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THE BRIDGE

Fundamentals of 3D
Spatial Design

| Michael L. Blackstone 8.8.23

PROPAGATION HOUSE | 2024



ONE CAN MAKE SPACE FOR MANY. WHEREVER TWO OR MORE
GATHER AROUND SHARED CALLING, THE POTENTIAL EXISTS TO
TRANSFORM REALITY ACROSS DIMENSIONS...

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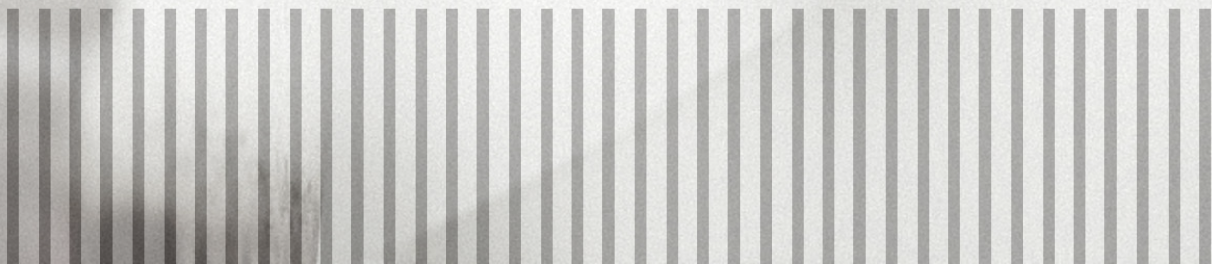
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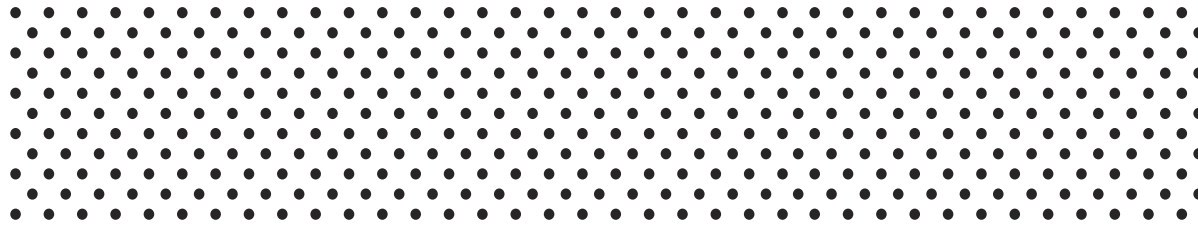
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Introduction:

I did not go to school for architectural design.

I discovered my calling for virtual environment & thought-space design out of necessity & organic progression. Growing up, I struggled to find social groups or spaces that provided the sense of belonging and safety we all intuitively sought.

The chaotic, overstimulating, often violent environments of my youth clashed with my disposition. Born mixed & brown in Ohio, often switching back & forth between parents & states... I found it difficult to find my "group" growing up. I never lived anywhere long enough to build a real social safety net. Layers deeper, In a polarized nation & state this left me at odds with well, everyone - youth & adults alike... Often for reasons beyond me at the time.

The majority of friends I made were often only kept as long as I lived in that area, rarely for more than a few years. Despite having lived in more states than I can count on one hand before leaving high school, I rarely met anyone who looked, thought or spoke remotely like me. I was constantly battling assumptions about who I was before I could just be there. This push often left me as the outsider... & an observer.

I both sought out safe spaces around me locally & began spending time envisioning & sketching my own ideas of dream spaces on paper as if they could ever exist.



For me, their existence internally was often enough to find a feeling of comfort.

I'd hold a feeling or thought first, then begin building visually around it.

A place only I could access, always available to me when I needed it.

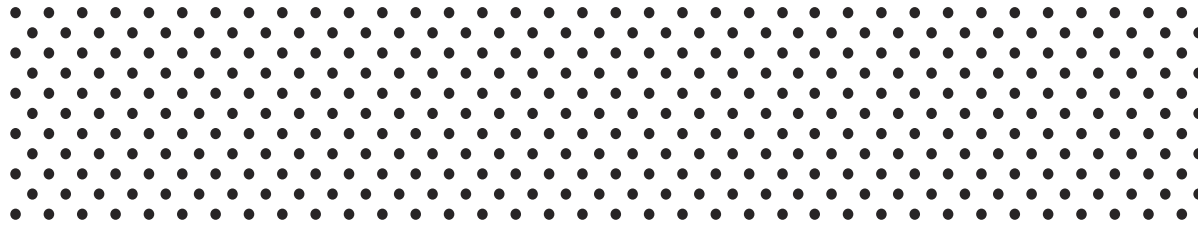
Overtime I began to find an aesthetic that would echo into my dreams.

There I'd go layers deeper, letting intuition take lead on what was built, the shapes contemplated or the possibilities of multidimensional logic in a world without the restraint of physics. When I woke, I'd do my best to create the same essence of those spaces in the form of shape arrays & literal sketches.

As a child I had no idea what I was doing - it was just something I liked to do.

As a teen this became a constant background process mentally & on paper. This understanding is what taught me to both analyze & draw the world around me, but also how to imagine entirely new ones, too. I don't think prior to writing this book even I thought about the depths to which this line of work is ingrained in me. This unconstrained version of architecture became the language for processing my life at a subconscious level. I can trace this practice back as early as my childhood after discussions with my father about visualizing thoughts & feelings... "a language without words" as a practice for problem solving by letting the mind's eye contemplate in a universal language that is felt, not spoken. As a child, this became a tool for silent awareness of myself & the world around me.

As the years passed, this internal method of visuospatial contemplation became the vehicle for shaping multidimensional realities.



This mechanism of visualizing what I felt internally & giving it a container to process taught me how to recognize my passing thoughts, anxieties, fears... how to compartmentalize them, analyze them & eventually let them go or construct a path forward psychologically despite the challenges.

I don't know if my father really knew what he did when he taught me this method of introspection as a youth, but it has guided the direction of my entire life up to this point, both directly & indirectly. Decades later: what he really taught me was how to create a consistent language for personalized thought-spaces aligned with my needs & modes of thinking. How to deconstruct a thought, feeling, problem or idea & reconstruct it as something of value. I attribute this entire practice to that single method of introspection, grounding & communication; alongside help from additional masters during my time on this path. Beyond internal methods of healing, focus & respite I believe there are more direct ways to leverage it for the rest of the world.

These applications of thought are what brought me into this career.

I think there is a massive level of growing division within our nation (the US) that stems from assumptions & generalizations that could easily just end, if the individual chooses to drop them. Throughout the years it has become my firm belief that wider culture starts with the acts & gestures of the individual.



So many of us are playing morality police online in 2D, keyboard warriors behind screens waiting for someone to articulate themselves the wrong way or expose themselves as ignorant in some fashion or another.

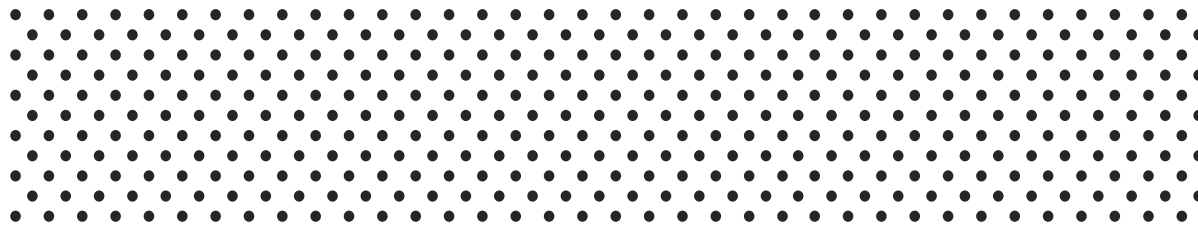
The problem here is that within these 2D interfaces there is a human disconnect. We're running social media platforms on a fuel of envy & endorphin highs based on self righteousness & debate.

Rather than leaving room for clarification or new dialogue, we publicly crucify each other the moment an opportunity arises for us to do so. Social media users have become addicted to this, by design, for profit.

So many Americans, so many humans are so similar- the veil of difference between us exists only in archetypes, soundbites & cable conglomerate media opinions positioned as fact. I do not think the average citizen yet understands the depths of the game of targeting & attention being played.

The more time we spend divided, the easier it is to control the mass outcome institutionally, globally. The more time we spend "engaging" with each other online through social media discourse, the more profit is made on these platforms & the more concrete becomes the narratives being tested, copied & pasted within their comment sections, later being hyperfixated on via cable television or worse, manifested through violent outbursts that now all too often terrorize the walking world.

I'd suggest the human element of empathy & connection is what's missing within these platforms, breeding the illness & ignorance that is manifesting daily within our nation(s). 2D interfaces without room for natural inference or clarification sealed in an algorithmic vacuum of toxic individualism have destroyed our recognition of humanity in each other.



We are being programmed at rates
exponentially more vast than any other time
in human history.

This should not be understated.

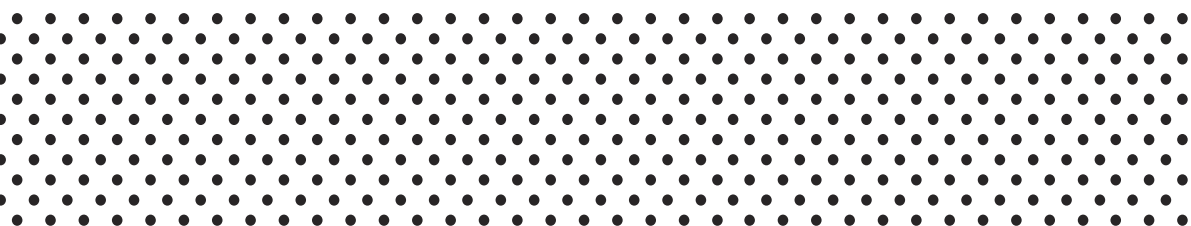
The effects are still being documented & I do not personally believe many, if any of us
will ever be able to "catch up" psychologically with the technology we are creating at
an exponential rate of advancement.

I don't think condemnation or full rejection of technology is the answer either.
At this stage we can only make genuine attempts to retain human values
guided by holistic use of it's existence.

Being in such a polarized nation, being born quite literally in the middle, I've grown
up with a unique perspective on how we see each other. Mostly though, I see the
trap we continue falling into: we believe we're different, & we believe our paths have
decoupled. There is no us & them, we are human beings on one earth. The reason we
haven't transcended this is because we are being programmed to both argue & suffer
for profit.

We haven't learned how to hold safe space for each other to acknowledge how we got
here. The longer we deny the reality, the easier it is to perpetuate, expand & evolve
it's current state in away that is more deeply rooted than skin tone or nationality. The
more time we spend apart, the longer we deny our present & past- the longer we will
spend in a dystopia where technology is already present to lift us up collectively.





We must remember to recognize each individual as an individual first.
Culture is becoming more & more globalized:

Now the individual can influence the masses beyond borders.
With the digital age, "culture" carries new weight.

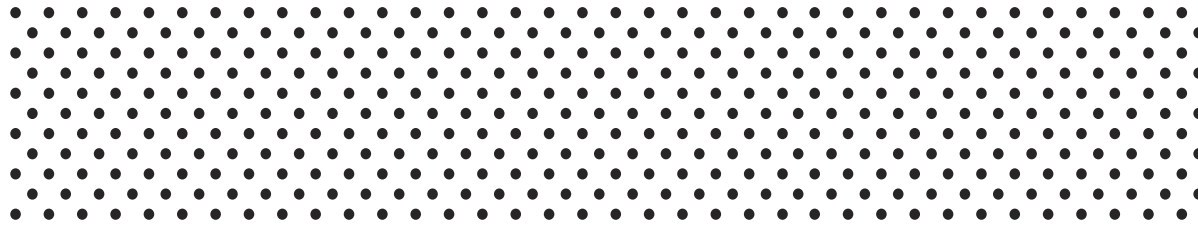
I believe that underneath everything,

my drive to create spaces in both physical & virtuality stems from a desire to
provide safe spaces for others I wish I had found earlier on in my life.
I am constantly emphasizing that virtual space is not a replacement for, but an
expansion of reality. I will always state the importance of loving where you live,
but at the very same time:

Locality has it's limitations.

Beyond the more personal aspects of my life in regards to my perspective on
design- there are other influences that guided me here before I recognized
their full impact: Parkour, Outdoor Photography & Urban Exploration.

The same yearning for safe spaces sent me out into many of the localities
I was in to find hidden zones I could make my own. If not for a moment, an
afternoon, late night or early morning. Growing up, the higher I could climb
the safer I felt. In cities it felt like the only private or quiet places to be found
were on rooftops. That desire for freedom & the satisfaction of completing
hard climbs, leaping alleyways & finding newly marked hideouts became an
obsession.



I loved graffiti, but I loved the architecture too.

I can't deny the number of times I've defaced public property with markers & spray paint as a 9th & 10th grader, but ultimately I found more satisfaction in creating pieces that left no impact on their environment. Even then, if I could have afforded it I'd have resorted to projection mapping. I wasn't satisfied by writing a name over & over again in paint in a way that caused a financial/legality issue... Instead, If you found the same area or walked the same path as me you could find my work - but in the format of something you could take home: stickers, notes, folders full of sketches hidden somewhere dry or hanging from a branch or post... all anonymously.

Ultimately I didn't want to damage where I was, just be there.

I enjoyed the process of getting somewhere few could reach more than I did leaving an artifact or proof of my being there. I loved being able to see city blocks & buildings from different perspectives. I'd sit & sketch, eventually photograph them. I learned to gauge scale by eye because often, my life depended on it. I loved being able to see the natural pathways people took, the regulars of locations that I'd often find sitting on the same stoop or leaning against the same alleyway, smoking the same cigarettes, usually completely unaware of my perch above. Often it felt like the inhabitants of these spaces were mere accents to these buildings, having churned through so many lives before them - walking the same paths, leaning in the same doorways, sitting on the same stoops. Echoes repeated but unseen by those living through it in the moment.



Architecture holds a visage of time.... impermanent, but articulate in a way no poem or writing can express. It must be seen, felt, discovered.

Looking back the cat & mouse games between construction cranes, rooftops, alley ways & various manifestations of security with fellow athletes were some of the greatest nights of my life, nights that introduced me to some of my first lifelong friends: but realistically I know if I had been caught even once, my life could have looked very differently before reaching eighteen.

Despite having survived the more impulsive phases of my teen years: I really owe this area of understanding entirely to what eventually became "Parkour". Another community & aspect of my life hadn't recognized as so fundamental to my evolution as an artist & designer until recent years.

I ended up spending a large portion of my life analyzing public space, scaling architecture & analyzing their design for pathways, security flaws, cinematic & photographic lines of sight... missed opportunities along the exteriors that created hidden refuge & shared checkpoints in dense cities. My friends & I weren't into shopping & parties... anywhere we went, it was to visit new gyms, show up for international events, challenge ourselves & explore. My first nights & mornings in New York were spent in sleeping bags on rooftops. I developed an intuitive understanding of architectural essence & aesthetics through first-hand experience scaling & moving through structures from all over the country, often in the dark.

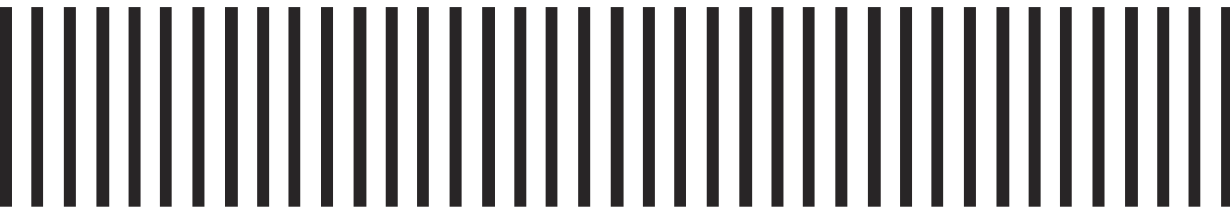
This granular, embodied spatial cognition would later prove invaluable. Hands on experience with architecture became the backbone of my design understanding. So much of the knowledge I have about structural aesthetic, flow & interaction was earned through blood on concrete, broken glass, various types of roofing & stray shards of metal.

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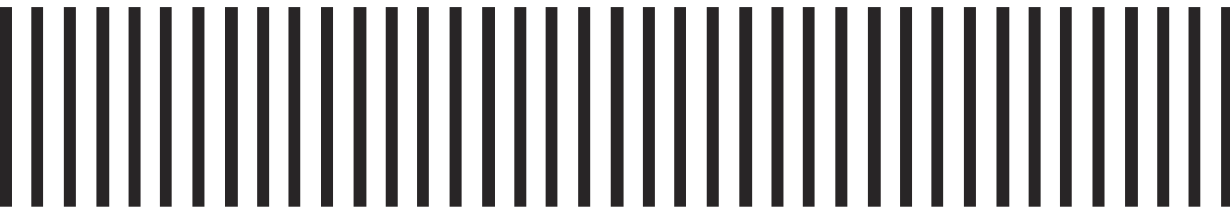
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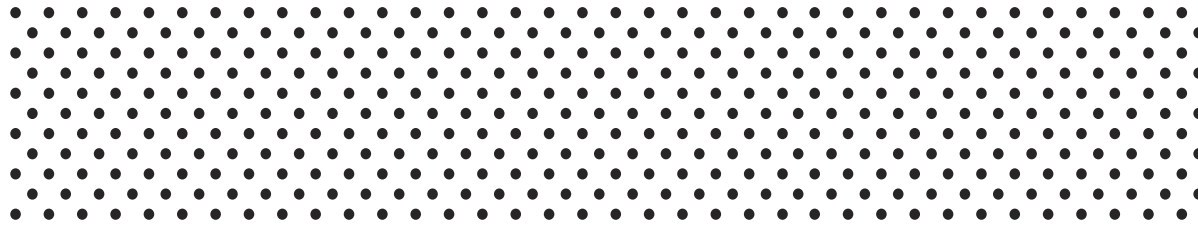










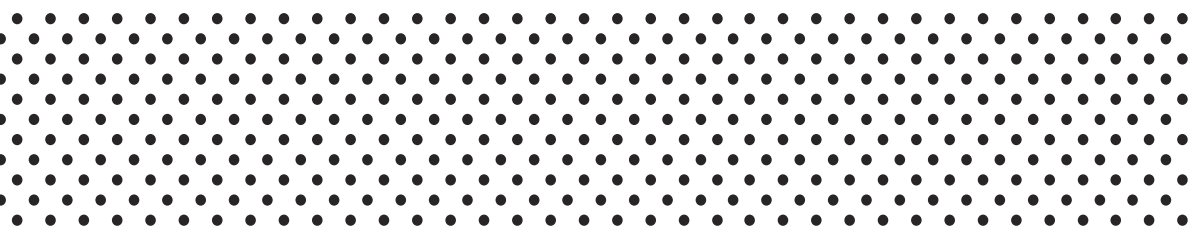


Where we've cleaned up our presentation online over the years to match our evolution & focus, our work continues to reflect our roots in outdoor recreation, movement lifestyle & urban exploration. When I started "Parkour" in 2008, it wasn't a conscious choice to help build a movement- it was just something I was genuinely interested in & had a love for. By the time I was 18 I had already aided in both creating & coaching programming on both coasts of the US for all ages.

It wasn't until gyms started opening up in the state & our local school district began working with us to open afterschool programs that I really began to understand the gravity of what had transpired: A vague, niche discipline had found roots internationally with a broad recognition of it's existence & desire for integration with it's youth, recognizing the values that created it's foundation: curiosity, risk analysis, self determination, equal access.

By this time I was 20 or so, transitioning from coaching parkour to doing photography full-time, my original goal as an 18 year old leaving high school... though I never left the movement community. By now I recognized the power of the common ground it provided. Across age, language, gender & tax bracket: movement & self improvement allowed for a framework for people to interact & communicate beyond language. Movement & shared space became the catalyst for connection. Because of this, having already created afterschool programs & having taught hundreds of youth in our locality, I managed to get in front of the city council & propose a parkour training location. Dozens of meetings, on-site discussions & a few years later: we managed to manifest a \$200,000 allocation for Washington state's first parkour "park" - Now built from concrete, steel & earth adjacent from the campus of our local community college. We still consider it a "training" area, but semantics aren't necessary, the impact is what mattered here.





This is where the story begins to overlap. By the time this park manifested, I had already found a career in photography & advertising. I spent years outside, initially hitchhiking & train hopping across, up & down the coast working to build my portfolio & acquire needed camera equipment piece by piece.

There's actually a large misconception of who I am for folks who haven't followed my work prior to virtuality: I am deeply rooted in living in harmony with the earth. Being outside, retaining an active lifestyle, observing & doing our best to protect nature are fundamentals of my existence. It's what drove my interest in becoming a photographer: an excuse to traverse landscapes & interact with them firsthand. This is still something I love & will always stand by: Nothing will ever replace the benefits of time spent outdoors, harmonizing with our creator.

Where I loved that photography afforded me the ability to spend the majority of my time outside, there was a dissatisfaction in the necessary sacrifice: a constant filter turned on for the ability to extract from my environment, not add to it. Where leave no trace provided a moral ease, the constant requirement to search for a productized version of beauty, or worse, to take a beautiful natural space & leverage it commercially.. making them ultimately easier to find & easier to destroy through carelessness & tourist types left me with a sense of unease that is hard to describe. Living through a lens was what initially granted me a sense of real freedom in life, but after nearly 10 years it began to take it away. I loved being outside, but I couldn't just be there anymore. I didn't like that after finally reaching these beautiful locations, when finally arriving at a one in a million moment of light & time in **this** reality... I couldn't be present for it.

I had to witness these moments through a glass box to afford being there.





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2016 | GREAT BEAR RAINFOREST, BC

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ORIGINS PARKOUR, BC

2017

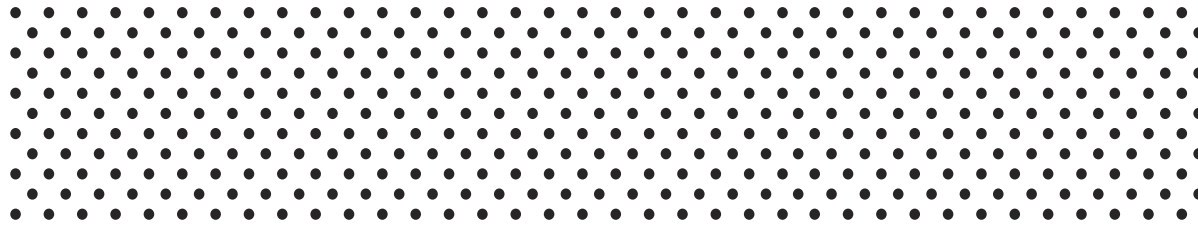


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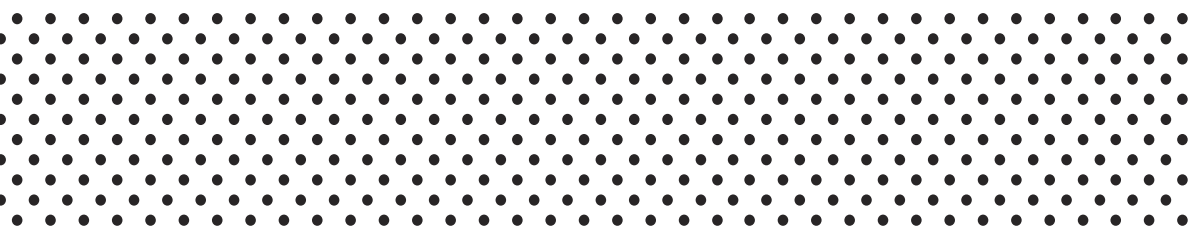


I still loved what photography initially provided for me, a new way of looking at things- but it was becoming the theft of my ability to feel present in the world & interact with it in the way I really wanted to. After spending time in the Great Bear Rainforest & on the coast with the Nuxalk & Heiltsuk people in 2016, this was made more apparent to me than ever. They showed me a way of life that I had been searching for since my youth... but it clashed with the world I was in.

They taught me that sacred space wasn't something you always had to find, but something you provided out of necessity when the time came. Hearing the last fluent speakers of a language speak- they taught me the importance of preserving culture & heritage in a way that can be documented and repurposed as tools for teaching future generations. Documenting their youth programs, they showed me the power of open access to information with patience & unconditional love to all who engage from a place of genuine interest. Sitting with a line of mask makers, they taught me about how a single piece of art can transform into a transcendental platform & tool for the healing, teaching & unification of many.

These people, so integrated with their environment & the ways of their ancestors through thousands of years of time unbroken, yet so completely aware of the world we're in & the realities of the futures we face today. It confirmed to me that there were better ways to be of service as a creative... more importantly they offered a community & newfound home to return to if I ever decide all of this is too much. Coming back into the US I knew I wanted change.. but I didn't know what that looked like yet.





Thinking about it now, it was also the year I experienced virtual reality first hand, for the first time: A late evening in the Blanchard neighborhood, Rainier in hand, Chris clicked a small blue button tethered to his rig that audibly turned on the motion tracking boxes now whirring overhead, one against the back wall facing west overlooking the bay, another drilled into a long wooden support beam that separated his kitchen from the living room.

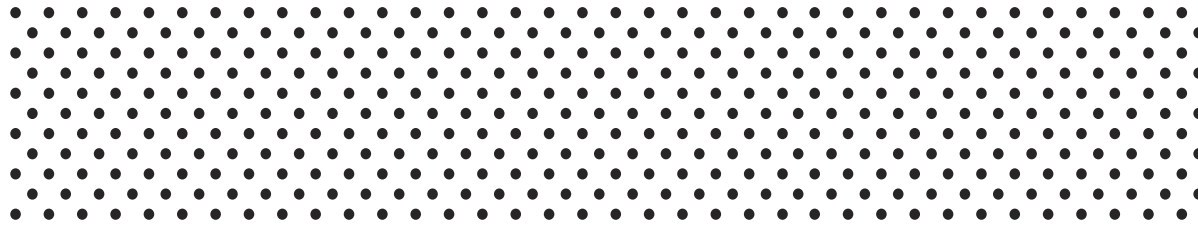
His PC was plugged into the wall on an entertainment center sitting under a widescreen tv between two speakers & a subwoofer any American dad would die for. I kept asking questions rapid fire one after the other about what virtuality was like- he kept laughing and told me to shut up and take the headset from his hand.

"Pavlov", an online PvP shooter came first & gave me a rudimentary understanding of what the future of virtual space could look like. It really wasn't much- but the sheer shift of dimensions upon donning a headset was enough to recognize what it could be. Movement wasn't great, the experience itself, really not much- but I could really see into the space. Despite lackluster fidelity, I was there.

Of all the films watched, deep dives on the internet for strange experiences & games Chris & I had played together over the years in this very same house after meeting in 7th grade: I don't think we'd ever experienced technology that truly felt magical like that.

Our eyes were wide, a new world was open.

It wasn't perfect, but science fiction was becoming technological reality.

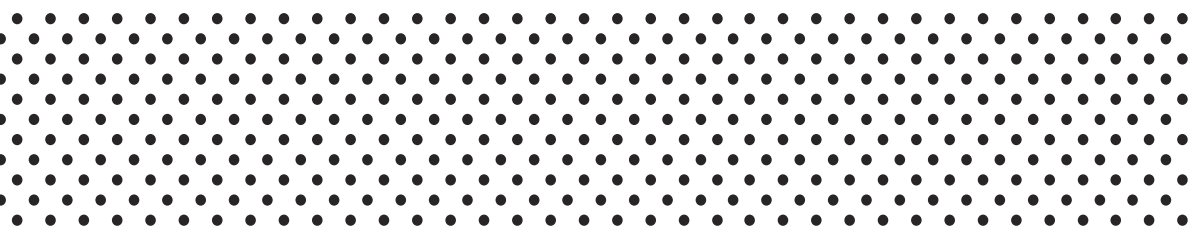


Then Tilt Brush was released shortly thereafter - exposing me to the raw potential of illustration & general ideation in 3D space. It's worth noting the only reason I could even have this experience at the time was because of Chris, now our studios main editor & his Father, Christopher Senior. This mans personal interest in new technology provided a living room laboratory that singlehandedly altered the entire course of my career. Virtual reality & gaming PCs were still something well beyond my budget. This experience though, did begin to drive my serious interest in virtuality as a medium for art... beyond DSLR imagery or static 2D media.

As an artist, this opened quite literally, an entirely new realm for me. Having grown up with a computer scientist as a father & gaining early forms of independence around the time of dial-up, I have always been able to innately understand various interfaces, software, hardware & the like. This was something I always understood but hadn't taken seriously as an area of focus or potential career path. Already having grasped the concepts of photography at a professional level through the outdoor recreation scene, I began shifting away from natural focuses & moved back to the east coast to try my hand at fashion & technology as a vehicle for further learning & networking around these new areas of interest.

I needed room to focus the camera on something else & reintegrate with being present in the outdoors when I was there. This shift was gradual, but within a year or two led me to my second real interaction with virtuality through a private media tour with NASA JPL for the launch of the Mars Insight mission at the Vandenberg Aiforce base in Lompoc, California May 5th of 2018.





In one of the hangars a few days prior to launch, they were demoing the Microsoft Hololens for a true to life size, 1:1 representation of a Mars geographic location alongside a view of the new Rover headed there on the soon-to-launch Atlas V rocket, a new champion of the space industry.

At the time, this was state-of-the-art technology... & it again confirmed to me that tangible art would always remain priceless in it's own right, for it's own reasons: but digital art, digital space & a strong data connection could really transport us, eventually our awareness, to other worlds entirely.

This was presented as a tech demo: I saw a beautiful work of art.

The other part of this story that is humorous but also deeply connected to the shift of my career path winding up to today: I never even got to put the head-set on myself. During the event I was on crutches with a cast on my right leg.

One cold morning only a few short weeks prior, coming back from a hike at Glen Onoko Falls, a place I had mocked for years regarding the amount of signs about it's difficulty for east coasters who'd never seen the backcountry... I stopped to sit on a rock over the water for a half an hour or so. This area was one of the only quiet places I could find nearby, still, with remnants of the highway groaning in the distance... but I liked it there and visited often.

Sliding off the rock back onto the ground, maybe three, four feet- nothing wild in context to my lifestyle at all: I landed with what sounded like a hard slap on the rocks surface. It was my heel. I faced a full achilles rupture. Luckily it was early morning, climbing back out of the woods on three legs like a dog was a completely private ordeal with no one around to hear or see me. Getting back to the car & into a hospital: Surgery was required & I knew internally, my time as an athlete & outdoor photographer was up.

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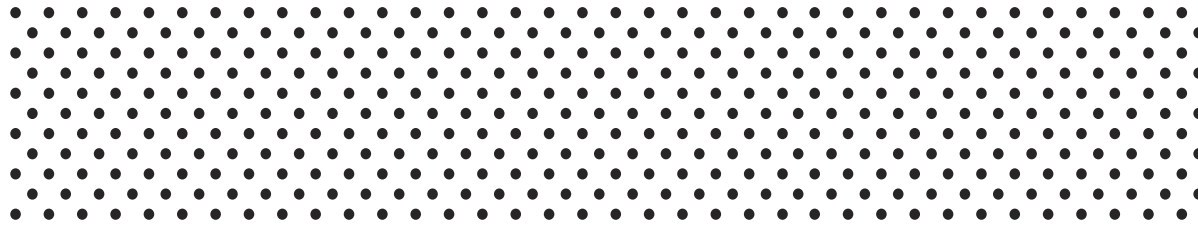
2018 | NEW YORK



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Even if I wanted to keep going- it wasn't going to work out that way.

These two moments, only weeks apart - became the catalyst for the next 5 years of my life. Learning to walk & rebuild my right leg again I worked as a bartender in town, but there was no way I could get back out & carry weight, run or jump again like I used to. Despite the success I had finally built up as a photographer in the industry, having finally come into contact with many of my dream clients... I had to give it up. My life had to change. My interests in movement could be sustained, but not at the intensity I was accustomed to. I had to find a new interest and build a new career path. I didn't know what that would be yet, but I knew I wanted to try "Art."

Working weekends & a few nights a week behind a bar in Easton, Pennsylvania I saved up enough money to fly back to the west coast, find a place & begin ordering parts for a new computer that fit the specs of my new needs. After finding another job behind a bar back in Bellingham, Washington I managed to finally acquire the needed gear for the time & ordered the first headset of my own, a Vive Pro. By this time it was 2019. The moment the headset came in I installed Tilt Brush & got to work. I didn't have a clue what I was doing yet, but was enthralled by the potential & fluid satisfaction of choice making that can only be experienced first hand in virtual space. The keyboard was gone, the screen was gone... I could stand up, use my arms & the motion of my body to create new pieces... for an artist so rooted in human movement, this was liberating beyond measure. I could never sit in front of the computer for 10-12 hours to create the same type of work I could create in 45 minutes by hand in virtuality, intuitively. I could spend nights on research, trawling the web & sponging new information, tools, etc- but I didn't have the kind of focus needed to create art in 3D modelling programs at the time with mouse & keyboard.



I'd suggest that even now, if full virtuality wasn't an option,

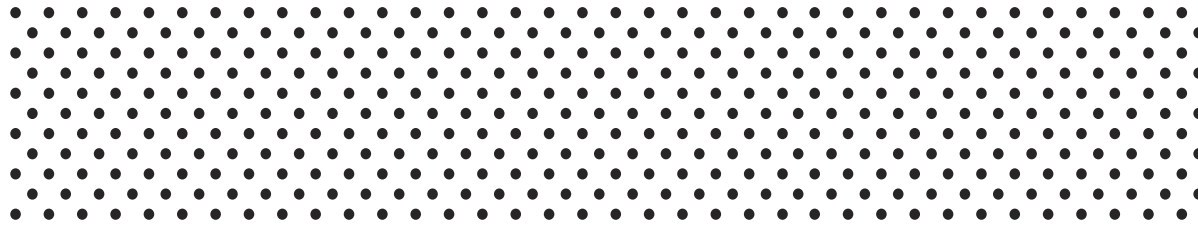
I wouldn't be in this line of work.

Through necessity I understand & am fluent with all of the tools we use that require a 2D interface today (unity, unreal engine, blender, etc), but I don't like them. There's a disconnect between idea & time to tangible concept that I can't stand. Virtual reality headsets & interfaces fixed that issue for me & today I'm incredibly grateful to say that I've been working as a virtual designer full-time for years. This didn't happen overnight though. When I began creating art in 3D I was more focused on illustrations, graffiti style typography & surrealist designs in general. There was no initial intent to become a host or "Architect" in virtual space. It wasn't until I began spending time online in PCVR platforms like Neos & VRchat that I began truly coming to understand the implications of public, shared virtual spaces.

Still, this wasn't something I thought to build a career on... though I immediately took an interest in finding ways to export my personal works in 3D into shared, public spaces available online. At the time it wasn't as simple as opening a web browser, requiring an expensive computer & rig to even access.. but it was where I wanted to be.

It was the only way I could articulate what I wanted to articulate & actually stand in front of, or in it myself. I finally found a place where artists were creating works & entire experiences that truly resonated with me. Every night I dove through the net I found another inspiring location.

Nothing will ever replace being outside in natural lands with one's back against the earth... that being said: this was an entirely new universe.

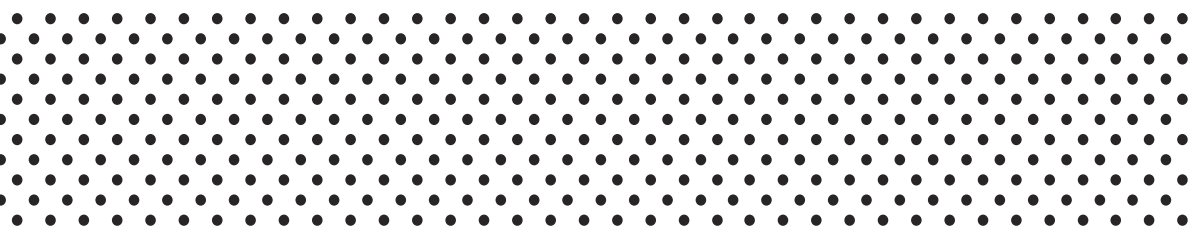


Stranger still, this wasn't a game, either. Just social, shared space. Places to.... just be. Alone or with friends. Privately or in public servers where strangers were about, running through the halls of lifelike pubs, fields of open landscapes & sitting back for casual discussions in the booths of not-so-secret cafes.

The early days of social VR were a wild west of experiences that could, without preparation - easily generate overwhelm. Once a user finds their "legs", they come to realize the underscoring truth behind everything we discuss in the Bridge: people were beginning to create & continue to create an entirely new dimension. An intangible reality layer with tangible effect on our daily lives, from leisure to industry, science & research. Eventually I was introduced to my now good friend Travis. We met through an acquaintance in one of my spaces in virtuality & he emphasized the value I might find on a platform called "Spatial.io". He explained that it wasn't quite the same level of fidelity or immersion as VRchat at the time, but it had an entirely different focus: Art productivity & business.

Where the PCVR & undernet community was quick to consider creatives transitioning into the public eye at the time "sellouts" & any other number of names niche groups call those who invite mass adoption of something new- there was a real avenue for sustainable work & income through engaging with the platform & it's userbase. Around the same time, the Parkour park mentioned so early on here was finally in it's last phases of construction. The park was on the verge opening to the public. This was August of 2020. This is where the story comes full circle as I began to fully internalize the power of galvanizing a community by offering shared space & common ground.





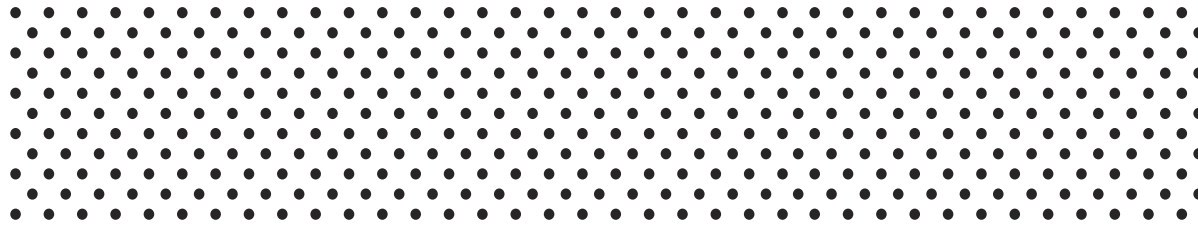
I posted a clip of our park on Facebook premiering first views of it's build- spotlighting my old friend Colin Macdonald, who was referred & ultimately tasked with designing the final park structure for the city. Overnight the video got thousands of views & I woke up to phone calls from members of city council asking us to take the video down because visitors were trying to enter the park before it's official public open.

Where we apologized for the miscommunication & quickly put out videos clarifying the park was not yet open- we couldn't deny the awesome power of community interest on display. Shared interest, common ground.

After years of laughter, head scratches & initial confusion: our small community of parkour reached international awareness with international landmarks scattered throughout the globe. Suddenly, we had one of our own, backed by the community, right in our backyard. I don't think I realized the gravity of what I was doing the first time I stepped foot onto the floor of city hall- I just knew what I wanted, why it was valuable & how easy it would be to implement. My keywords were equal access. The result was a city landmark with free bus fair for the youth to get there.

This was the moment that I truly understood the value of shared public space & what it can do for those who access it. Something that started as an idea manifested in stone. By this time I had a firm grip on creating in VR, from illustrations to architectural concepts. Where I started with art & surrealism, social VR showed me the potential of shared spaces & architecture online, so I started grappling with those. After the opening of the parkour location in the physical world, I found a new level of inspiration for providing these platforms of common ground & went all in on architecture & experiential design in virtuality.

This was my new path.

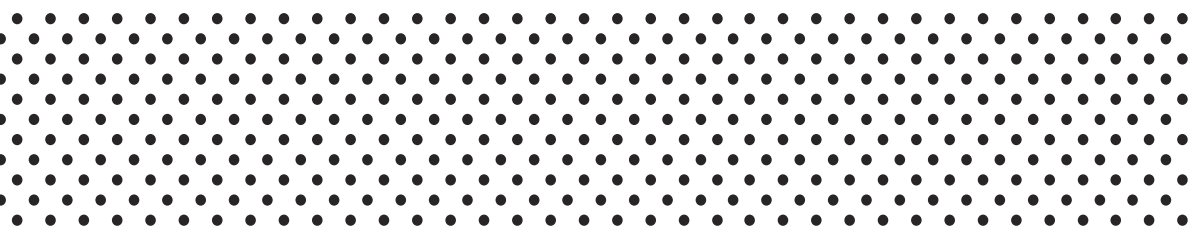


I couldn't manifest a city budget or wait around for 4 years every time I wanted to offer something to a community- but virtual space transcended those limitations. Entering Spatial.io for the first time, I had dozens of builds & locations under my belt through time working on spaces in VRchat with Chris. The new challenge was in optimizing these spaces to be under 60 megabytes with a tight cap on triangles (in regular words this means we had to go from expansive & unconstrained for PCVR users to extremely small in scope & extremely tight in packaging to work for web browsers, mobile phones & the first wave of mobile vr devices hitting the market). Where I had to sacrifice layers of fidelity, I found an entirely new type of community in this business to business, artist to collector atmosphere.

Where experiential overdrive ruled the intense lands of VRchat, Neos & PCVR, productivity & holistic networking spaces were extremely popular here. I was beginning to lean this way, but the early stages of Spatial.io proved to me that a professional side of virtuality was emerging & new opportunities were manifesting for designers with a sharp understanding of how to create these spaces.

Propagation House, my original brand: went from outdoor photography & film, to technology & consulting, then virtuality. I never changed the name of my business because our mission has always been the same, whether I realized it at the time or not. There was a long period of "what are we really doing here?" Long periods of uncertainty, self doubt, wondering when it would all connect. Eventually it did: artists are providers of Common ground through sharing their work, starting discussions & giving others permission to be themselves. Creating room for ourselves allows us to create, our creations provide room for moments of both introspection & external dialogue.



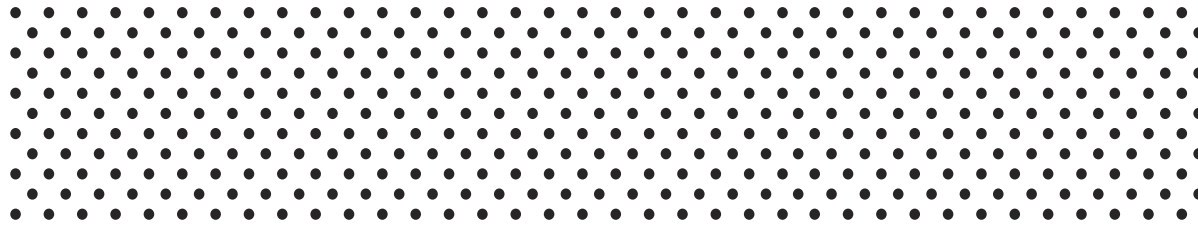


Each piece provides a platform for personal & shared experience & dialog.
As a photographer I thought this was limited to creating scenes & bringing
back stories through true-to-life documentation.

I thought to be a photographer was to be a witness: I learned with time that
regardless of what they're exposed to, people perceive most everything
internally first. What they see & react to is often beyond the awareness of the
original creator... Often peoples responses to art are entirely personal- but the
art provides room for those responses to be felt & dialogues to be opened.

Our pieces can be made just for us, but when they are shared, they become
platforms through the sheer act of offering them into public space. Each
piece becomes an intersection without borders of language or distance. The
only thing that's changed are the tools we have access to articulate & act on
that understanding... for the better, at scale. I'm grateful to have had a natural
progression through all of this without thinking the digital world overrules the
physical- that one is less fascinating than the other or that they are in any
sense, separate at all.

This winding path from a life in nature & physicality to one of technology &
virtuality could have tossed me into traps of vague obscurities at any point...
I was lucky enough to be born in a time where all of my interests could
intersect in a way that guided me naturally & now resonates with others.
I think where there are still age old, organic practices for accessing
awareness of higher dimensions & modalities of thought with protocols for
doing so being designed in every corner of the ancient world- this new
technology comes very close to providing a reality that so many have dreamt
of for ages: A "field" where none are bound by distance, time or physicality...
A place where we can access each other in our essence in an
instant, a place where we can fluidly transition between dimensions
& identity... I would argue that time has come- just not in the esoteric, lofty,
borderline occult manifestation so many expected.



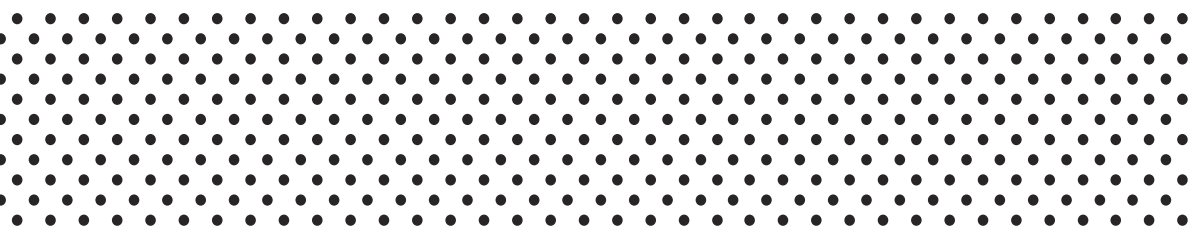
Where I still take great interest in the spiritual philosophies & practices of the world, I think it's important we make these tools, spaces, technologies & their potential available to all in a way that is tangible, accessible & holistic in nature.

The currency of our time is attention. It's catalyst: Interest. This is why I began to focus on designing virtual thought-spaces full time. Where many creators, brands & organizations are finally coming to recognize the power of producing media around their areas of focus, the next step is in providing space for their audiences, students & customers to connect in shared, contextualized locations. I firmly believe that virtuality has already become an additional option akin to a phone call, but the implications are more complicated.

In providing this layer of reality we must be conscious in doing so. With the power to uplift comes an equally strong power to polarize, extract & manipulate. I believe that the core key to designing virtual space is to be cognizant of the visceral undertones it can provide: these spaces hold a new type of power. Like physical space, they have the ability to impact us at a neurobiological level. The difference is there are zero constraints in molding these realities- the only blockades in place being creative strength & technical knowhow.

Beyond trends, we must create spaces aligned with authentic human needs and dignities. Our environments awaken presence for those inhabiting them by guiding minds from overwhelm into flow. They provide catalysts for imagination, learning, productivity & human connection. This book shares guidelines so you too can begin manifesting external spaces that uplift and empower.





Truly, the art of virtual environment design is one of creating something from nothing: I'd call that a form of magic.

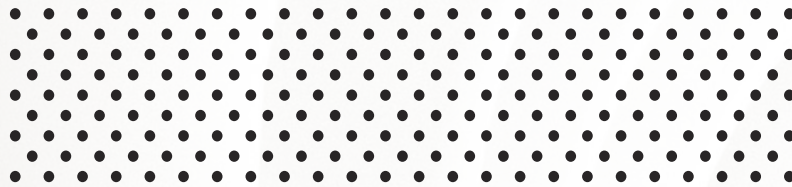
Taking a fluid idea & making it tangible. Taking intent & giving it form. Where many of the same attributes can be applied to traditional architecture, in virtual there are no rules or limitations of resources, only raw creativity, implied logic & intuitive, accepted senses of cohesion. We call these locations "thought-spaces" because they are quite literally static embodiments of personal & group thought. Interest can be given both form, and now forum. Now art, just by being, can become a transcendental platform & container for self expression, open dialogue & shared human experience. Articulations beyond the constraints of physicality... Thought-spaces represent the next wave of common ground - persistent cultural intersections unhindered by distance or time. They channel collective aspirations into multidimensional, evolving monuments of knowledge, innovation & unity. In the space between space exists an infinite number of spaces more- within webs of individual thought surface landmarks of shared interest & intent. The shape of information is being rendered as shared space for human connection.. a second layer of reality where knowledge is currency & interactions between minds creates real world impact: locally & abroad.

Wherever two or more gather around shared calling, the potential exists to transform reality across dimensions.

While technical skills amplify possibility, we focus here on the timeless creative fundamentals accessible to all who feel the call. My aim is to inspire you to likewise transform spatial design & digital habits into a personalized ritual of transmuting thought & feeling into form. If this work resonates, you may uncover internal landmarks longing for outward expression just as I did years ago & continue to today. My hope is that in these words, you too recognize the multidimensional potential unlocked when our innermost environments find external bearings through creativity, practice, care & generosity.

THE BRIDGE

Fundamentals of 3D Spatial
Design | ∞ | Michael Blackstone



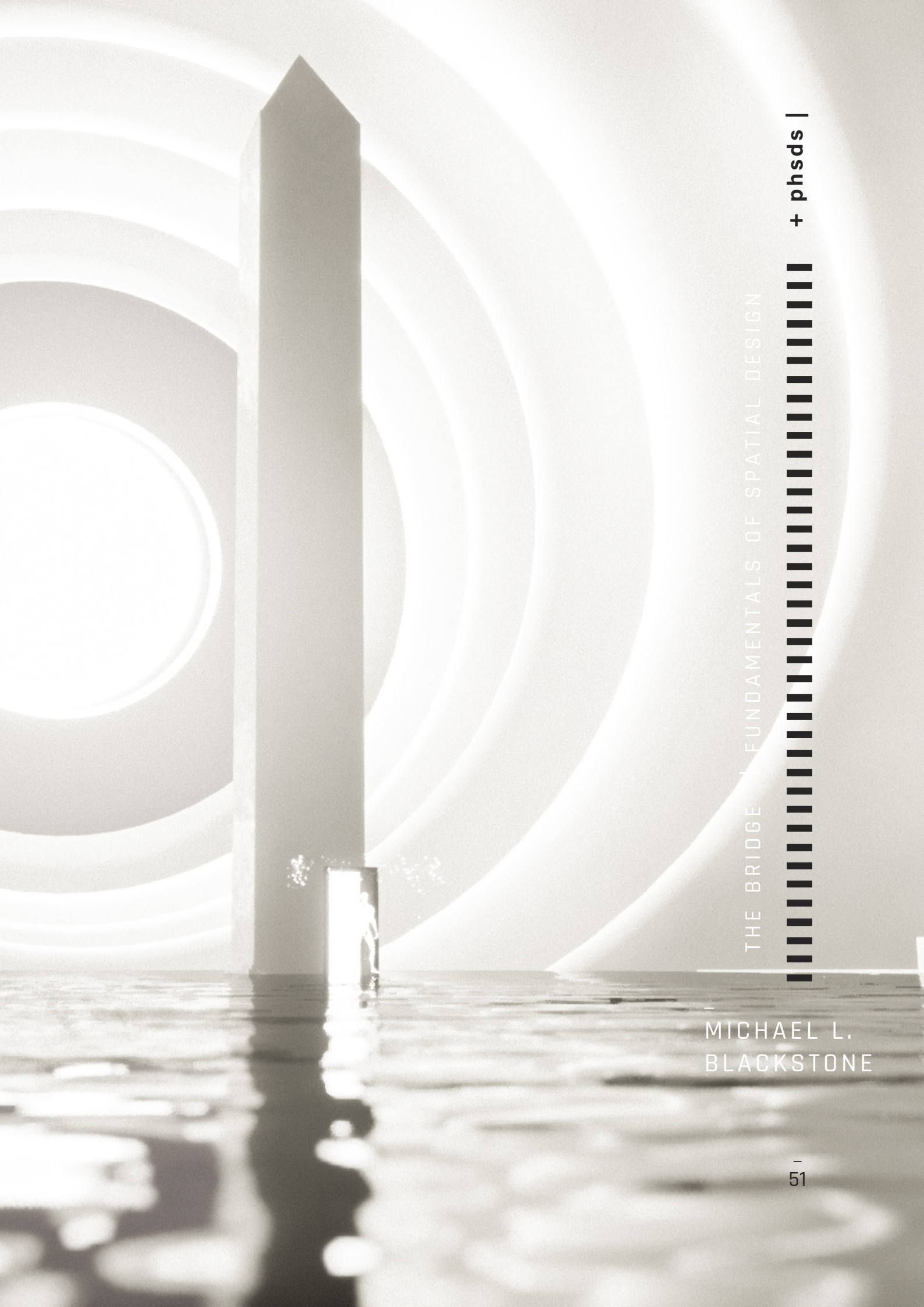
AN EXPANDED DOMAIN:

Before we begin it's imperative that we understand the vocabulary being discussed. What exactly is the spatial web? At a base level this is just the 3D expansion of the internet. Not a scrollable two dimensional window or page, but doorway *into* the net as a vast, strollable, ever-expanding landscape. At a transcendental level, this is the opening & formation of a new dimension:

A digital expansion of reality.

The evolution of the spatial web as it exists today provides unprecedented opportunities to build “Thought-Spaces” – persistent personal & shared virtual pocket spaces to connect, store, create & compute with our digital thoughts, knowledge & assets through time.

We had web *pages*, now we have genuine 3D web *spaces*. From flat operating *systems* to mobile, interactive, persistent operating *spaces* we can step into, interact with directly. Author Tiago Forte wrote a book, “*Building a Second Brain*”, that greatly impacted my view on controlled behaviors & learning processes within digital space. He spoke on how knowledge workers can benefit enormously by creating a reliable & trusted “external brain” to augment the limitations of our natural ones for expanded learning, productivity & creativity. But what happens when we expand them into persistent, interactive digital spaces, integrated with modern tools & technologies? **This is the art of 3D Spatial Design.**



THE BRIDGE | FUNDAMENTALS OF SPATIAL DESIGN

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MICHAEL L.
BLACKSTONE

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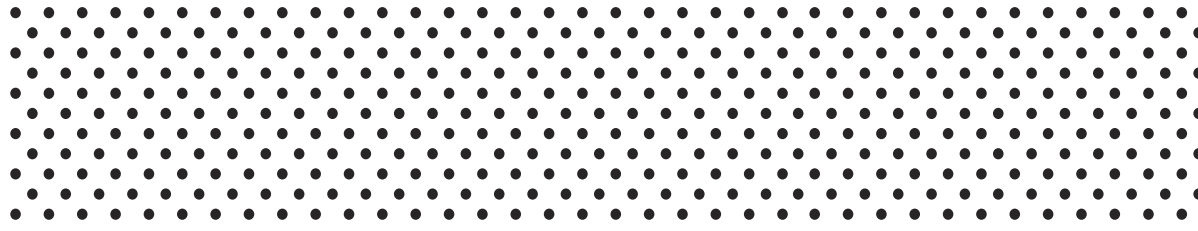




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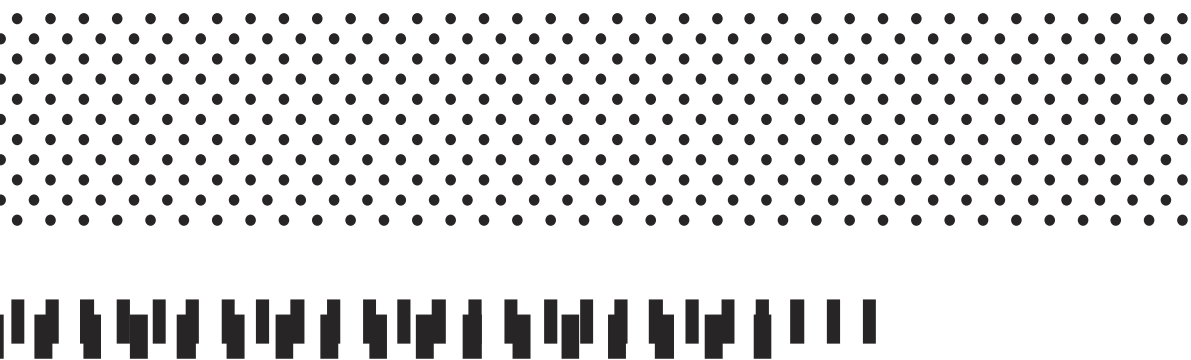


CAPTURING OUR THOUGHTS & EXPERIENCES

Persistent multidimensional locations allow us to powerfully extend this concept into digital "thought-spaces", pocket realms that accumulate value across applications, services, platforms & time. **Our second brains & their extended thought-spaces can become living extensions of ourselves.**

A core idea in Building a Second Brain is **capturing**: getting ideas & information out of our fleeting natural brains & into a trusted system. The spatial web massively expands our ability to frictionlessly capture ideas in many new digital formats. We can record voice notes as we talk through concepts, take photos & videos to capture visual observations, scan physical objects & spaces into 3D models, create virtual sticky notes that persist in our personal space & collaborate with others in real-time. **Anything we think or experience can be quickly saved into our personal corners of the web** - our capture ability is endless. With the proliferation of Head Mounted Displays, AR glasses & other wearable devices, capturing becomes effortless. We can save snippets of conversations, notes from books, footage of locations & more with simple gestures or voice commands. We can speak into the air & have our words sent back to us as coherent notation. Our ability to capture thoughts & experiences from our daily lives is being fundamentally transformed.. Beyond just transient capture, virtual space allows us to accumulate this data into persistent repositories of knowledge we can structure, analyze & reorganize...





PROGRESSION

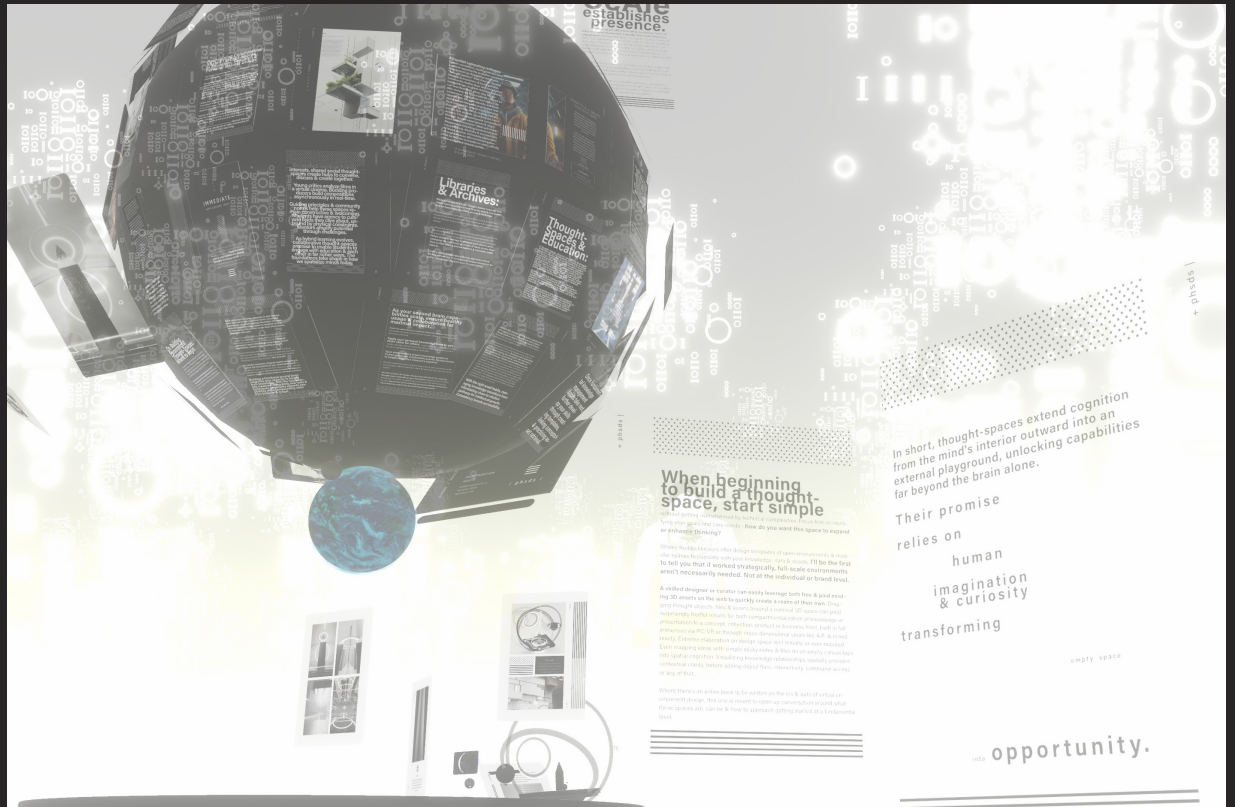


...It transcends the ephemeral nature of thoughts & observations that previously slipped away if not written down. Our fleeting mental inputs can now be made concrete in evolving digital spaces.

Curating Knowledge Into Evolving Frameworks

We can curate our digital assets, notes & content however we desire, with total flexibility. We can devise personal knowledge taxonomies using tags, links, virtual containers, 3D spatial arrangements, or displaying objects across persistent virtual landscapes. Our spaces in tie with our local & cloud based libraries allow us to craft novel ontologies that make sense for how our minds, brands & organizations work, far beyond what current siloed apps allow without an intermediary connector. We have complete curatorial agency over our aggregated knowledge, daily research & digital output.

While existing software forces us into predefined folders & rigid hierarchies, our thought spaces allow for fluid, multidimensional expansion with evolving curation frameworks. We can shape rooms reflecting mental contexts, arrange objects in conceptual clusters & link ideas across visuospatial canvases. **Our curatorial abilities are limited only by our imagination & the use case of the moment.**

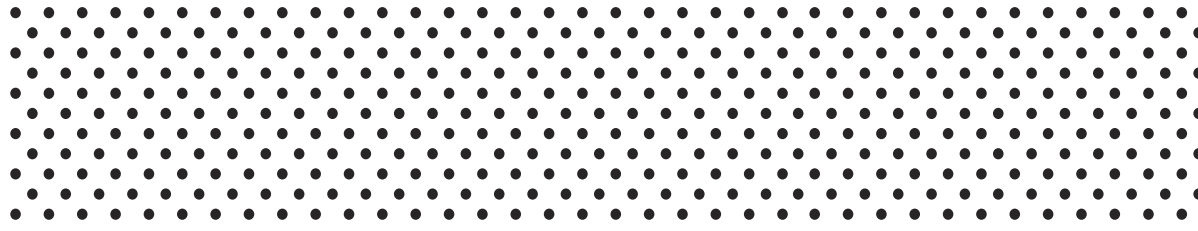




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Over time, the knowledge repositories in our thought spaces become **rich tapestries woven from our ongoing experiences, insights, research & creative works.** They transition from disjointed notes, files & web sessions into integrated lifelong learning landscapes that can be continually refined. Leaning into digital enables curation amplified & unbound.

Creating & Developing Ideas In Multilayered Ways:

The spatial web enables powerful ways to process, synthesize & develop the ideas & information we've captured & curated. **We can visually manipulate 3D objects, integrate AI creative & analytical tools, visualize non-linear relationships on meaning maps, hold meetings with collaborators in shared spaces, walk through evolving mental thoughts**capes & build entirely new conceptual frameworks.

Our extended brains allow us to create in multilayered, multimedia in ways not physically possible. **Existing digitally, they become living studios for thought development, design, writing, planning, & learning.** We can remix concepts in new ways, discovering adjacent possibilities through structured work & unstructured play.

The persistence of these spaces allows creativity & development to become continual, building on itself over time in a compounding way. **Instead of starting projects in isolated tools, we have persistent contexts where ideas, research, discussions & creative artifacts build on each other across years.** Our development is thus scaffolded and exponential rather than repetitive & siloed.



Connecting Knowledge Across People, Services & Platforms

These spaces can become portals where we connect knowledge across applications, services, devices, even other people's spaces. Standardized APIs & data protocols allow this cross-connection while maintaining user ownership & privacy.

We can draw from AI services, productivity apps like email & media tools, pooled social knowledge, & personal spaces of colleagues.

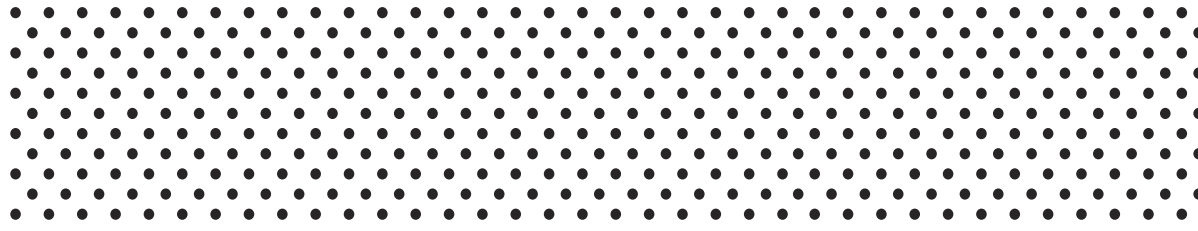
Our extended brains give us wings to synthesize disparate ideas & data into new synergies not visible in siloed systems.

The connectivity potential is immense, exponentially increasing the value by tapping knowledge from beyond just what we individually collect.

Our web-enabled second brains & their thought spaces become nexus points integrating both internal & external learning, creation & intelligence into personal systems greater than the sum of their parts that can be benefited by others beyond the original user/creator.

Computing With Knowledge For Returns On Learning

One must emphasize, this grows beyond simple storage – it allows computation with our accumulated knowledge. We can set our spaces & interfaces to alert us, summarize content, answer questions via conversational interfaces, even spawn AI agents to work on tasks on



Our extended brains become active computing environments that return exponential value rather than just passively accumulating inert information. We receive compounding returns on the knowledge we capture & curate within these persistent spaces.

We can ask questions of our second brains & thought spaces to receive answers based on connections they make across the contents. We gain an external thinking partner that augments our natural mental limits with on-demand access to our learnings, ideas & creations consolidated in one place. Our brains' computing potential becomes a lifelong cognitive amplifier. Aim the ball, let it roll & guide it's momentum. Do this & you've magnified the power of self in ways that take time & personal experience to fully understand the gravity of this shift.

The Path Ahead:

Our second brains can become living, value-accumulating extensions of ourselves that transcend what current technologies allow. They will allow us to achieve vastly extended learning, productivity, creativity, connection & computation. **Just as the smartphone took the power of computers from our desks to our pockets, the evolution of the spatial web, operating systems & AI will bring new dimensions of knowledge, thought & cognitive ability into persistent personal spaces accessible anywhere.** We are entering the most empowering phase yet of augmenting our natural minds & personal spaces. While promising for knowledge work, their greatest transformative power may lie in unlocking latent human creativity alongside new levels of aided curiosity. By reframing cognition as a multilayered process spanning internal & external spheres, second brains could reveal creative depths beyond what unaugmented minds can achieve. Consider how creative work is constrained by the limitations of physical tools and spaces. Canvas size, studio space, instrument range - the physical world imposes hard boundaries on where creation can occur and what forms it can take. Virtual spaces transcend these limits.

Freed from physical constraints, human ingenuity has endless digital room to roam. Virtual galleries can showcase architectural elements, sculptures & works unfettered by gravity, physics, material costs or shipping logistics.

Music & sound design can be woven into dynamic virtual rooms & sculptures that transform as melodies progress. I see **A time where neuroscience & real-time biological data informs generative architectural spaces adapting to users' preferred brain states.** By collapsing barriers between systems of thought, unprecedented creative fusion emerges. Run online, the interconnected nature of these spaces allows blending concepts & media from vastly diverse domains, spurring emergent creativity & synchronistic social interactions. Where physical tools & workflows induce domain silos, virtual worlds enable convergence across art forms, industries, academic disciplines & cultures. Virtual spaces enable rapid ideation by allowing instant reconfiguration: Any environment or object can morph to new forms or be replaced in seconds. This hyperplasticity results in creativity cycles orders of magnitude faster than physical workflows reliant on rebuilding prototypes & physical spaces.

Thoughts can be quickly translated into provisional virtual constructs to be experienced immersively. If successful, they are refined - if not, they are rapidly reconfigured. There is no cost to failed experimentation, only learning. **Where physical studios force careful planning, virtual spaces encourage agile evolution & relentless prototyping.**

At the individual level, multi-disciplinary artists & polymaths will intuitively blend their diverse skills & interests, manifesting convergent works not possible within today's constraints. **Shared virtual hubs will also foster collaborative emergence across creators from disparate backgrounds. The cross-pollinating potential is exponentially greater than in isolated analog domains.**

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POCKET SPACE III

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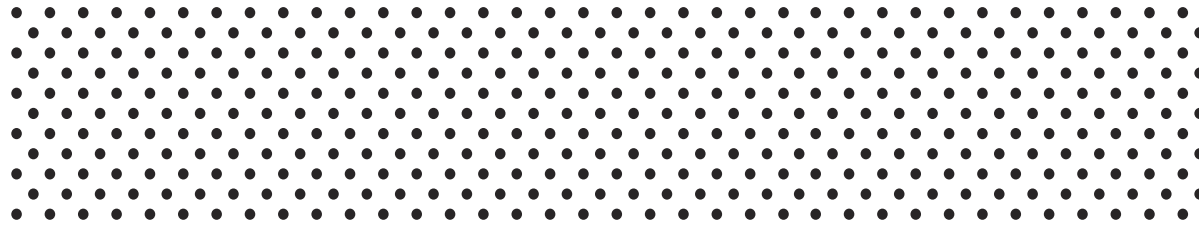




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Fostering Divergent Thinking Through Virtual Embodiment

There is an aspect of this that I can speak to from a personal level: Curiously, **despite their expanded possibilities, creating thought-spaces can enhance creativity by narrowing perceptual bandwidth.**

Research shows constraining focus amplifies divergent thinking. As embodiment in a virtual body & location narrows sensory scope, alternative creative pathways open. Where some might want visual & sensory overload- others might benefit from a complete removal of it. **Spaces designed in context to the needs of the user can become therapeutic in nature while offering massive boosts in ability to focus, work & create.**

This reflects how blind individuals often display heightened non-visual creativity from developing alternate mental maps. Similarly, the focused immersion of VR environments filtering out physical distractions may stimulate conceptual leaping. **By paradoxically limiting perceptual bandwidth, second brains & controlled, contextual thought-spaces can help leap across mental canyons to unexplored terrains.**



Creativity Thrives in Play & Intrinsic Motivation

Undergirding all these factors is the fact that virtual environments foster playfulness & intrinsic motivation - peak drivers of creative flow.

Unmoored from real-world responsibilities or consequences, virtual spaces invite exploration, tinkering & experimentation for sheer joy.

When creativity is unencumbered by external goals & pressures, it flourishes.

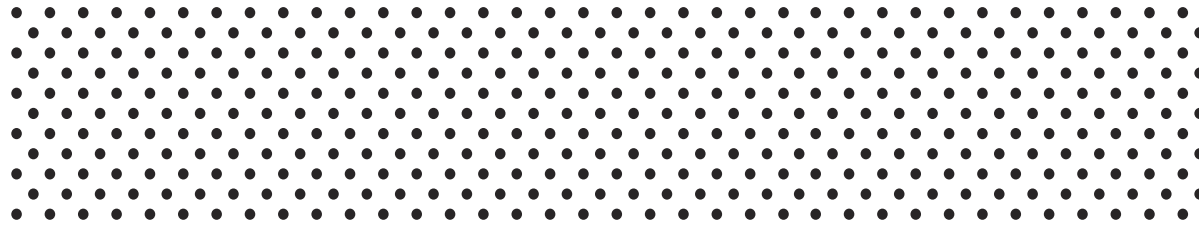
Second brains & their manifested thought-spaces could enable creatives, organizations & brands of all types to tap into open-ended play; in doing so unfolding their deepest original visions.

This liberation may be the greatest boon conferred by decoupling cognition from physical constraints.

The Realm of Human Creative Potential is Vast

In these ways, thought spaces & second brains promise to massively expand what is possible in creative realms. Freed from physical limits, connecting ideas in new syntheses, focusing collective energy, accelerating iteration & fostering play - great leaps in human invention and expression appear on the horizon.

Of course, technology alone does not generate meaning & beauty. But tools that remove constraints on imagination free the greatest renewable resource - the human spirit. **The concept of these multidimensional thought spaces & "second brains" raise intriguing possibilities, but also complex philosophical questions:**



The boundaries between augmented & extended cognition merit close inspection.

If tools feel seamlessly incorporated into sense of self, how does that alter conception of identity? **If cognition spans internal & external resources, what does it mean to be an autonomous thinker?**

Do our identities become diffused across fragmented mental architectures encompassing tools & algorithms designed by others? Could emergent groupthink limit divergent thought?

The boundaries between minds & machines require careful delineation. We must thoughtfully assess risks & philosophical tensions associated with incorporating external cognition so intimately into our identities. If achieving goals & life outcomes becomes completely dependent on technology alone, it could erode self-efficacy & agency. Where our generation has suffered from doom scrolling, we must warn future generations away from the ease of living on auto-pilot.

Over-reliance on automation reduces room for unstructured mental exploration.

On the reverse end, second brains also provide an avenue for latent connection & creativity in their own right. With a system that can gauge itself & the input given, it can learn to grow, expound & annotate in the background, creating repositories to pull from when work is done manually. **Humans must strike their own balance between natural & augmented capacities at an individual level.** The spatial web's ultimate impacts will depend on how philosophical concerns of identity, autonomy & wisdom are addressed in developing cognition-enhancing spaces & tools. Close consideration of existential implications will be critical.



Commercialization Also Warrants Caution

We have concerns surrounding monetization pressures that could incentivize addictive usage or design that maximizes data extraction over user wellbeing. Without thoughtful oversight,

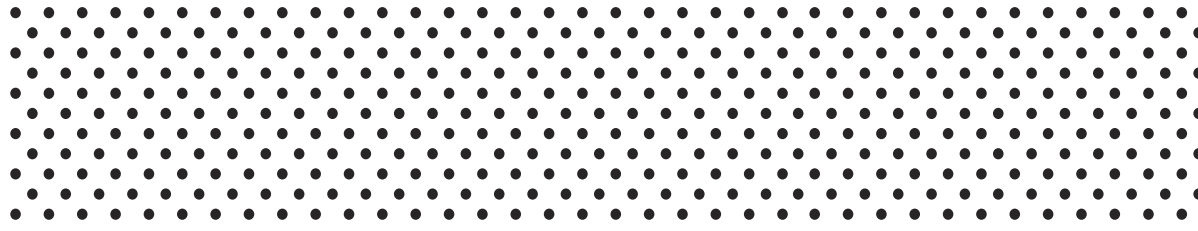
second brains, thought-spaces & any of their predecessors can become commodified tools & spaces governed more by corporate interests than user needs. Thus, while promising, augmented cognition & virtual space should not be embraced blindly as an inherent good. **Our first**

guiding priority must be uplifting human dignity, capacity & ability.

Only through careful intentional design centered on ethical principles & ennobling objectives can this technology augment our lives meaningfully. By maintaining humans firmly at the helm of their own destinies, AI & the Spatial Web's greatest gift may be expanding how we conceive of our mental & creative potential. With care, our second brains could help unlock latent creative abilities, foster collective decentralized growth & expand the frontiers of human thought... But we must remain vigilant in shaping their development responsibly.

The greatest minds understand there are horizons that transcend mere IQ. May our tools elevate our collective culture as much as our awareness & intellects.

This is the dawn of the Knowledge Economy at a transcendental level.



We live in an information age defined by relentless production.

With finite attention as the scarce resource, prioritizing consumption & curation is increasingly valuable. Thoughtful design of second brains & thought-spaces provides solutions to manage this abundance.

The pace of digital information creation has exploded exponentially... But much of this content lacks context, nuance or utility. Resulting fragmentation overwhelms cognitive bandwidth. Noise drowns out signal.

Simply producing more no longer differentiates.

In the age of overstimulation, *earning attention through quality, curation & genuine engagement* becomes imperative.

Further, capturing attention means a duty to use it responsibly. Leading voices must move beyond reactivity and sensationalism. Prioritizing understanding, dialogue & solution-finding should anchor thought leadership.

Objective analysis, diligent research & inclusive citation enriches discourse. Fact-checking, thoughtful reporting & vetting restore trust.

Long-term visions for progress guide short-term trends.



**Second brains & thought-spaces
model this ethos via knowledge
ecosystems designed for
reflection & elevation.
They scaffold understanding, provide
context & surface connections while
inspiring new output.**

**By curating information flows & designing spaces for
comprehension, they allow individuals to manage the
firehose of data on their own terms. This mastery grants
agency.** Thoughtful integration of AI assistants further empowers fruitful
consumption at scale, distilling
signal from noise. Goal-driven alerts remove need for constant monitoring.

For collaborative thought, open yet moderated virtual spaces can
facilitate exposure to diverse ideas while fostering inclusion through
community norms & mentorship.

Our attention guides where we place our intentions.

**With care, augmented thought tools can enlighten
discourse & progress. If grounded in empathy,
curiosity & intention, our limited attention may be
freed for the ideas that advance our shared hopes.**

Thought-spaces are virtual environments designed to augment & enhance cognitive processes like thinking, learning, problem solving & creating.

They utilize principles of spatial computing, knowledge management & experience design to craft immersive spaces that structure, stimulate, capture & expound upon existing data, outputs & thought.

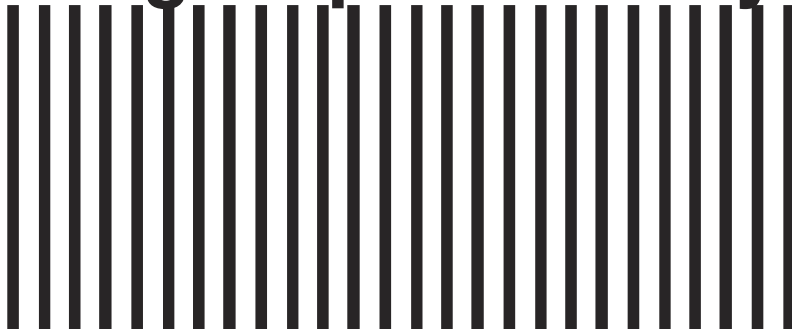


| EXPANDED |

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APPLIED THOUGHT:
**How can organizations,
individuals & brands
leverage the power of
thought spaces today?**



GARAGE DOOR OPEN

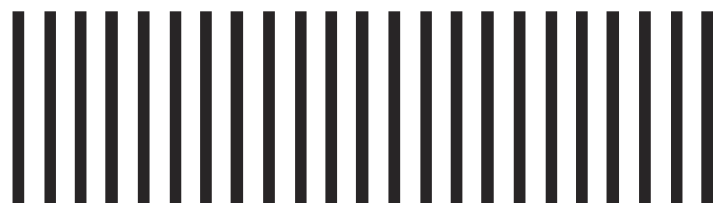
At Propagation House, we leverage thought-space principles in designing virtual environments that enhance workflows like learning, collaboration, media production & community interaction.

Our spatial web locations work as living thought-spaces aimed at providing the ideal head-space for elevated thinking & productivity. Through this, we've fostered an engaged community centered on the same principles.

By openly sharing our spaces, we've connected with creators & thinkers worldwide. This organic growth occurred through opening the doors to our thoughts, concepts & practices: providing platforms & proofing frameworks where people could easily build together, share knowledge & elevate each other's ideas in real-time.

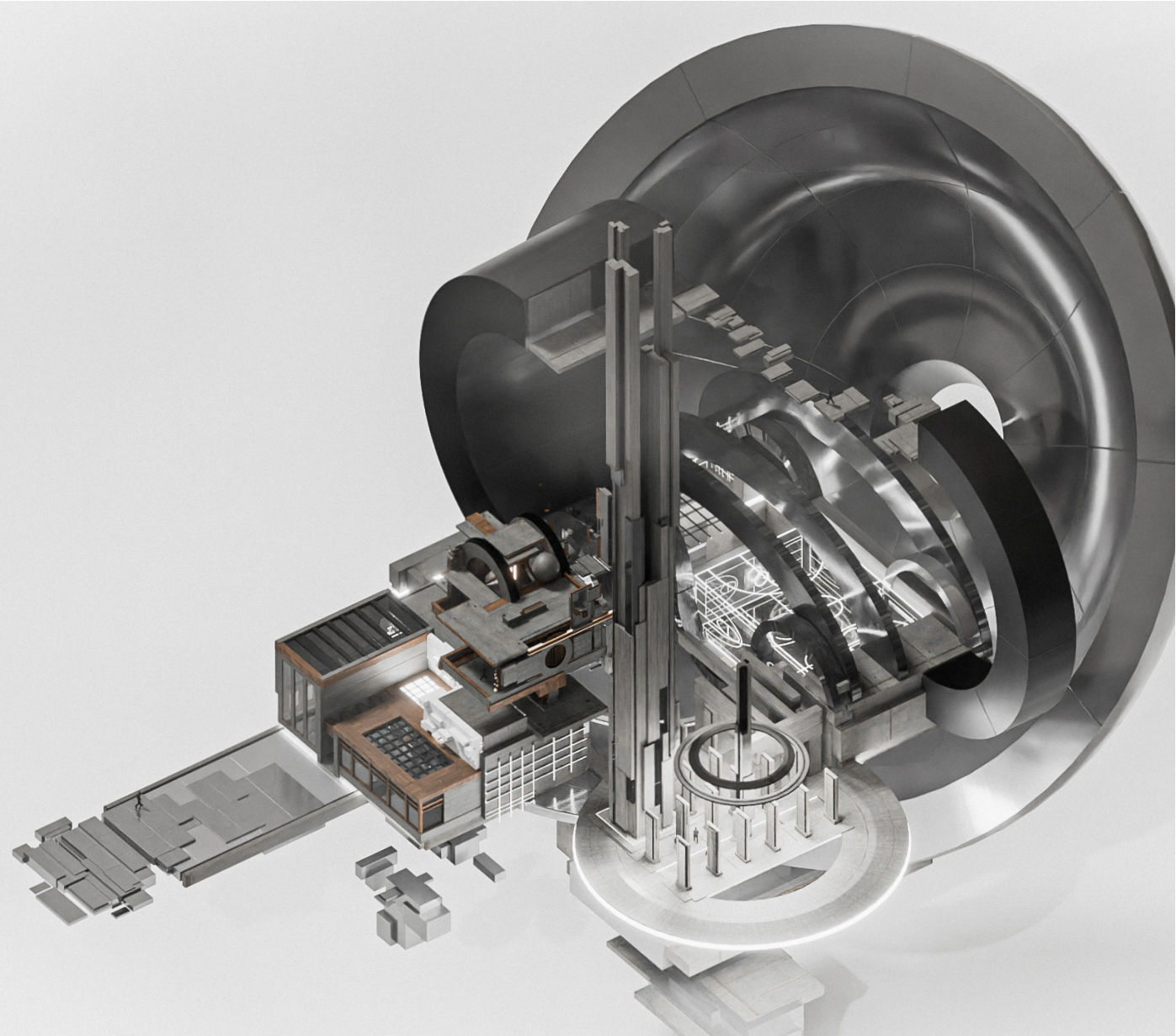
We also curate our spaces to highlight user creations, catalyzing innovation through inspiration.

≡ APPLIED THOUGHT:



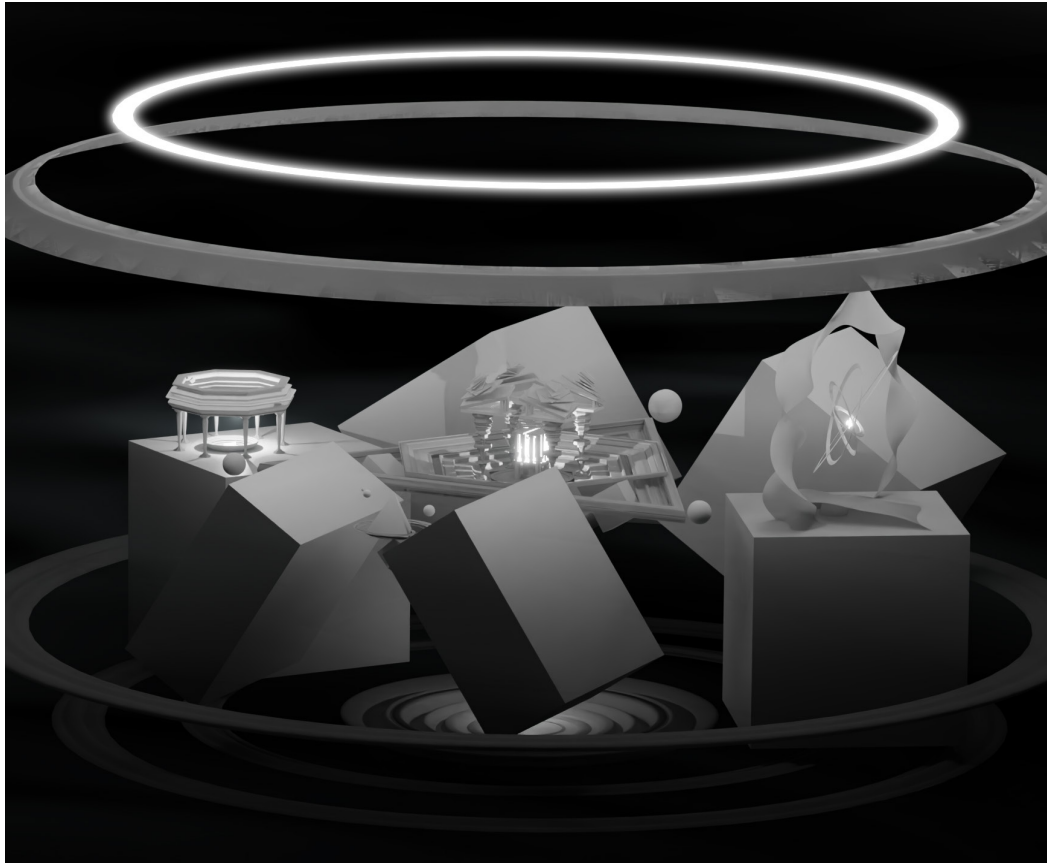
PUBLIC ACCESS = ORGANIC GROWTH

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HINDSIGHT | 2024

By welcoming the public to shape our platforms together, we've built more than just spaces - we've built a driven, supportive community advancing the creative renaissance. Our thought-spaces may seed the ideas, but it's the people who bring them fully to life. Many lessons & tens of thousands of guests later: Opening our doors has been the best decision we've ever made.



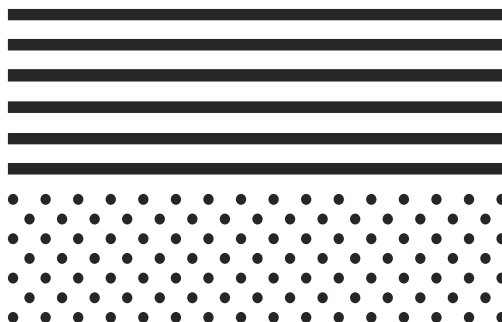
≡ PARALLEL USAGE

PRIVATE

Private thought-spaces work as personal productivity hubs for organizing knowledge & ideas. Users can structure information in a way customized to their own cognition, mapping concepts & data to optimize thinking. Private spaces also enable securely accessing & storing confidential data & early ideation.

PUBLIC

Public thought-spaces facilitate discovery, transparency & democratization of information. They allow diverse minds to connect & build on shared data, tools & frameworks openly; bringing new perspectives & use cases designers may not have envisioned or even thought of alone.



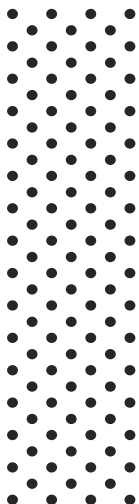
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BALANCE

Balancing private x public spaces provides the best of both worlds:



WITH MULTIDIMENSIONAL LOCATIONS WE MUST BEGIN THINKING
NOT "OR" BUT "AND". LEVERAGE SIMULTANEOUS USE;



PHSDS | 2024



Private internal spaces allow teams to communicate & collaborate efficiently across remote locations & compile organizational knowledge. Public spaces build community, increase reach, gather feedback & showcase offerings.

In the future, we envision users easily toggling between public & private thought dimensions according to their context & needs. The same underlying knowledge canvas powers both, but access controls & permissions customize experiences.

This duality will allow next-generation thought platforms to become versatile ubiquitous workspaces. As technology evolves, integrating both public & private thought-space capabilities will be imperative to enabling users to think & create seamlessly across contexts. The ideal scenario is giving users control.

Individuals may have private personal thought-spaces while teams have secure project environments & branded areas to engage their communities.

The tools should enable both scenarios.

+ phsds |

PHSDS
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As spatial computing evolves, blended thought-spaces become preferred workplaces. Private, team, public: the borders blur into a multidimensional knowledge mesh facilitating collaboration at the ever accelerating pace of today.

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IMMEDIATE

APPLICATIONS TODAY



Where context, theory, speculation & personal narrative might help begin the conversation, it's important to return to the very beginning: **these technologies & applications are already possible in todays world.** We don't have to reinvent the wheel, rather understand what aspects of provided space transform a guest into an advocate & guide.



TRENDS

ACTIVE MOTION WITHIN THE WEB

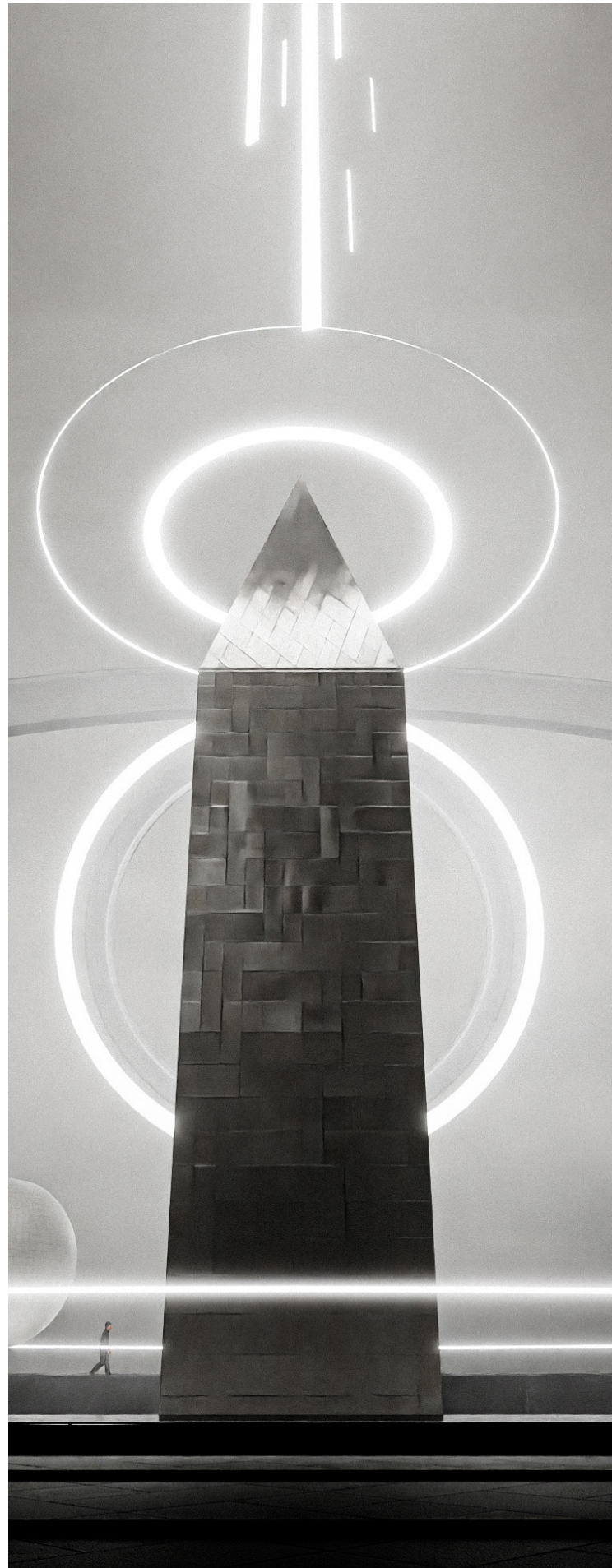
Success rests in understanding **the key is to design experiences that tap into the same human motivations & behaviors that make in-person engagement fulfilling.** If the tech challenges today's spatial limitations rather than simply replicating physical spaces, our multidimensional future could expand human potential & connection.

INFORMATION & STREAMING CENTERS

- What if forums, threads & archives were rooms with searchable catalogs & shared spaces for real-time discussion?
- What if streamers had a homebase & contextual guestroom?
- What happens when a chat server is expanded into a commons & community hall?

BRAND & TEAM HUBS

- Do persistent interactive team-rooms provide more value than video call or shared cloud storage?
- Can a multidimensional brandhub provide more impact than vanity metrics?
- Does virtual space & production provide amplified returns on investment through real-world impact?



SIMPLE CONVERSIONS & EXPANSIONS



NEWS & EDITORIAL

News & media sites' signature aesthetics & styles can be translated into unique virtual environments hosting their content & community. Integrated virtual spaces surrounding content facilitate community, discussion & extended engagement between audiences, journalists & guests.



RADIO & CULTURE

Think about 24/7 radio channels on YouTube: expanded into public spaces with community lounges, chats, & virtual environments modeled after real studios or in direct context to the media being streamed. Listeners tune in via traditional stream methods or as avatars there in real-time.

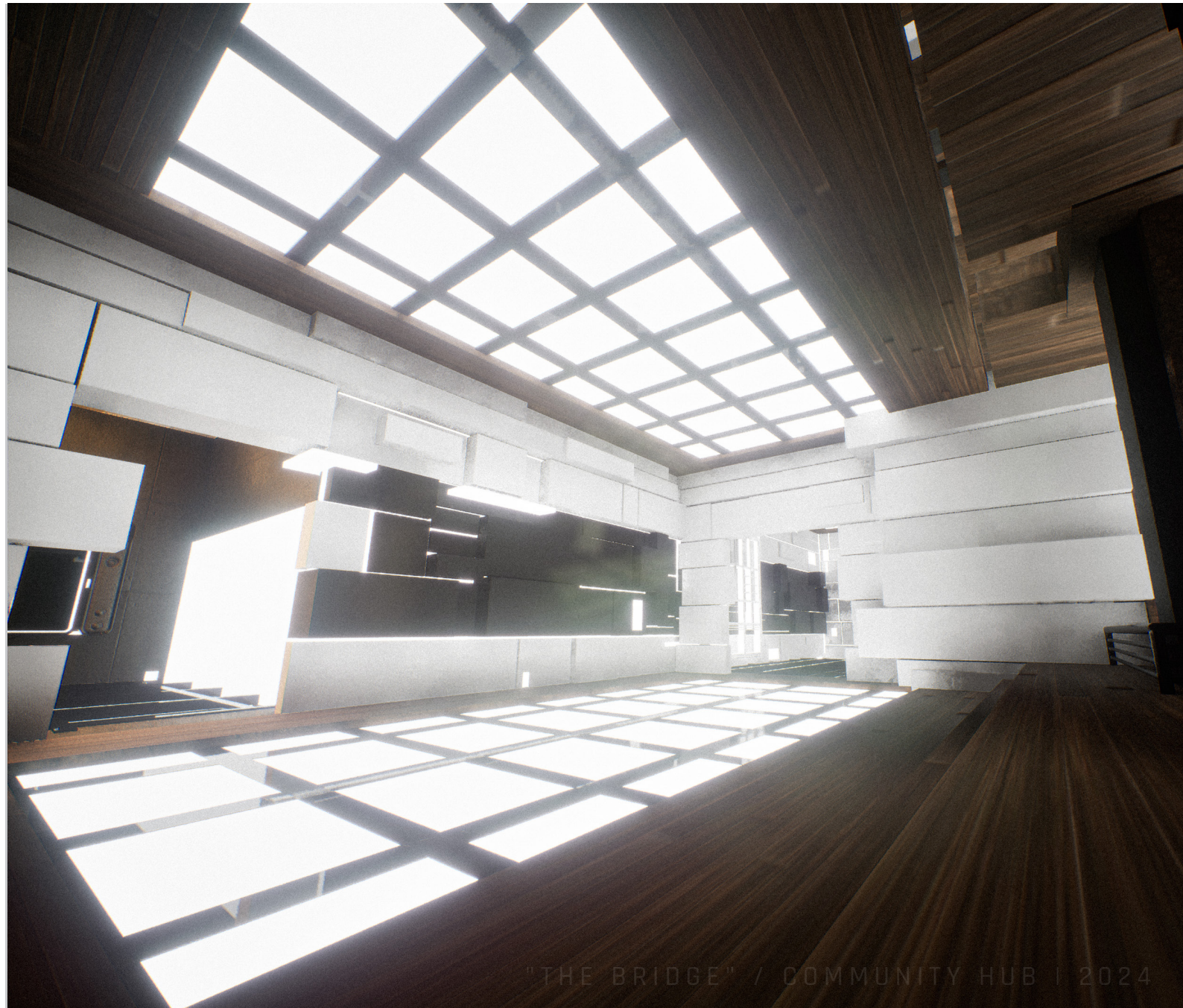
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ARTIFACTS

Customized Delivery: In-world content can be downloaded for offline consumption, empowering users to experience information when & where convenient.

LITTLE TO ZERO COST OF
FAILURE, MAXIMUM REWARD
ON SUCCESS.

+ phsds |



"THE BRIDGE" / COMMUNITY HUB | 2024



As spatial expansions reshape human connection, leading brands have a unique opportunity to evolve consumer engagement by designing immersive “thought-spaces” that channel desired lifestyle associations & build genuine community.

Rather than mimicking physical buildings, forward-thinking brands can manifest their ethos into explorable web & 3D environments tailored to consumers’ aspirations & values. By tapping into lifestyle identity & leveraging capabilities like mixed reality & interactive experiences, branded thought-spaces allow the creation of holistic worlds that provide value beyond transactions. They deepen brand connections through shared experiences & alignment with consumers’ ideal self-image. Responsible branding involves promoting wellbeing, diversity & accessibility in these spaces. Ultimately, immersive thought-spaces offer immense potential for brands to transform static affinity & core messaging into embodied, shared worlds.



LIFESTYLE & BRAND ASSOCIATIONS

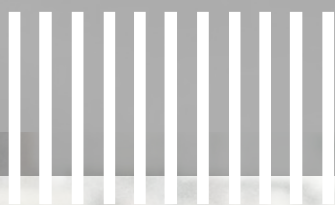
The most visionary concepts tap into innate human motivations like achievement, creativity, self-actualization & belonging.

Brand homes can provide environments where those motivations are nurtured into vibrant communities.

Savvy brands & media houses will co-create these experiences with customers, not just for them.

They will provide flexible spaces for user-generated content, customization & remixing. By encouraging participation, brands can deliver persistent value that evolves to meet customers' ever-changing needs.

Experiments today - allowing spatial web users to design virtual wearables - provide clues to the participatory future of cross-world, cross-platform assets. Brand homes will feel less like marketing billboards & more like collaborative art canvases where companies and communities collectively leave their marks.



| CO-CREATION

(IMAGES: OUTDOOR XR DESIGN WORKFLOW DOCUMENTARY | MAY 2023
EARLY DEMOS FOR STREET ARTISTS & DIGITAL CREATORS TO BRING XR DESIGN &
HIDDEN LOCATION INSTALLATIONS TO ON-SITE, REAL-TIME LOCATIONS.)

POURING INTO THE STREET

BLACKBOOKS & BACK ALLEYS AS CANVAS & LANDMARK

Traditionally, black books were notebooks where graffiti writers documented their art by collecting sketches, photographs, style studies, and planning notes. These books were like mobile portfolios. Similarly, thought-spaces allow artists to compile a digital profile & archive of their work across mediums: sketch scans, timelapse videos, XR pieces, virtuality hideouts, the options end at the users ability to craft them. The process of incrementally building up these dynamic portfolios encourages continuous improvement, much like filling a black book.

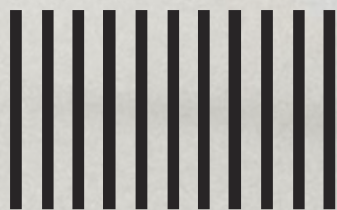


THE BEGINNING

BLACKBOOKS & PERSONAL STORAGE

Privately, the spaces allow revisiting the evolution of one's style over time for reflection. Publicly, they showcase growth.

PRIVATE | PERSONAL

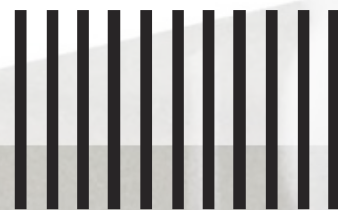


WHERE IT LEADS

COLLECTIVES & GROUP COLLABORATION

Fellow artists can interact with & contribute to public pages, forming bonds. Links between spaces create cohesive cultural networks.

PUBLIC | SHARED



+

COLLECTIVES

Thought-spaces can showcase artwork, secret spots, collaborators, inspirations, merch, collective info & more - providing new avenues for creatives both anonymous & public to monetize their work & sustain their craft without compromising interest or creative freedoms.

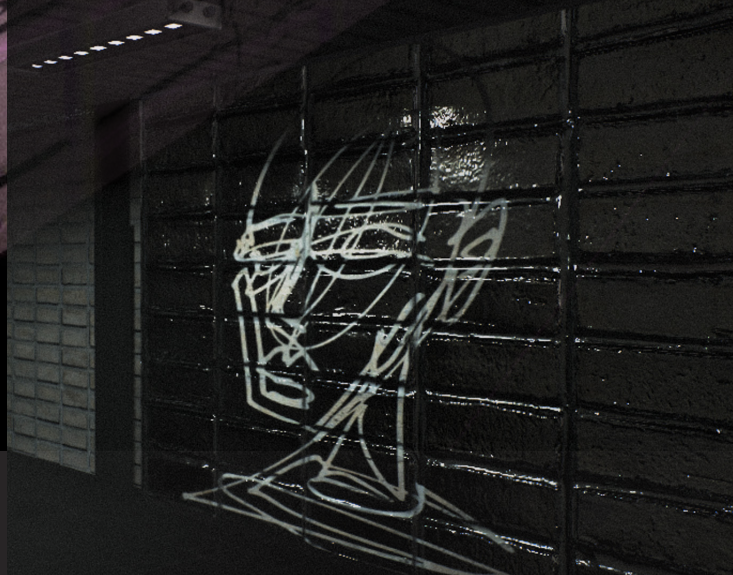
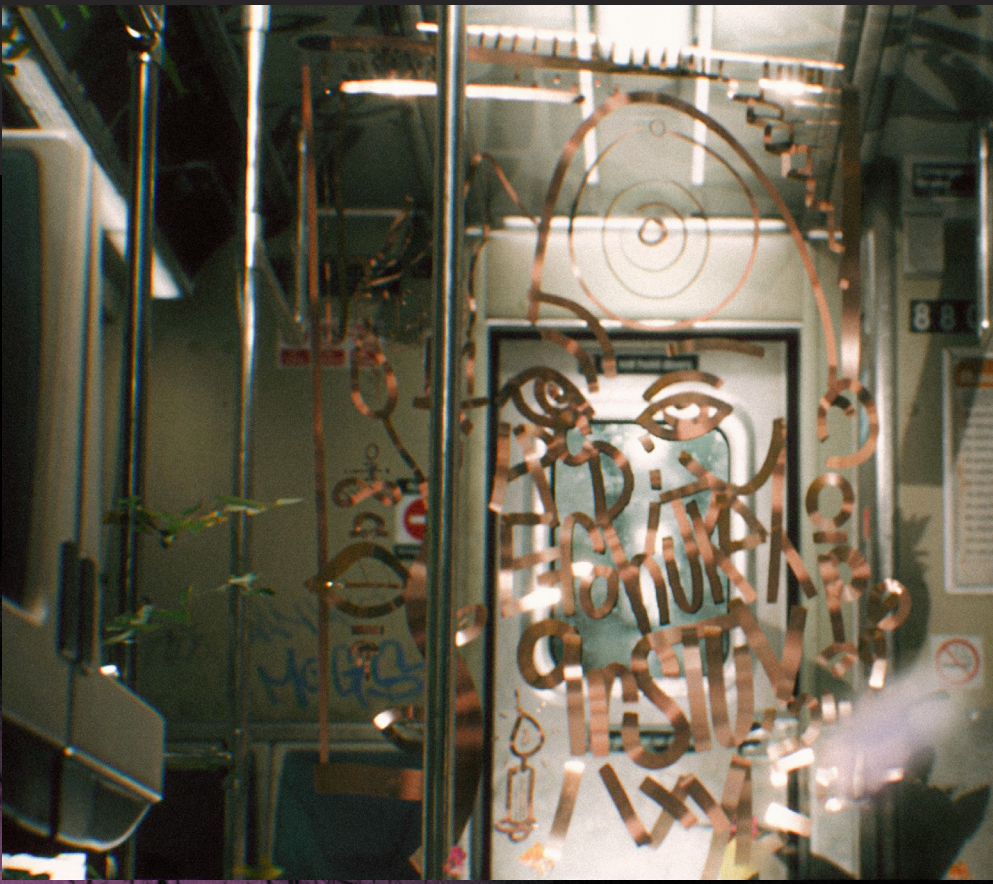


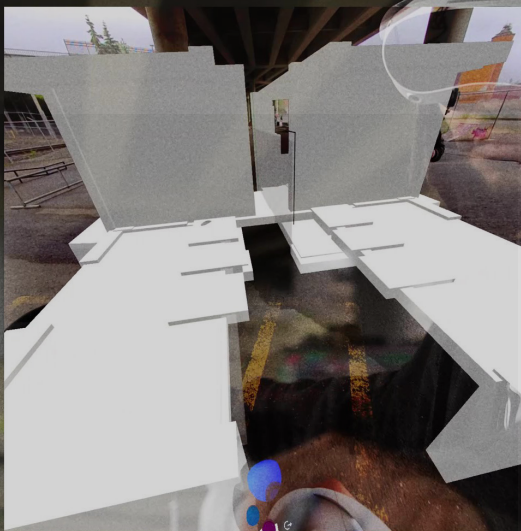
MOBILITY

Thought-spaces bring back the spirit of old school blackbooks into the spatial computing age, evolving portfolios into persistent augmented playgrounds for individual & collaborative creativity. The foundations hold while the canvas expands exponentially.

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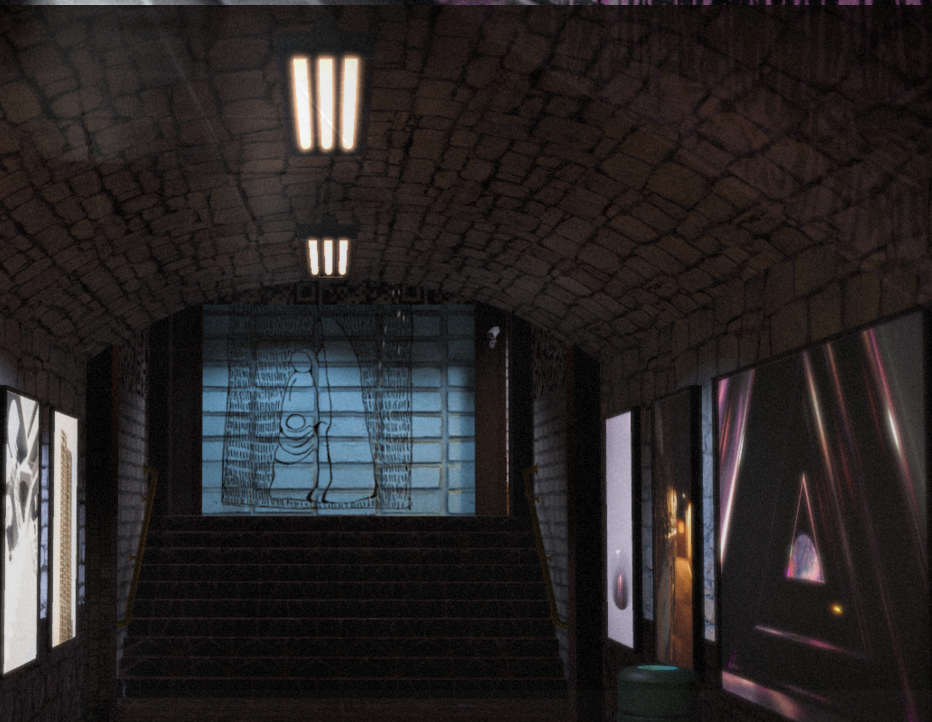


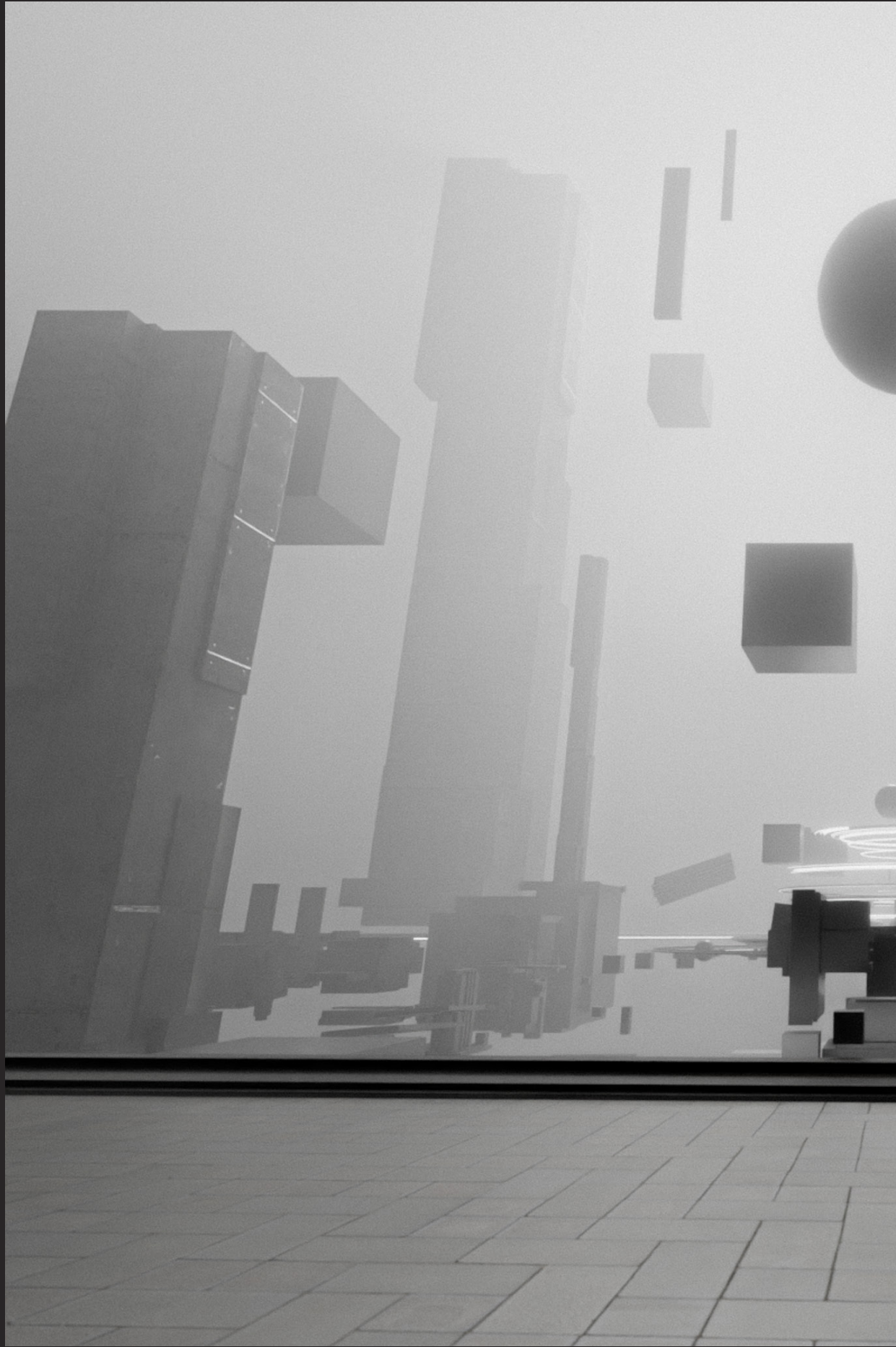


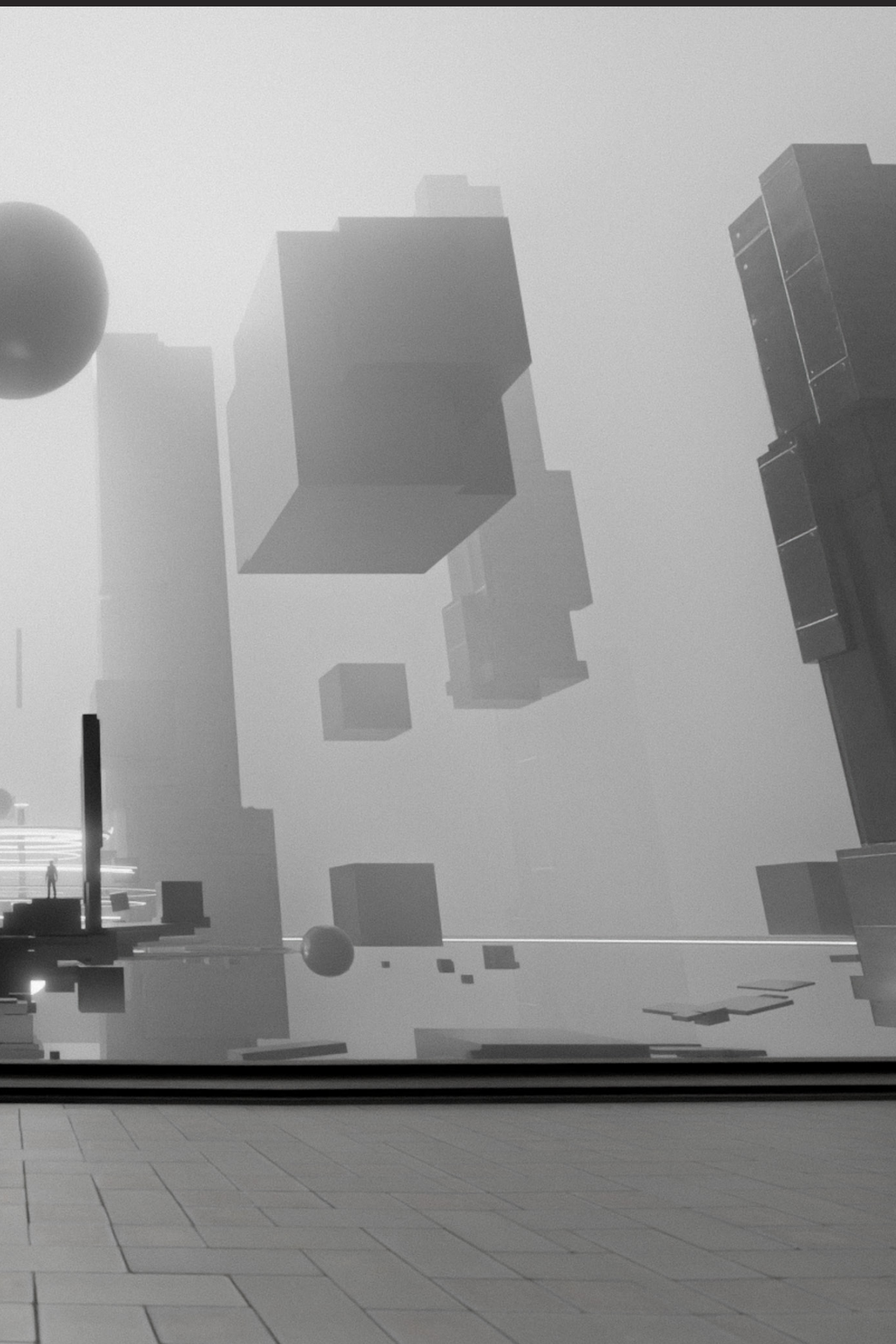
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"GARDEN STATION"

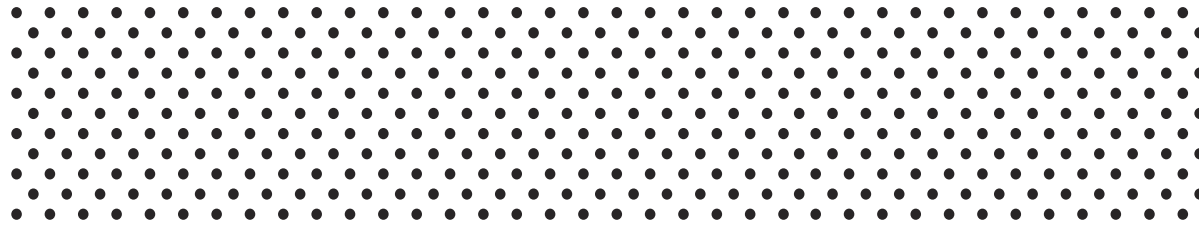






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2023 | "ONEIRIC"



The emergence of expansive, persistent virtual worlds has opened a new spatial frontier

for brands to architect unique environments that deepen relationships with customers. As the multidimensional web ecosystems grow exponentially, forward-thinking companies have an unprecedented opportunity to establish footholds & anchor immersive brand homes using thought-space principles & concepts.

With open room for invention, brands that craft experiential virtual spaces with community & utility at the core can gain first-mover advantages. They can seed loyal followings & evolve new relationship models not possible in the physical world alone. **By straddling virtual & physical touchpoints seamlessly, brands of the future will transcend transactional connections and embed themselves in customers' lifestyles.**

Most importantly, successful hosts & brands will be focused on genuine value creation for customers over pure marketing. They understand the greatest rewards will come from building community hubs that enrich users' virtual lives.

Envisioning Multidimensional Experiences With a clean slate, brands have endless room for invention unconstrained by physical limitations. Virtual architecture & design can fully reflect brand personalities & values. **Branded structures can assume any form imaginable - floating shapeshifting buildings, monolithic museums, surreal dreamscapes, cozy, hidden reading locations, the options in context to the creator(s) are endless.**



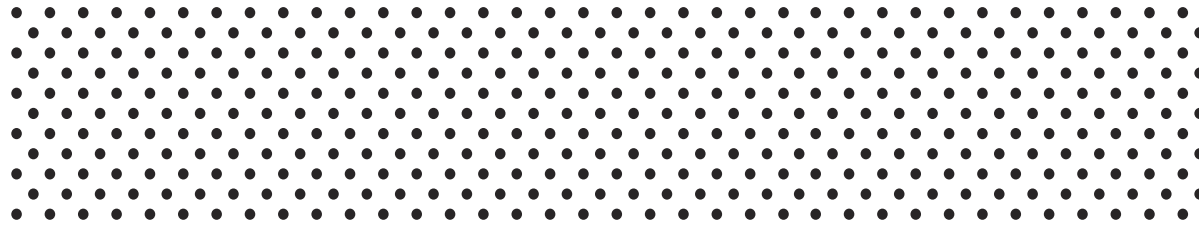
The most visionary
ideas tap into innate
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Organizations & brand
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nurtured into vibrant
communities.

Experiments today - like Nike allowing metaverse users to design virtual wearables - provide clues to the participatory future. **Brand homes will feel less like marketing billboards and more like collaborative art canvases where companies and communities collectively leave their marks.**

Bridging Physical and Virtual Worlds Innovative brands will develop omni-channel strategies spanning physical and virtual touchpoints. Apparel companies could establish virtual clothing shops linked to real-world fulfillment. Automotive brands may showcase concept vehicles as drivable metaverse models before physical production.

The greatest opportunities will come to those who embed themselves into the customer journey with utility and meaning, not distraction and triviality. This human-centric approach is the compass guiding brands into the spatial web frontier.



Thought-Spaces & Education:

In thought-spaces, abstract concepts can be brought to life through 3D visualizations, AR overlays & virtual presence, whether that be via 2D screens or access to VR devices. Exploring the human circulatory system by shrinking down to navigate the winding chambers of the heart. Visiting realistic simulations of historic battlegrounds to engage with pivotal conflicts, building new ones to understand physics & zero gravity strategy. Time & science have proven that such experiential learning works better than static content & generates stronger, lasting engagement from students.

Student creativity & collaboration also thrive in thought-spaces. Constructing architectural drafts in a shared VR environment. Co-designing 3D data visualizations to communicate group research findings. Learning through doing alongside peers, not only solo absorption.

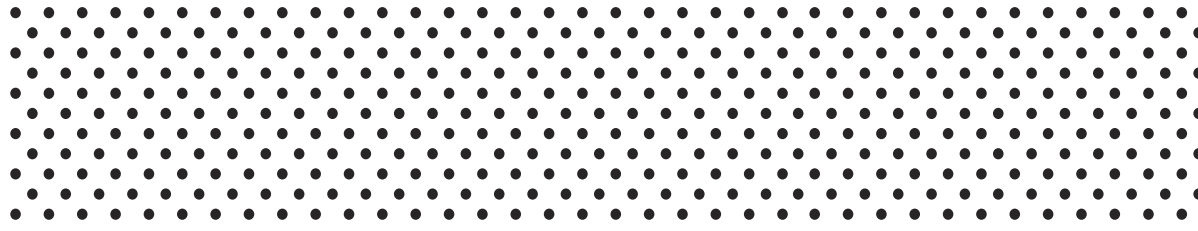
Thought-spaces transform educators into designers tasked with architecting the ultimate environments for resonant learning. Beyond presentations, they craft immersive educational journeys - guiding students through carefully orchestrated sequences of interactive challenges, 3D puzzles, collaborative creative projects & more.



This spatial approach also enables personalized learning. Thought-spaces can adapt in real-time based on student progress & needs, opening up new learning pathways catered to individual capabilities & interests. Students have agency in charting their own course.

Responsible design considers accessibility, student wellbeing & equity. But conceived conscientiously, thought-spaces can make learning experiential, social, adaptive & empowering.





For example, a student struggling with algebra may spawn a supplemental virtual tutoring session adapted to their skill gaps, available as long as they need it.

Quick learners access expanded challenges & bonus content to continue growing. Adaptive systems track progress, providing precise scaffolding & feedback for incremental growth. **We recognize a future where integrations with AI into these second brains & thought-spaces provide exponential opportunity for customized & adaptable learning,** boosted productivity & greater user output in all realms of information consumption, creation & sharing.

Learners have agency to construct knowledge in ways resonating with their mental models. Spatial interfaces enable assembling concepts, visuals & data into structures reflecting individual cognition.

Explorable web campuses allow self-directed investigation driven by curiosity. Learners chart their own paths while staying on track with gentle guidance. **Knowledge discovered is knowledge better retained, by design.**

Of course, balance remains essential, as does diverse social learning. But responsibly implemented, **spatial personalization enables education experiences designed for how each unique mind expands.**



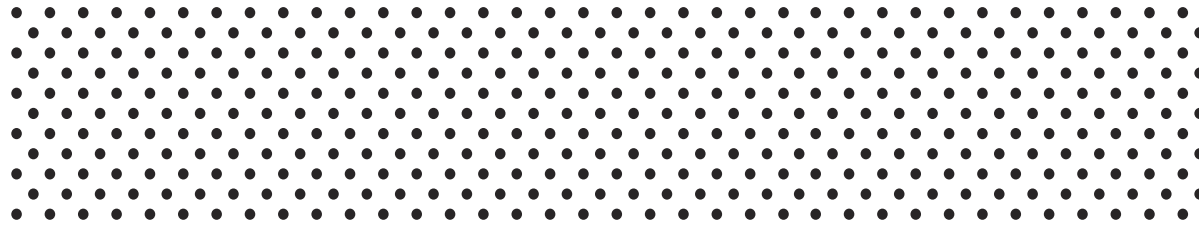
For students, thought-spaces transform education into an adventure. Immersive worlds ignite curiosity & empower burgeoning capabilities.

Explorable environments filled with interconnected concepts encourage self-directed investigation, offering students a personalized way of understanding how lessons link together & driving deeper engagement in the process.

Balancing virtual experiences with offline work remains crucial. But conceived thoughtfully, thought-spaces help students take command of their growth through active participation.

Shared department spaces encourage cross-disciplinary collaboration & continuity across classes.





Reimagining Collaboration: Shared Thought-Spaces in Education, Research & Personal Interest Groups

Spatial computing platforms offer immense potential for evolving how students collaborate, explore interests & generate shared knowledge.

For group research projects, shared thought-spaces allow teams to visualize information & ideas spatially, building an interactive hub & archive for their inquiry. 3D mind maps take shape as they connect findings. Documents, 3D models & multimedia integrate directly into the environment.

Rather than dividing tasks, these spaces enable truly collective analysis & synthesis. Students fluidly zoom into the micro & macro levels of complex topics. **They learn actively by contextualizing disparate puzzle pieces into a unified whole.**

Beyond static displays, these thought-spaces become sand-boxes for simulation & creation. Teams can iterate models together, role-play scenarios, or code interactive presentations to condense, elevate & expound upon their research.

For classroom collaboration or personal growth, **shared thought-spaces allow students to take ownership of interests & direct their learning.**

For student passions & niche interests, shared social thought-spaces create hubs to convene, discuss & create together.

Young critics analyze films in a virtual cinema. Budding producers build compositions asynchronously in real-time.

Guiding principles & community norms help these spaces remain constructive & welcoming. Students have agency to cultivate fields they care about, unbound by physical constraints. Mentors amplify potential through challenges.

As hybrid learning evolves, collaborative thought-spaces promise to enable students to engage with education & each other in far richer ways. The foundations take shape in how we spatialize minds today.

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"INTERNET ARCHIVE"

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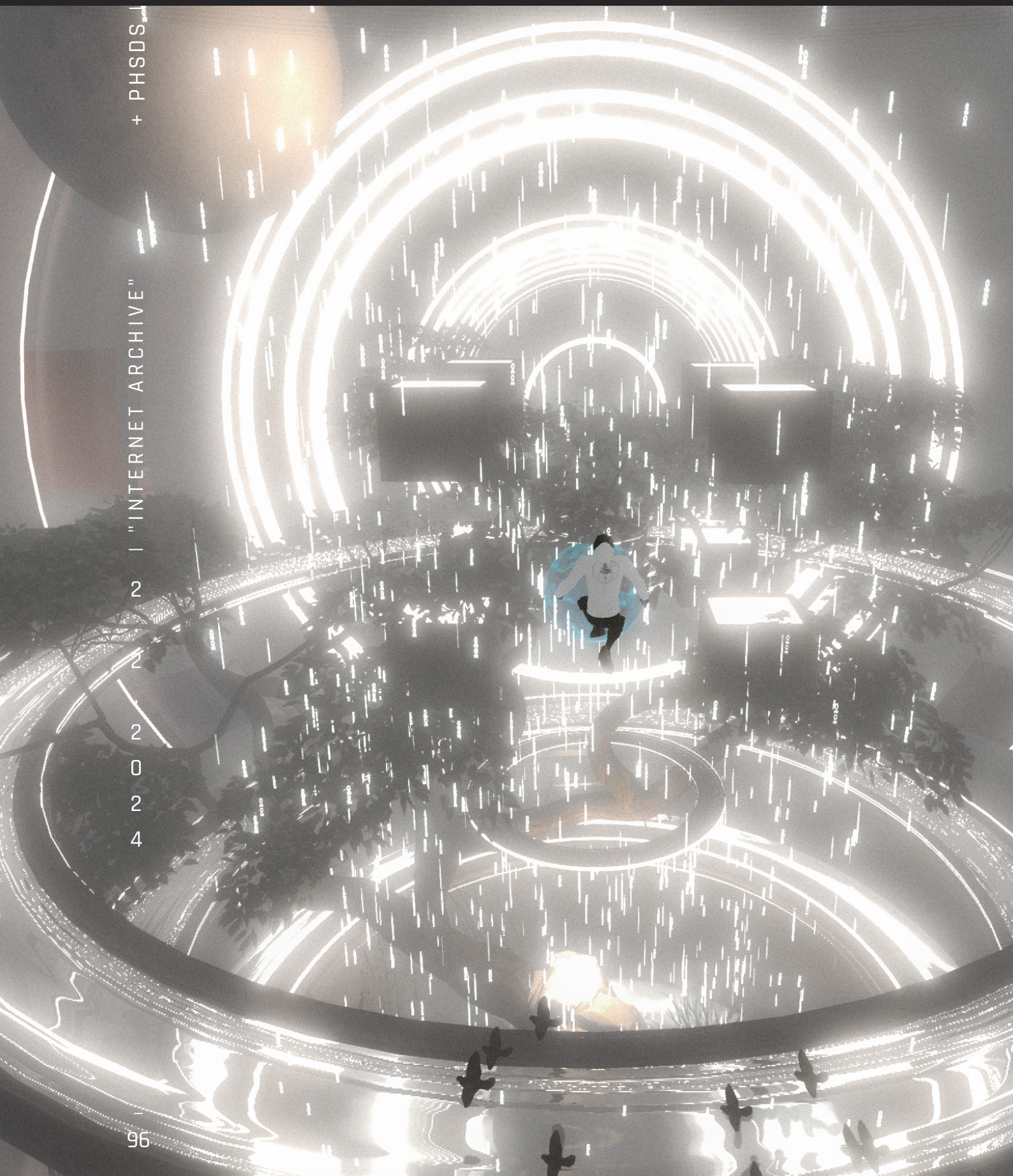
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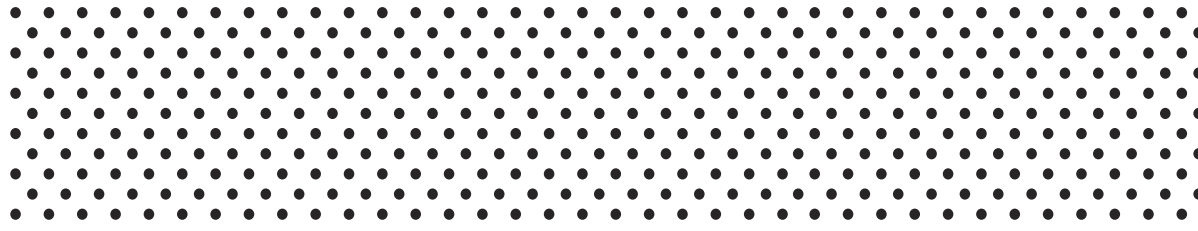




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Libraries & Archives:

While personalized private thought-spaces empower individual learning, shared virtual libraries unlock new potentials for knowledge discovery, access & exchange.

Students can construct personal knowledge bases housing their evolving interests & coursework synthesizations. These private hubs integrate materials from disparate classes and subjects, encouraging interconnected understanding.

Linking private learning spaces to shared libraries gives student agency over what knowledge they contribute publicly versus reserving privately, allowing shared libraries become dynamic repositories of community knowledge. **Fellow students leverage & enhance each other's work, catalyzing the continuous evolution of ideas in new directions as their shared archive matures & interests create experts.**

Curating public thought-space libraries also trains critical thinking on how best to frame & contextualize information for public consumption. Students learn through sharing.



Responsible norms & principles must guide constructive knowledge exchange, ensuring academic integrity & intellectual property rights remain intact. Combined responsibly, personal thought-spaces & collective libraries offer models for open knowledge ecosystems that empower societies. If students help manifest this future, its form expands exponentially.

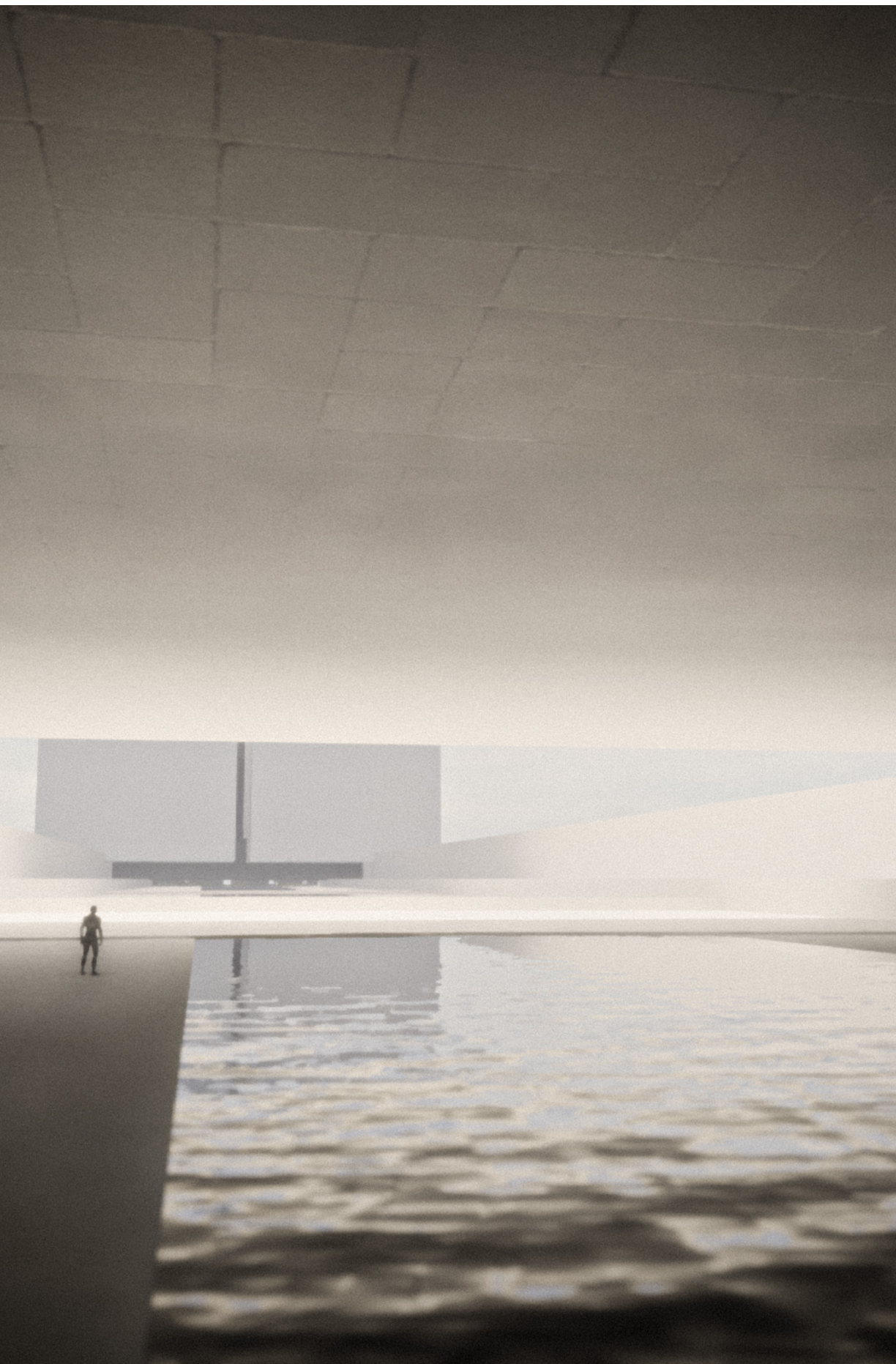
Community norms reinforce educational & ethical standards. With care & conscience, reimagining libraries as multidimensional thought-spaces can transform static repositories into living hubs for discovery, sharing & growth.

**The shape of progress
& information starts
in our spaces.**

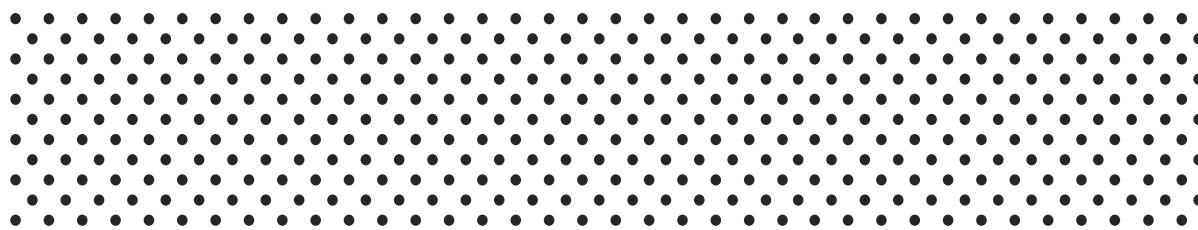
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On Building Personalized Thought-Spaces: Where to Begin

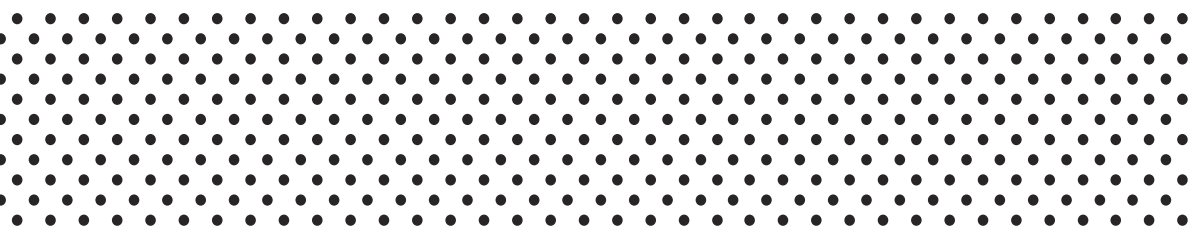
It's important to recognize second brains as the result of a shifted habit. In an increasingly digital world, deliberately managing knowledge & data has become more crucial than ever. Between scattered notes, cluttered bookmarks & downloads lost in folders, many feel overwhelmed when trying to implement an effective system.

Centralized digital knowledge management ecosystems - offer a concrete approach for overcoming information overload. By establishing the right fundamentals, what initially seems daunting gradually becomes an intuitive high-functioning workspace extending your natural cognition.

The first step is identifying a consolidated home for your digital materials - articles, PDFs, documents, notes, clips - rather than keeping them fragmented across mediums, devices & apps. Choose a platform matched to your needs like Notion, (I love) Obsidian, Evernote, or manually set a core structured file folder system. The key is accessibility in one spot rather than total dispersion. **Think of this as your new neural center.**

(Please, back it up. Often.)





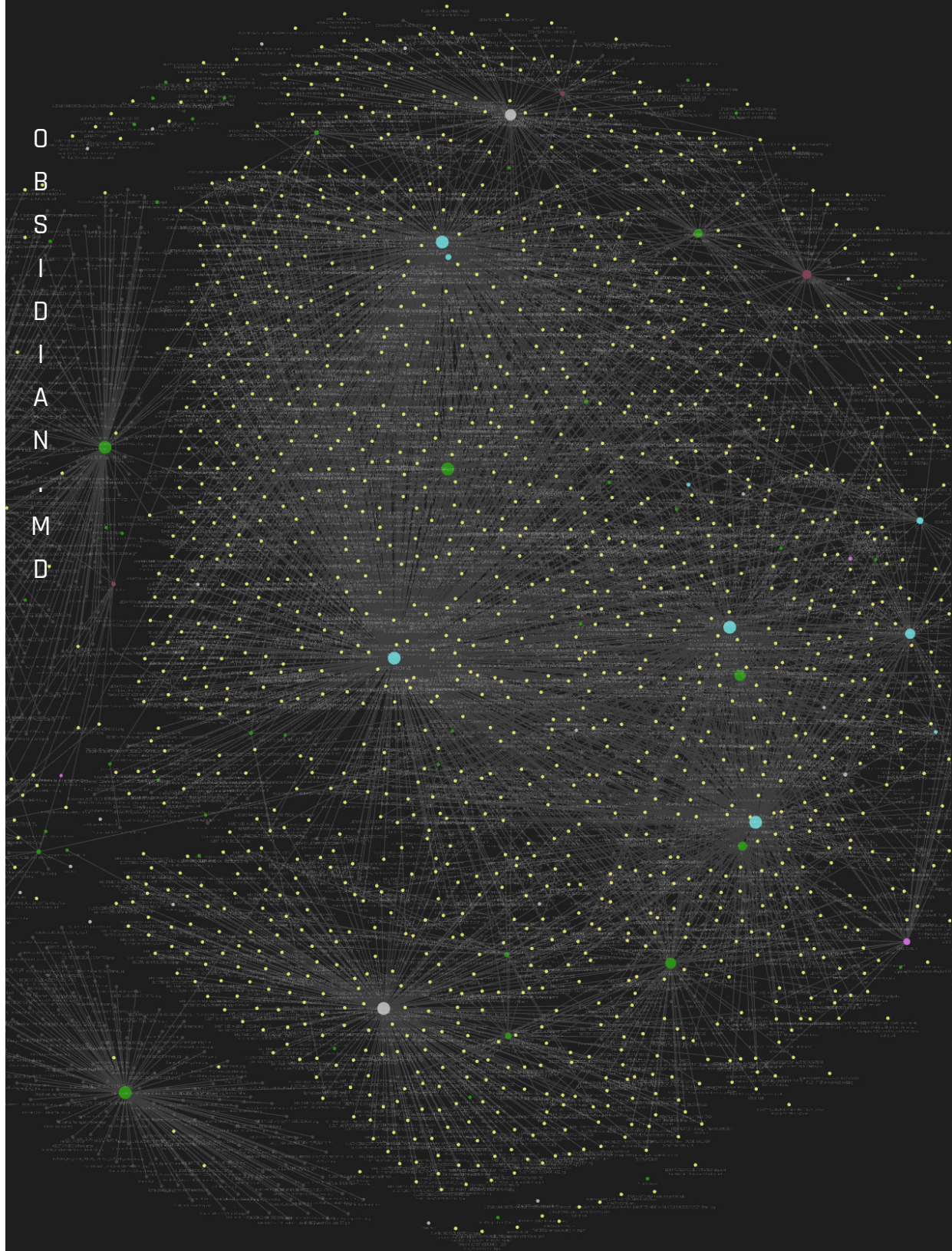
Within this new neural center, build a consistent folder & tagging structure tailored to your media types & thought patterns. Apply it ritualistically going forward.

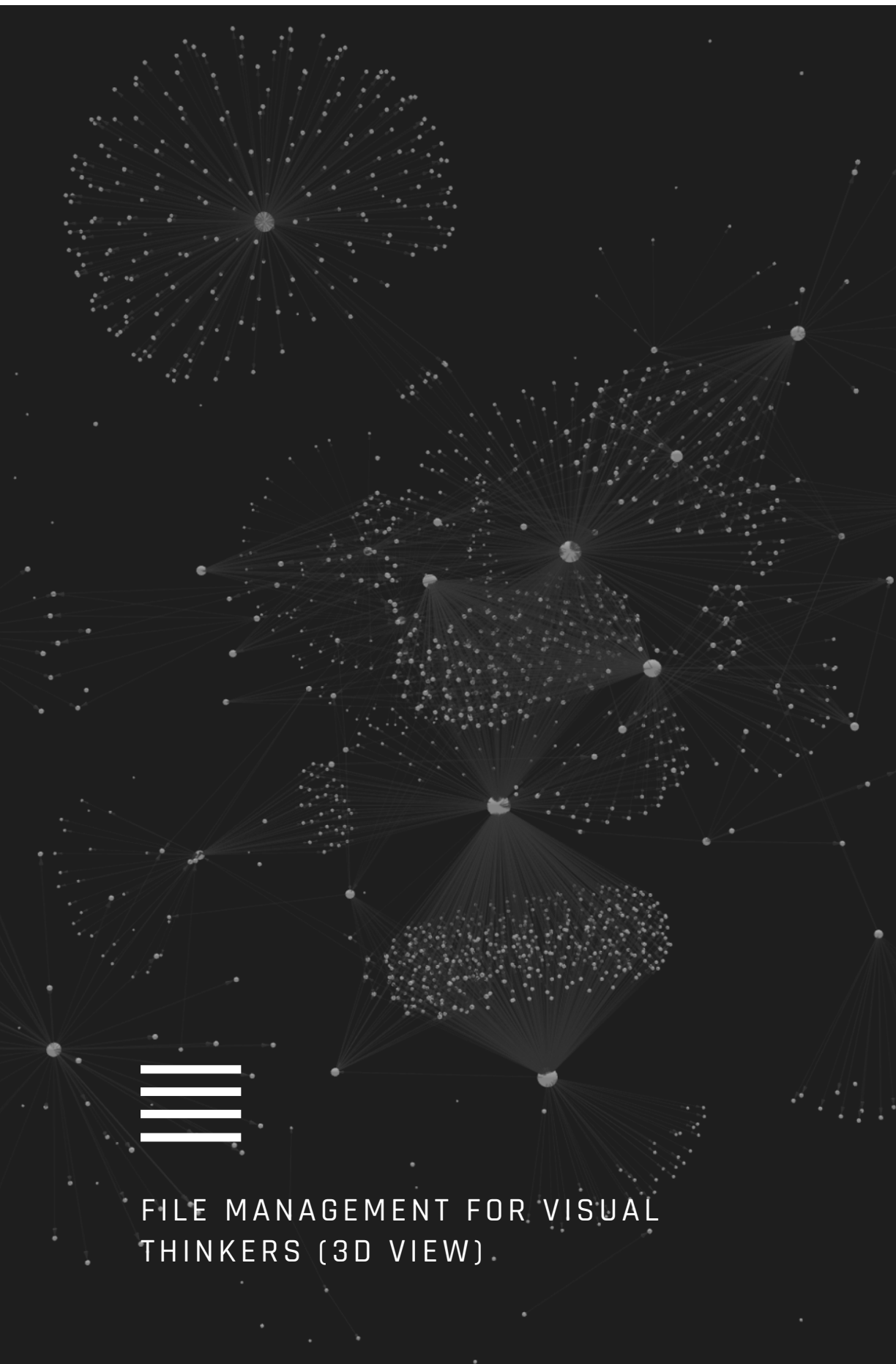
Well-defined organization schemes make related content far easier to surface later through navigation & search.

Set your devices to automatically route downloads & notes into dedicated landing zones within your hub. Regularly process & file these materials before inboxes overflow. **Removing such friction builds habits: When entering new information, also take time to actively summarize, relate ideas & create thought artifacts like mind maps. Deepen understanding as you capture it.** This book has been the effective result of leveraging a matured second brain & thought-space to manage, ideate, draft & build upon. Personally, I have always been a visual thinker- having a hyperactive brain, it was always difficult to effectively & consistently package the media I was creating, regardless of it's quantity, quality or depth. When I began to leverage the power of thoughtful systems in relation to the spaces we build at Propagation House, it became extremely easy for me to recognize the packageable outputs that already existed within my history as a creator & then expound on them further as polished pieces, literature, spaces & productions.

With the right small habits, managing knowledge transitions from intimidating chore to intuitive pathway for intellectual growth. Consistency breeds accessibility.

PERSONAL 2ND BRAIN EX. | OBSIDIAN.MD

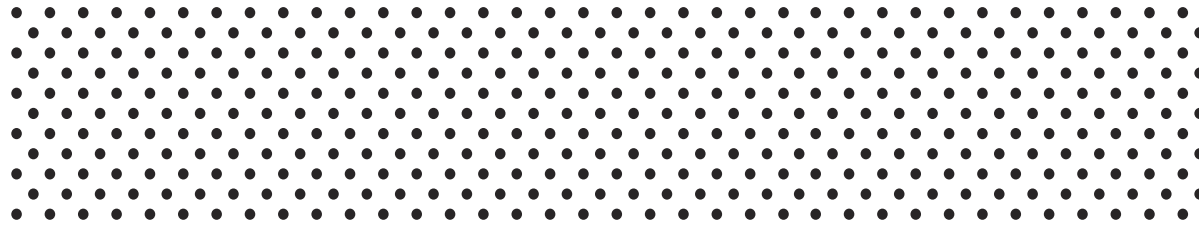




FILE MANAGEMENT FOR VISUAL
THINKERS (3D VIEW).

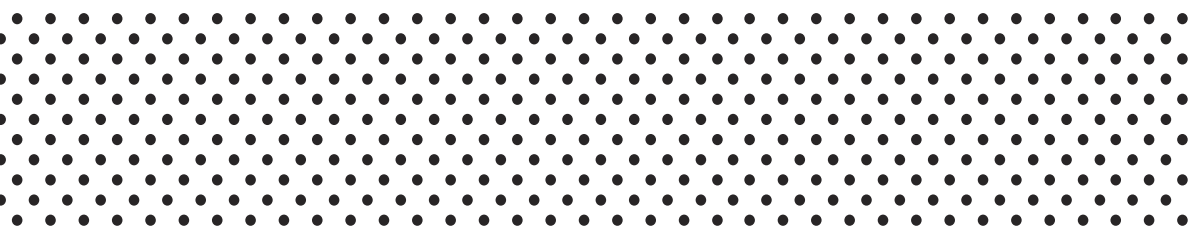
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**Once fundamental
knowledge & data
management habits
take root, further
develop your skills
through creating
templates, linking
concepts & practicing
asset retrieval.**





Build templates for notes, clippings, & task management tailored to how your mind works. Consistent frameworks speed processing information into your system. Customize page styles for longform writing & note taking. This evolves rough ideas into finished, shareable concepts. Link related materials through backlinks, tags & highlights to connect concepts across your knowledge base. Identify synergies between documents & synthesize ideas from discrete sources. **Through consistent input method & growing organic search capabilities, unified understanding & trajectory emerges.**

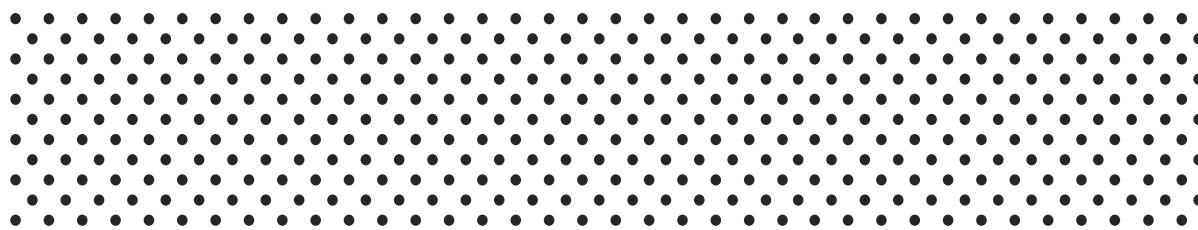
Practice retrieving key information from memory rather than always referencing notes. Periodic recall exercises strengthen true neural pathways before accessing your second brain & managing their resulting thoughtspaces both online & privately. **Test yourself.**

As comfort increases, integrate spatial computing to unlock the full potential of your externalized mind.

Interactive 3D views visualize connections. Virtual spaces allow for immersion, collaboration & creation. **Augmented experiences can assist in compartmentalized retrieval or display of prioritized data for individuals anywhere.**

Building a functional second brain magnifies your capacity to benefit from knowledge. With the fundamentals mastered, integrating new tools & techniques perpetually expands possibilities while compounding value from behavior & output.





As your second brain capabilities scale, ensure healthy usage & collaboration for maximal impact.

Avoid over-dependency on constant information access. Balance digital knowledge with experiential skills and wisdom. Unplug periodically to sharpen memory and focus.

Apply your personal knowledge base to generate value for others - create guides, give talks, mentor newcomers. Altruistic motives paradoxically provide the greatest returns in the age of specialized knowledge & information.

Open some sections of your knowledge system to trusted groups for collaborative growth. Mutual access to insights magnifies everyone's potential.

Develop conventions, open houses & swap meets in your community for ethical exchange of ideas & attribution. **As with all tools, the impact of your second brain & it's resulting thought-space(s) depend on your intentions:** Stay grounded in integrity. Knowledge alone does not guarantee success, near does merely opening the door. **Approached conscientiously, personal knowledge ecosystems which empower society have potential beyond expectation.**



When developed with intention over time, a robust second brain integrated into your life can become an unmatched tool for creativity, comprehension & self-actualization.

By providing an interlinked external space to capture inspiration, build connections & iterate ideas, it enables new modes of thinking & deeper levels of understanding. The resulting knowledge network sparks a unique power, transmuting information into novel insights, perspectives & works that convey meaning & progress ideas.

An evolved second brain elevates cognition from recalling facts to conceptualizing breakthroughs.

It transforms consciousness from consumption to creation. With this foundation, you are prepared to architect the infinite possibility of thought-spaces:





THOUGHT- FORMS:

Approaching Spatial Design

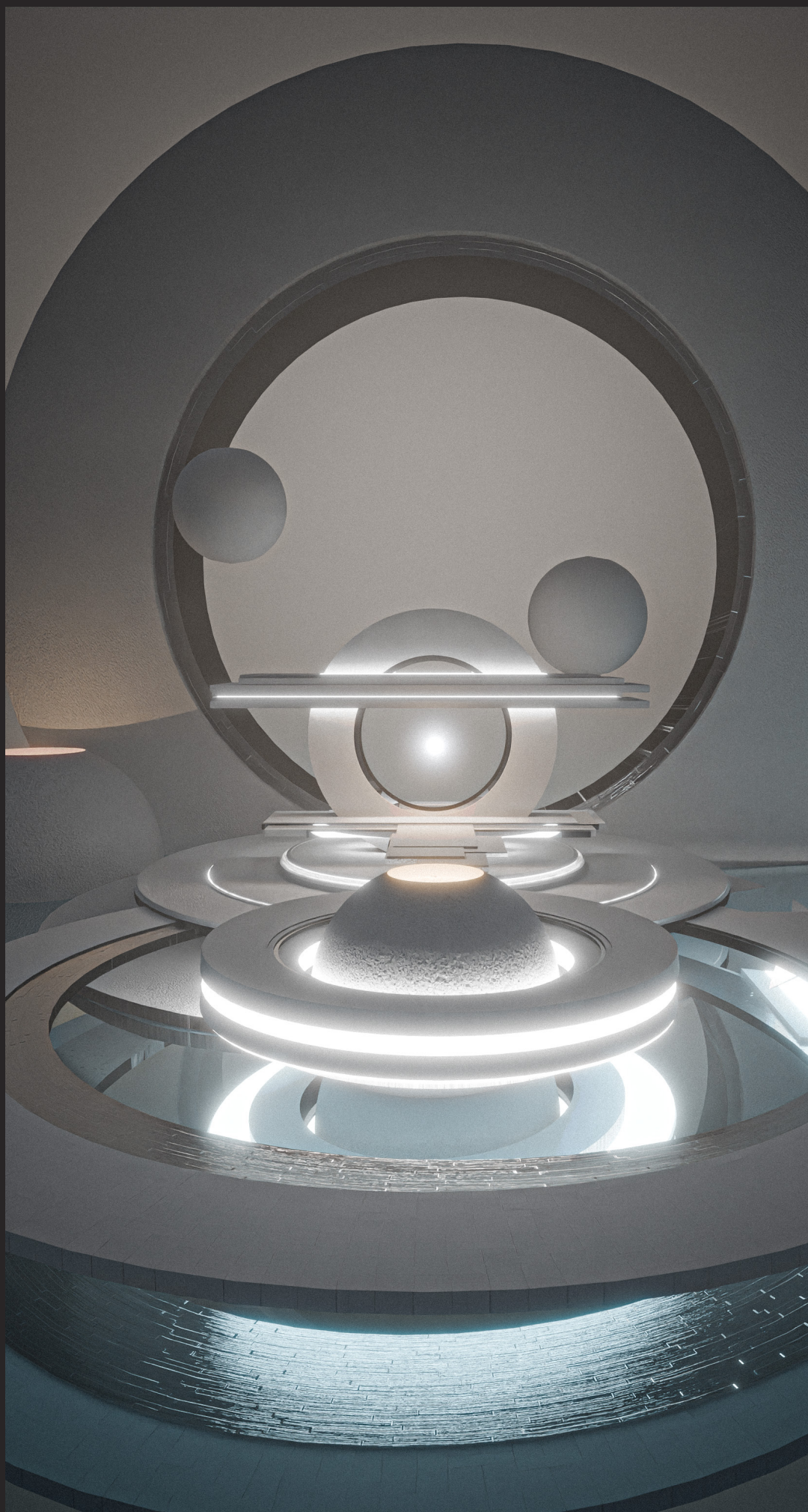


While the rest of this chapter focuses on illuminating fundamental design philosophy for thought-spaces in digital realms & key tactical insights for putting principles into practice, covering technical specifics in granular detail will require a dedicated volume. We will provide tactical advice for constructing effective thought-spaces, grounded in proven design philosophy refined by the House; but we won't dive into technical minutiae or give a step-by-step development guide. Our goal is elevating understanding & intuition for the creative possibilities ahead by first contemplating the very nature of

space,

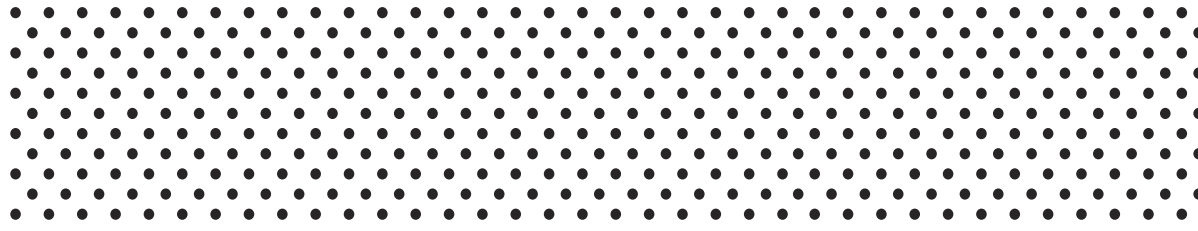
utility

& meaning.



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3 2 0 2 POCKET SPACE III



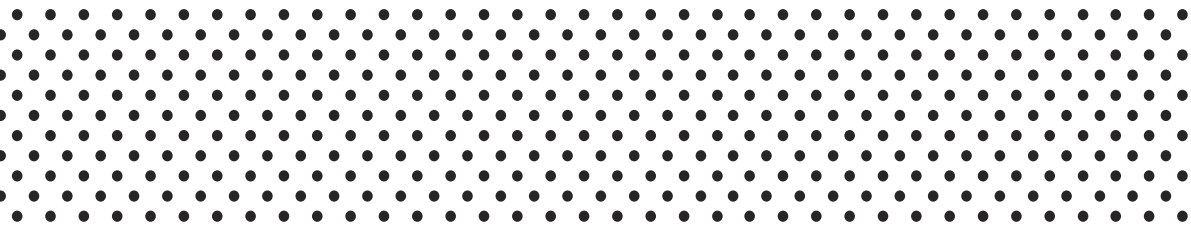
Multidimensional environments designed to extend human cognition & unlock new modes of thinking.

While the term may evoke high-tech associations, thought-spaces can be built in any medium - physical or digital - to enhance our cognitive experience. The core principles remain anchoring these external spaces in human-centered design and meaningful purpose. While many of the design concepts required to create these spaces pull from timeless foundations of architecture & philosophy, in context to this writing & our discussion we are of course, discussing the raw power, capacity & scalability of virtual.

At their foundation, thought-spaces provide interfaces to interact with knowledge. They allow visualizing information & ideas spatially, in layouts resonant with our innate orientation & reasoning. Thought-spaces build on our brain's aptitude for parsing complex visual & spatial patterns magnitudes faster than text & two dimensional perceptions.

Well-designed thought-spaces empower users through intuitive exploration, comprehension through spatial context & multidimensional creation. They can upgrade everything from personal knowledge management to mass online learning. As our second brain manages data, thought-spaces provide the experiential canvas for synthesis. Thoughtful construction allows ephemeral sparks of inspiration to transform into more concrete understanding, productivity & exchange.





In short, thought-spaces extend cognition from the mind's interior outward into an external playground, unlocking capabilities far beyond the brain alone.

Their promise
relies on

human

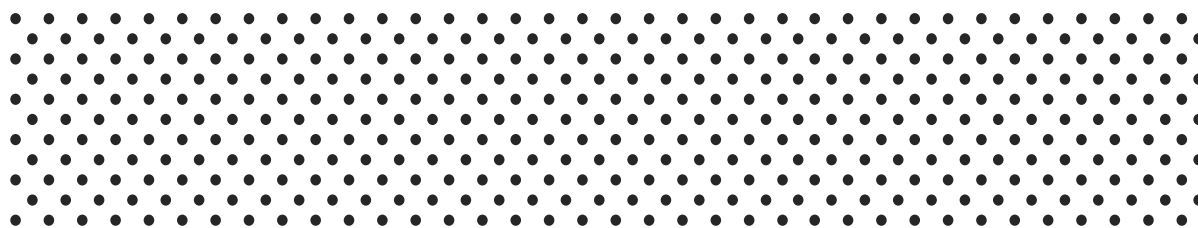
imagination
& curiosity

transforming

empty space

into **opportunity.**





When beginning to build a thought-space, start simple

without getting overwhelmed by technical complexities.

Focus first on identifying your goals & core needs:

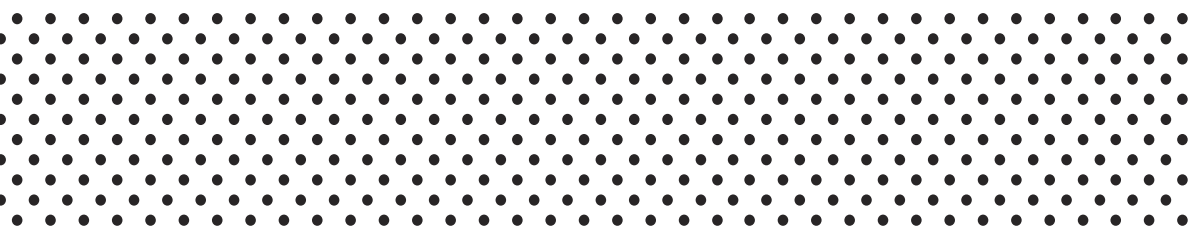
how do you want this space to expand or enhance thinking?

Where studios like ours offer design templates of open environments & modular spaces to populate with your knowledge, data & assets, **I'll be the first to tell you that if worked strategically, full-scale environments aren't necessarily needed. Not at the individual or brand level.**

A skilled designer or curator can easily leverage both free & paid existing 3D assets on the web to quickly create a realm of their own. Dragging thought objects, files & assets around a minimal 3D space can yield surprisingly fruitful results for both compartmentalization of knowledge or presentation for a concept, collection, product or business front, both in full immersive via PC/VR or through cross-dimensional views like A.R. & mixed reality. Extreme elaboration on design space isn't initially, or ever required. Even mapping ideas with simple sticky notes & files on an empty canvas taps into spatial cognition. Visualizing knowledge relationships spatially provides contextual clarity, before adding digital flare, interactivity, communal access or any of that.

Where there's an entire book to be written on the ins & outs of virtual environment design, this one is meant to open up conversation around what these spaces are, can be & how to approach getting started at a fundamental level.





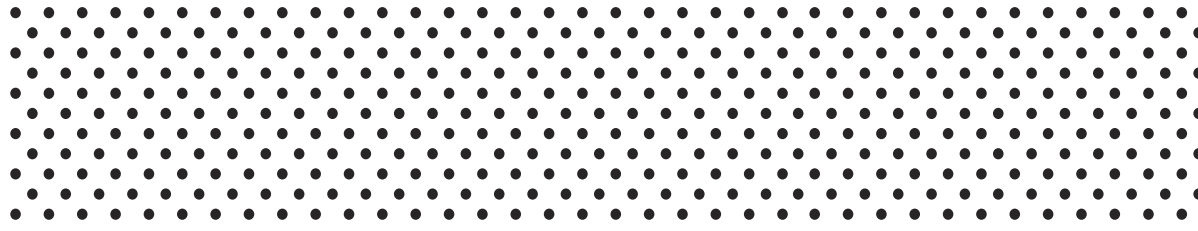
For private thought-spaces especially, a basic prototype can prove powerful if aligned with your needs. Refine the environment as you identify what adds most value *before* expanding efforts & sophistication. Let your thought-space develop with your organic needs guiding its growth.

The blank space represents potential. With clear purpose & commitment to iteratively improving based on experience and feedback, elementary thought-spaces can grow into our most vital tools.

The rest of this chapter provides conceptual building blocks for constructing personal thought-spaces tailored to your needs. While technical skills can enhance your system, we focus on cultivating the underlying mindset & philosophy to thrive in this new frontier of knowledge work & virtual space. The wisdom of thoughtful architecture remains universal.

Everything begins by identifying your true purpose. Thought-spaces lose power when overly broad rather than tailored for your needs. Later, we'll discuss the potential of weaving these worlds together, as you can create as many thought-spaces for as many different purposes as you wish- but to begin, let's start with the core pillars:

Purpose.
Tone.
Shape.
Scale.
Cohesion.



Purpose.

One must begin by asking themselves, *why?*

At the start of every thought-space design comes the question of its purpose.
What is the goal of this space?

Begin by analyzing the space's target users. Will it serve you privately, welcome select collaborators or be accessible by the public? Is the goal oriented toward productivity, creativity, recreation, documentation, or hybrid needs? Envision exactly who will occupy the space & what outcomes you hope will emerge from their interactions within it.

Having a clear understanding of what you intend to do here on a regular basis will make the design process extremely clear in needs & requirements.

Next, articulate the concrete offerings & experiences the space aims to provide. Are you building an incubator for nascent ideas, a portal for exploration, an archive for knowledge artifacts, a lounge for discussion around shared interest? Outline the capabilities & opportunities the space will generate.

Drill into specifics around activities, workflows & rituals you want encouraged. This clarity allows designing affordances to facilitate desired behaviors and traffic flows.

Form follows function when function is well-defined.



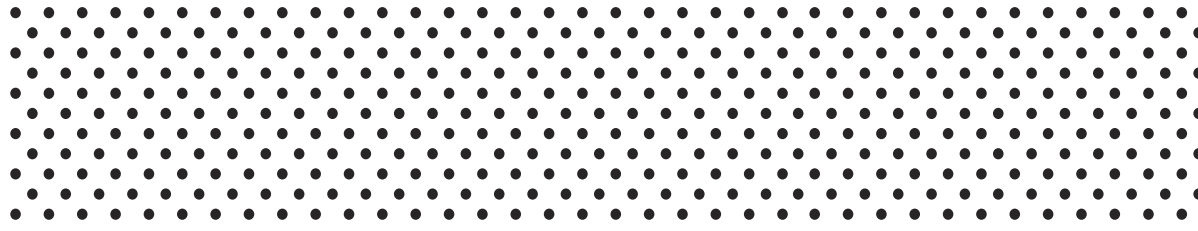
Also examine motivating factors behind constructing this space now. **What personal or professional obstacles or limitations is it designed to transcend?** What potentials do you hope it unlocks?

Revisit and refine your understanding of purpose continually. As spaces evolve organically when first brought to life, continuing referral back to origins safeguards integrity.

No element should be added without consciously confirming its alignment with underlying aims. Be relentless about keeping purpose the gravitational center that decisive design orbits around.

**Only with clear intent
can elevated architecture
take form.**

**Be relentless about
keeping purpose the
gravitational center that
decisive design orbits
around.**



Tone.

A thought-space's tone is established foundationally through its textual elements - how you describe the space, invite participation, guide experience, label elements. These linguistic cues shape expectations.

Think about the space in language reflecting intended activities. A professional productivity hub warrants formal explanation of features, resources & offerings. A creativity sandbox can take on a relaxed, inviting tone.

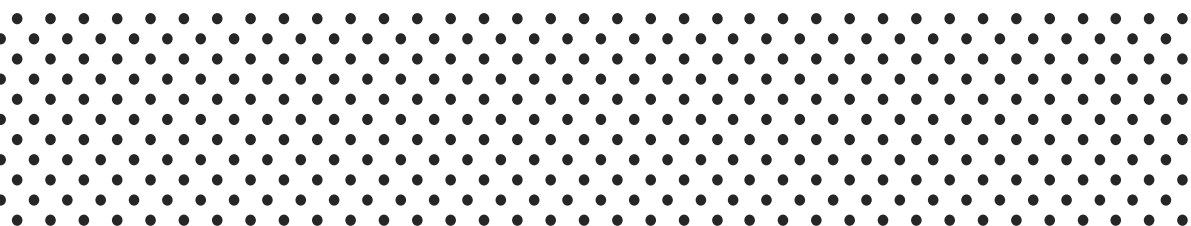
Verbiage should illuminate intended possibilities. An exploratory space focusing on discovery & wonder uses prose & labels geared to invoke curiosity. An incubator space for ideas requires prompts & descriptors that encourage specific behaviors.

Terminology introduces concepts & sets norms. Clinical & technical language implies rigor while organic and accessibility-focused phrasing builds comfort. **Language carries meaning.**

Information design also contributes - infographics, multimedia usage guidelines, welcome boards. Well-crafted text introduces without overburdening.

Clarity enables momentum.





Writing provides a vector to manifest nebulous purpose into definable experience.

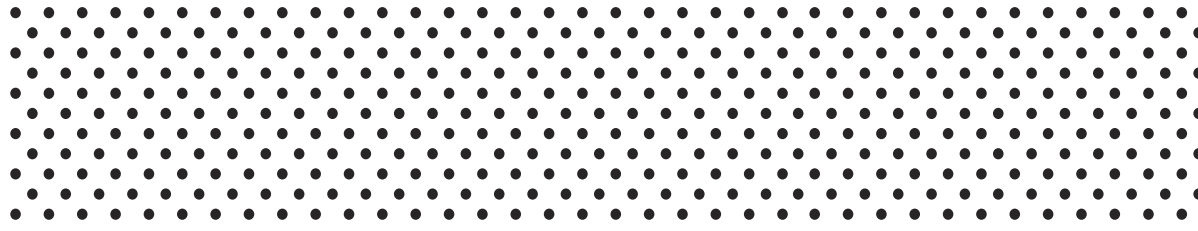
Whether informational, entertaining or conversational, **text couples purpose with personality.**

Deeper immersion comes later but language primes first-impressions. Words map the terrain ahead. Descriptions set expectations so reality can exceed them. Writing transports minds before any virtual step taken.

Our now built knowledge management systems make populating personalized thought-spaces feel intuitive. The conceptual pieces are captured & organized upstream, enabling coherent spaces downstream.

Consistent notetaking builds reserves of ideas to integrate into thought-spaces. Tagging & linking notes structures information ready for spatialization. Collecting & creating media via pipelines discussed at the beginning of this book provide assets to easily activate & iterate these environments.

Without diligent knowledge management, thought-spaces often start as blank voids lacking the raw ingredients for expression. *The void stares back vacantly rather than welcoming pre-built momentum.*

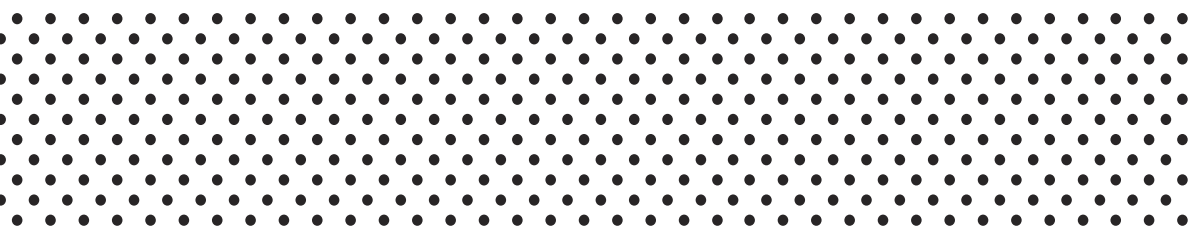


Populated second brains overflow with building blocks ready for assembly.

Thought fragments finally find form & function within spatial, interactive planes. Discoveries once erased from memory become artifacts & assets cataloged & compartmentalized or placed on pedestals for visual installation. Literally speaking, even a simple wall of text could do this.

Our growing second brain continuously supplies materials thought-spaces need while structuring information for easy **deployment**. Spatial content organization directly builds on no-tetaking practices. Second brains also house matured domain knowledge to inform thought-space tone. Your accumulated references, influences and muses provide the palette for language, cultural & later aesthetic choices. **Just as your notes shape content, your knowledge portfolio inspires presentation. Prior writings, creative works, favorite films & artworks: all influential media providing intuitive prompts & assets when crafting spaces.**



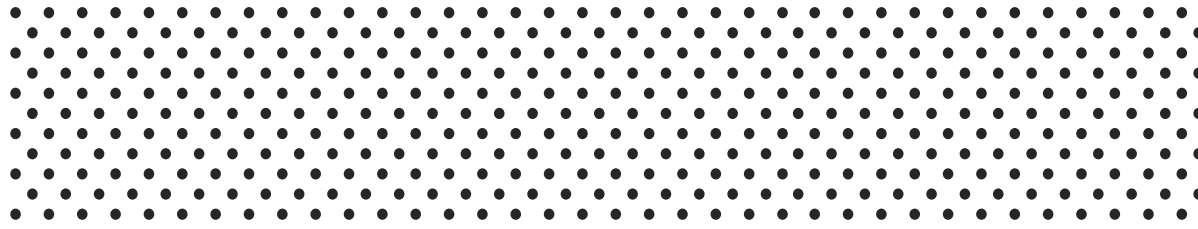


For example, A love of abstract expressionism's bold hues & shapes readily provides the basis for a vibrant space & language rather than cold minimalism. A preference in spiritual philosophy guides more mind-expanding motifs over clinical ones.

You need not start visual design from zero but rather sample from your cataloged tastes & sensibilities accumulated over time. **Your thought-space tone reflects learnings already contained within your second brain's ever-growing repository.**

Of course, designing wholly new styles independent from prior influences remains possible. But second brains provide convenient springboards into resonant atmospheres. Purpose finds form faster by referencing your treasured knowledge & observable taste.

After tapping your second brain for resources and inspiration to define purpose and tone, next comes giving **shape** to raw materials based on your desired utility & inherent values.



Delve into the art & personal study of structuring & placement of second brain assets & information within thought-spaces to shape experiences. Every object & asset holds innate spatial impact - vectors & influences that guide motion & attention.

Master architects wield these intangible forces through intentional placement.

Begin by studying your assets & their natural magnetism. What makes them special? Certain objects draw focus while others recede into periphery. **Some forms inspire movement while others still the mind for contemplation. Observe how users respond to assets in space over time.** Begin examining desired sightlines & perceived light sources. Sunlight holds life-giving significance across eras & cultures. Bring users on considered journeys from areas of shadow into enlightenment. **Consider placing community spaces at network crossroads to encounter diverse ideas while introspective, work focused environments benefit from distance.**

Density of objects & scale impacts pace, progression & pulse. Set design rhythm through environmental contrasts - compression then release, wonder then familiarity, private then public, dark then light. **Energize minds with multidimensional progression.**

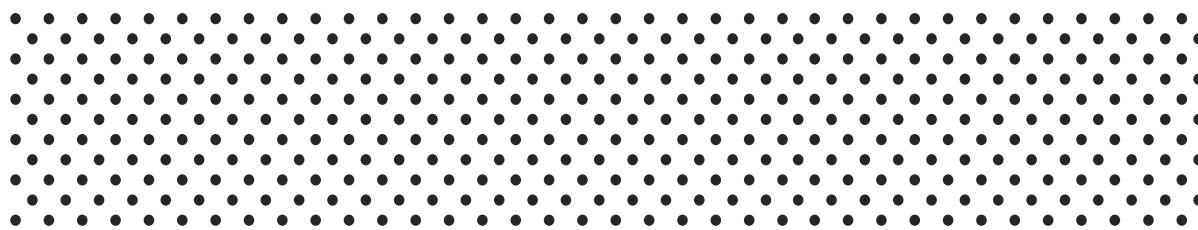


**No single formula exists;
thought-space blueprints
rely on studying human
spatial intuition &
response, then
crafting accordingly.**

Remain grounded in presence & humanity as
your guide. **The impact of spaces lies not in
what they contain externally but how they re-
shape visitors internally.**

Deliberate placement transports minds & cata-
lyzes communities.

**Wield location, direction,
& geometry to unlock
the cooperative power
inherent in shared paral-
lel space.**

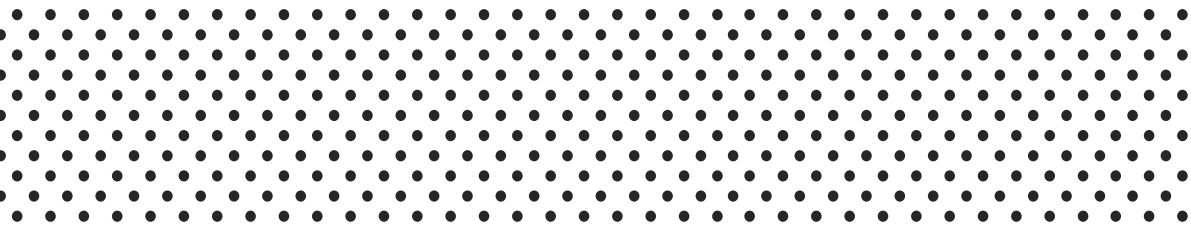


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carry symbolic

weight & guides usage,



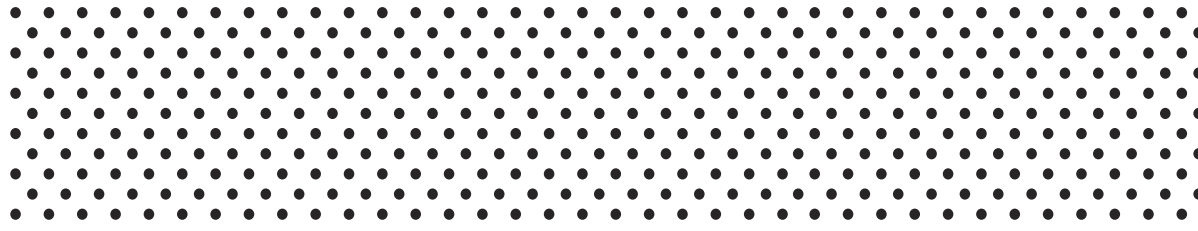


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**Consider
which
qualities
each shape
inherently
conveys,
then leverage
their essence
strategically
to reinforce
purpose.**



Circles

carry first & foremost: a sense of the infinite. At a base level, they encourage community, unity & egalitarianism. Circular forms imply convergence, cyclicity & wholeness.

Circles elicit collaboration by removing perceived hierarchy –
everyone is equidistant from the center.

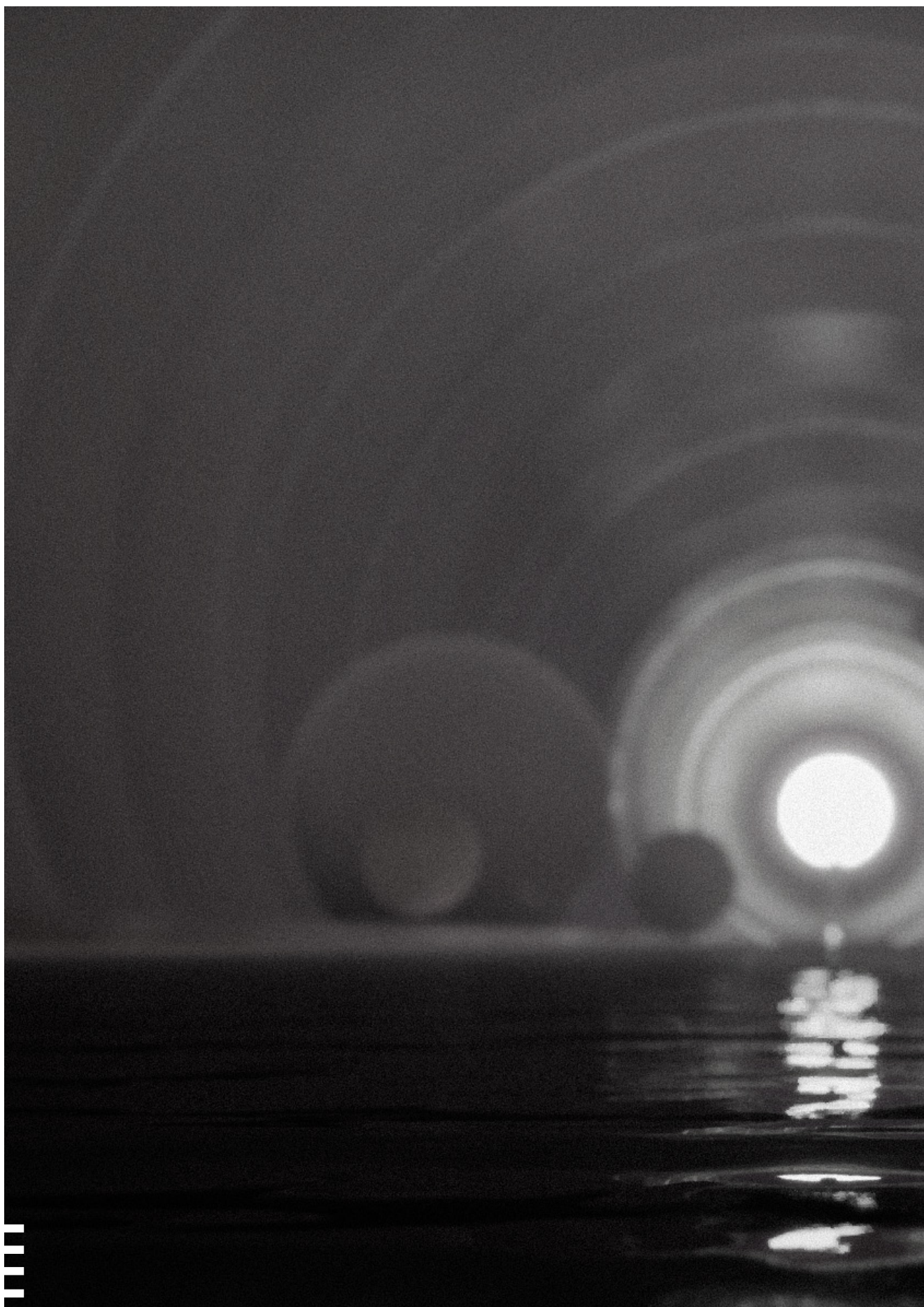
The circular Amphitheater maximized both community & acoustics, modern roundtables remove end seats to host inclusive discussions. Circular stadiums wrap fans into collective witness, revolving theater stages unveil scenes.

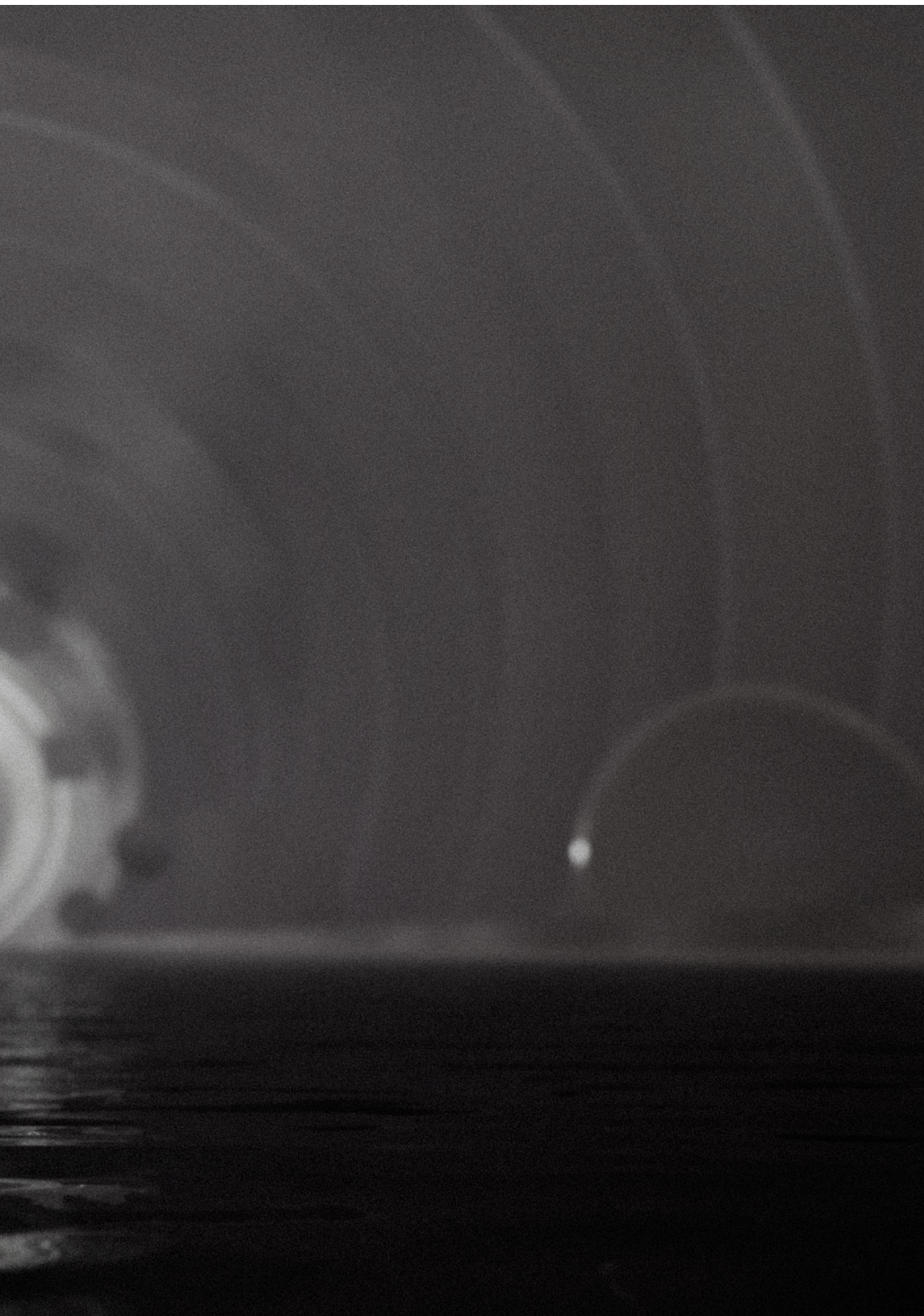
Circles contrast infinite potential with contained order, both working hand in hand harmoniously. Position circles strategically to envelop participants into shared experience.

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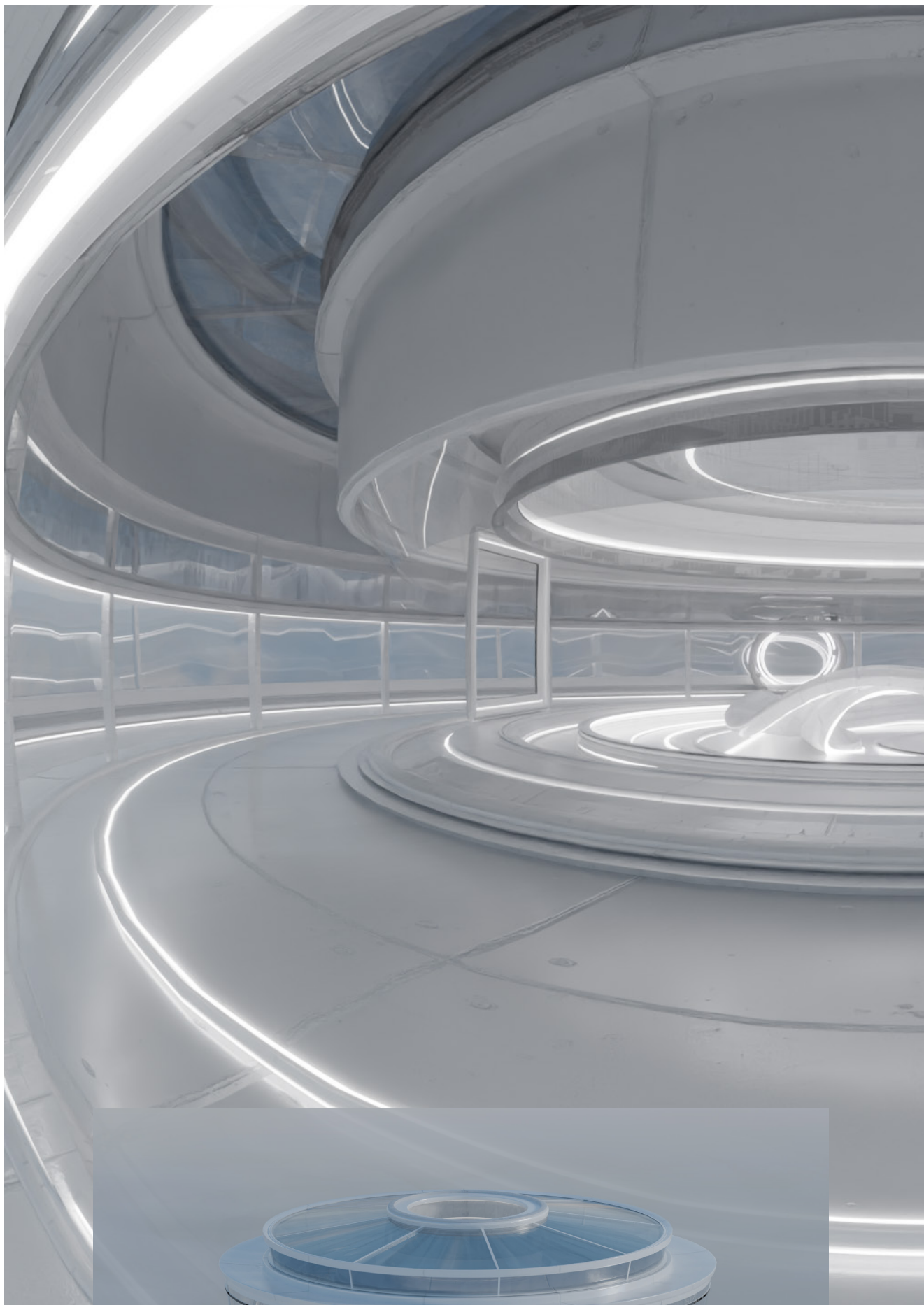
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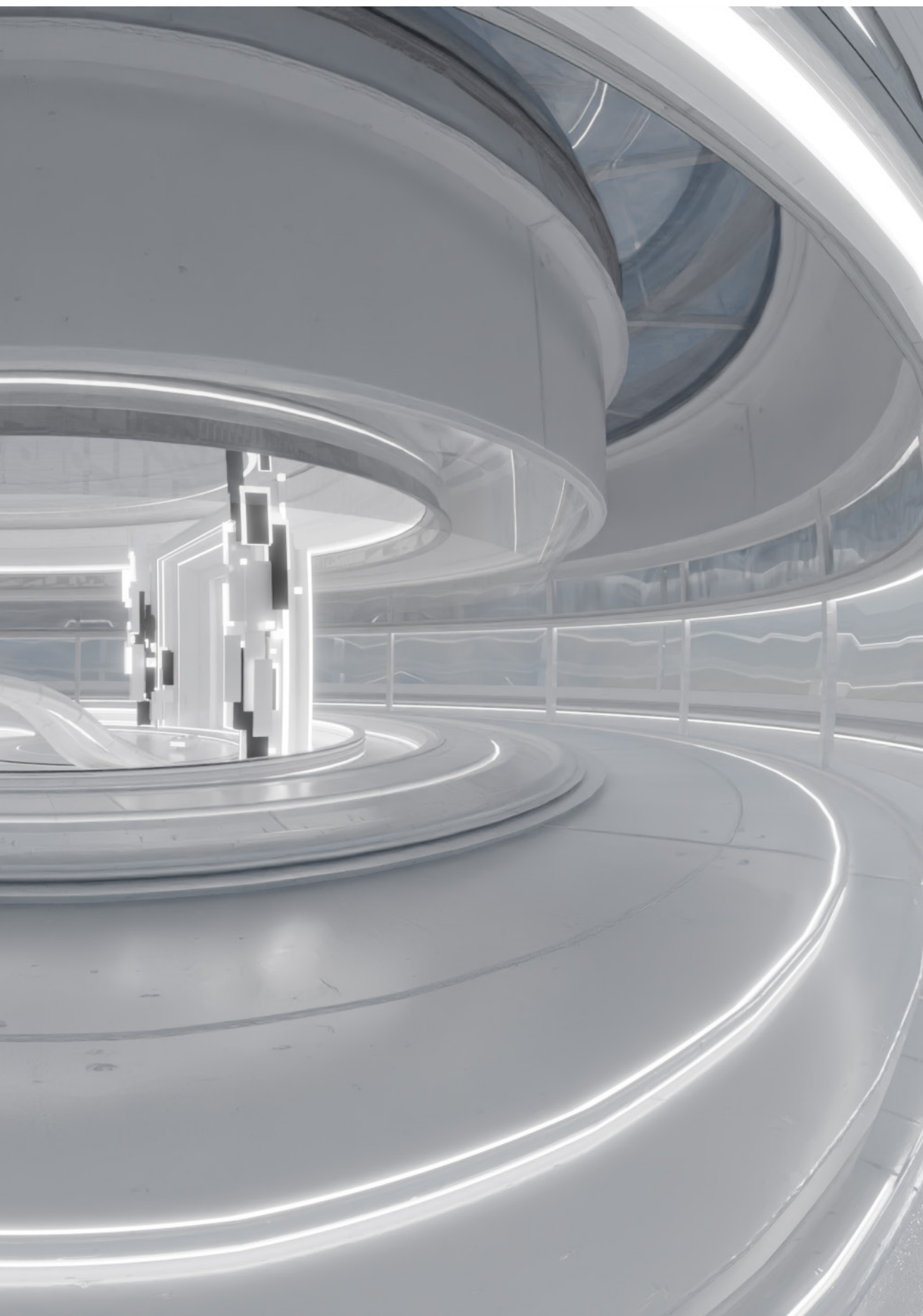
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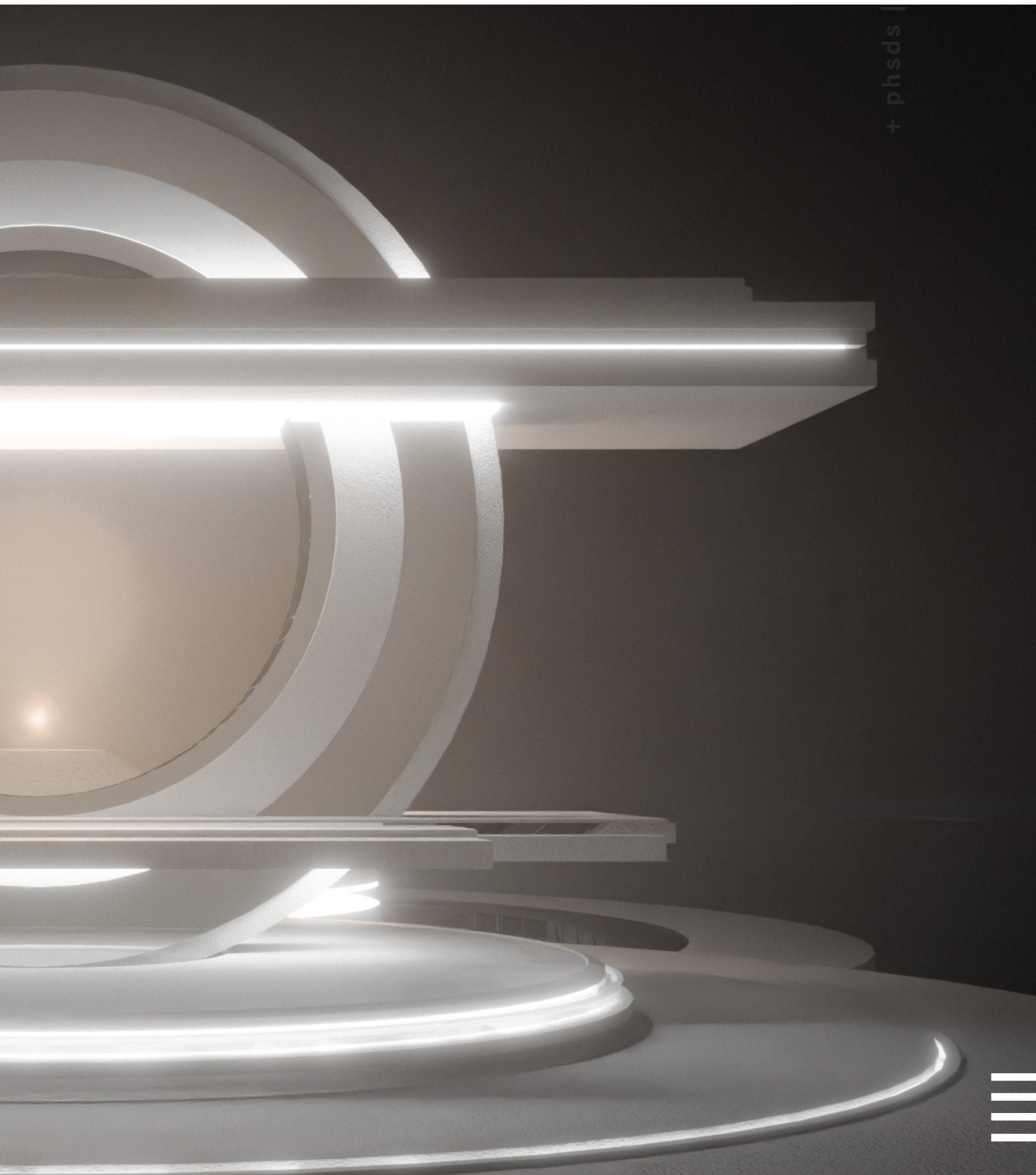


"SKY LOUNGE" | NETWORKING CENTER | 2023

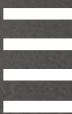


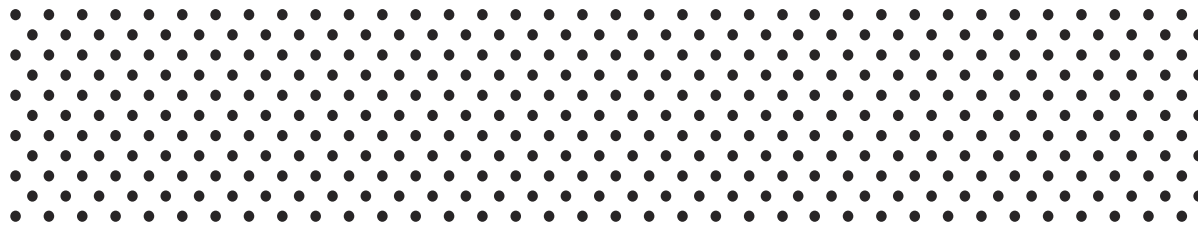
"POCKET SPACE III" / 2023





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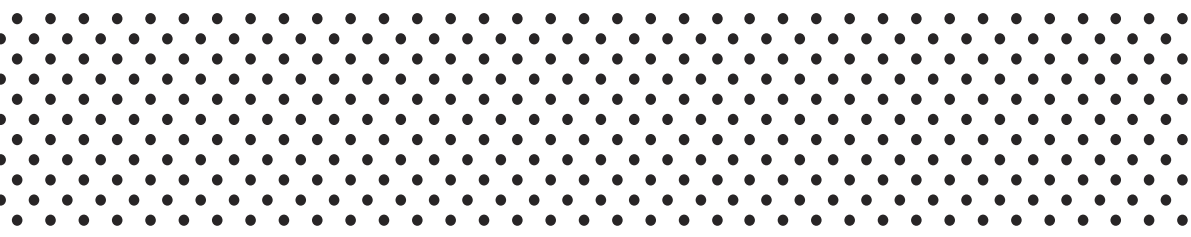


**Mythologies worldwide
feature creator gods
birthing the cosmos from
primordial eggs or spheres.**

**Zen ensō circles express the
universe in a single brush-
stroke. A ring enclosing
Metatron's cube implies
metaphysical interconnection
alongside spherical,
multidimensional awareness.**

**Physics itself structures
reality through circular
motion - orbits, cycles,
spins, spherical atoms
& electron fields.**

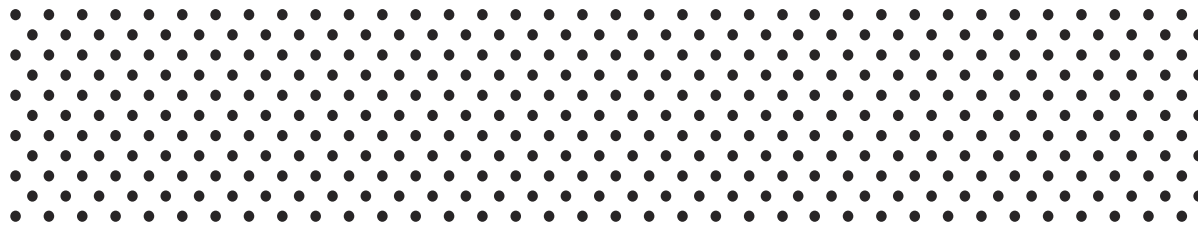




**Circles
reflect &
enclose the
undercurrents
of reality.**

**Choose
thoughtfully
where to guide
& invoke their
influence.**





Squares & Rectangles

Represent
Platonic rationality,
conveying structure,

| boundaries, |

pragmatism & *order*.

Their proportional symmetry & intersection

of perpendicular lines provide logical integrity. *Blank voids are parsed into tidy grids, delineated lots & civil quadrants.* The urban grid organizes chaotic human activity into orderly streets **navigable by logic over intuition or memory.** Roman military camps were highly structured square grids allowing efficient coordination. Office cubicles, city blocks & desktop app windows tame space into orderly rectangles. Legal documents confine prose into rectangular margins & paragraphs.

We don't think about this compartmentalization often, but it's happening every day at a subconscious, often visceral level.



Leverage squares & rectangles to construct, compartmentalize & make navigable.

Frame orderly interfaces & infrastructures within their reliable right angles, let intuitive design flourish within.



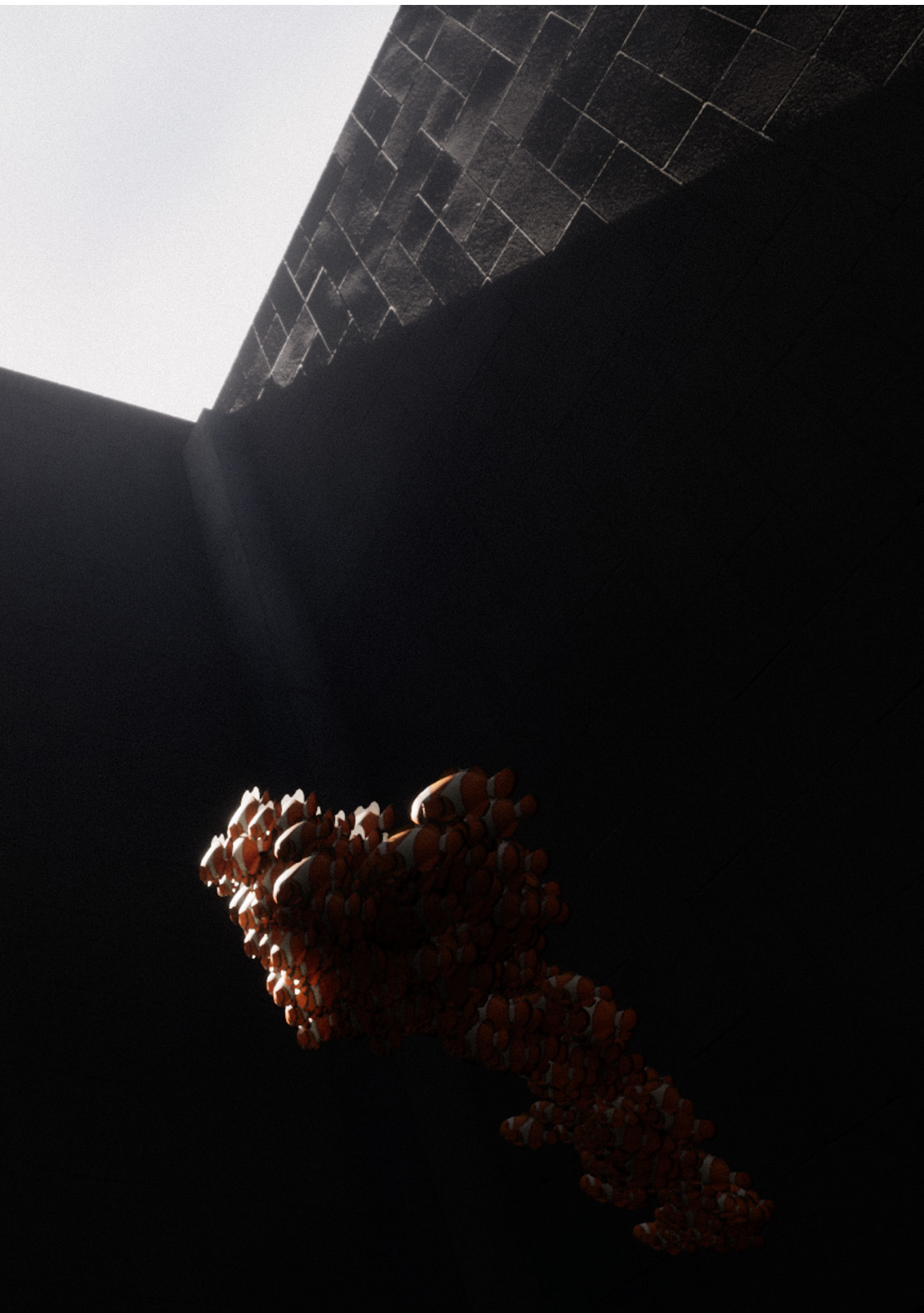


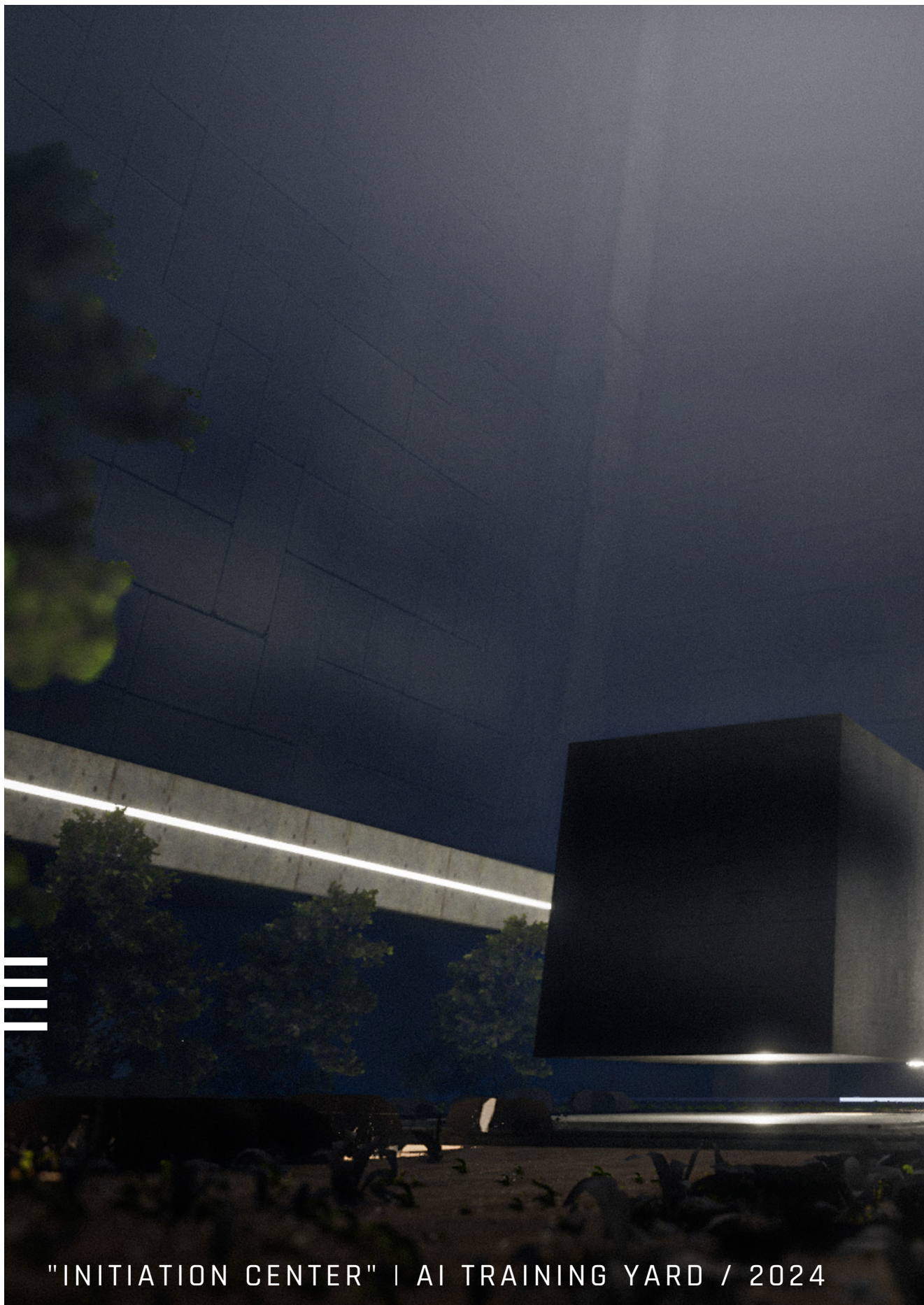
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"INITIATION CENTER" I
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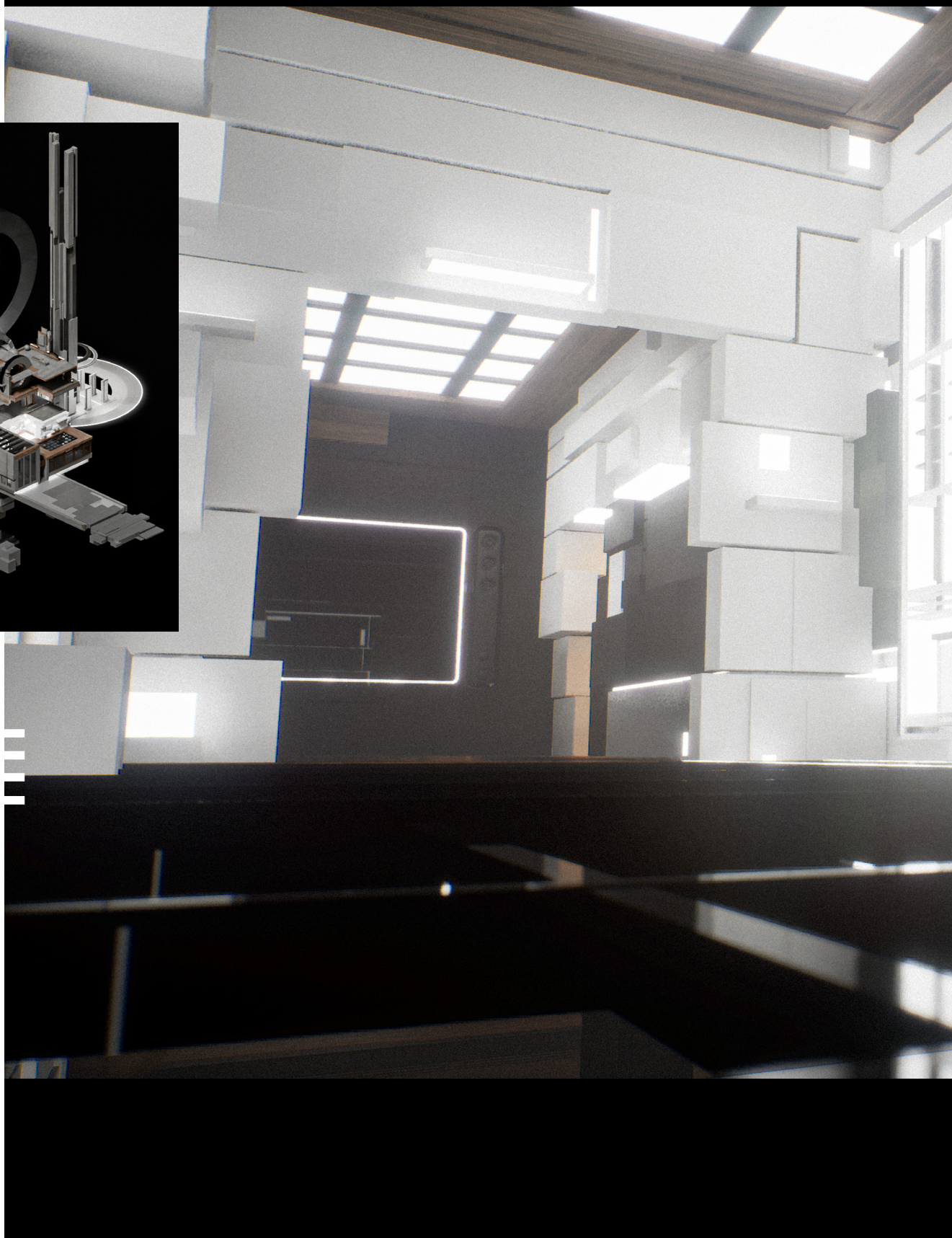
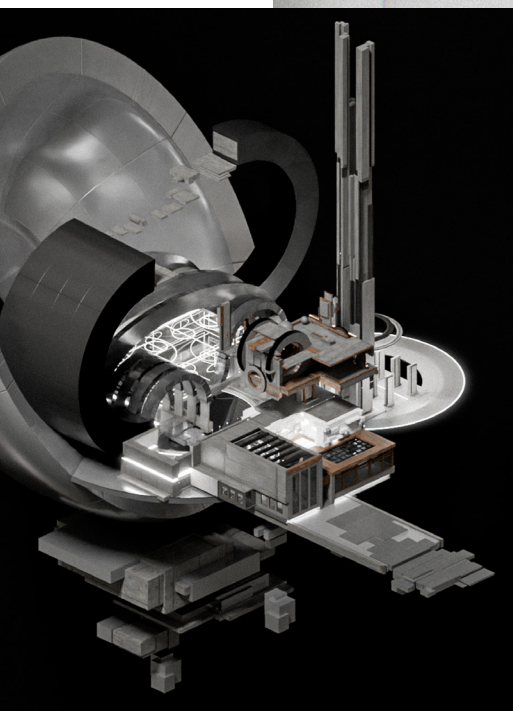


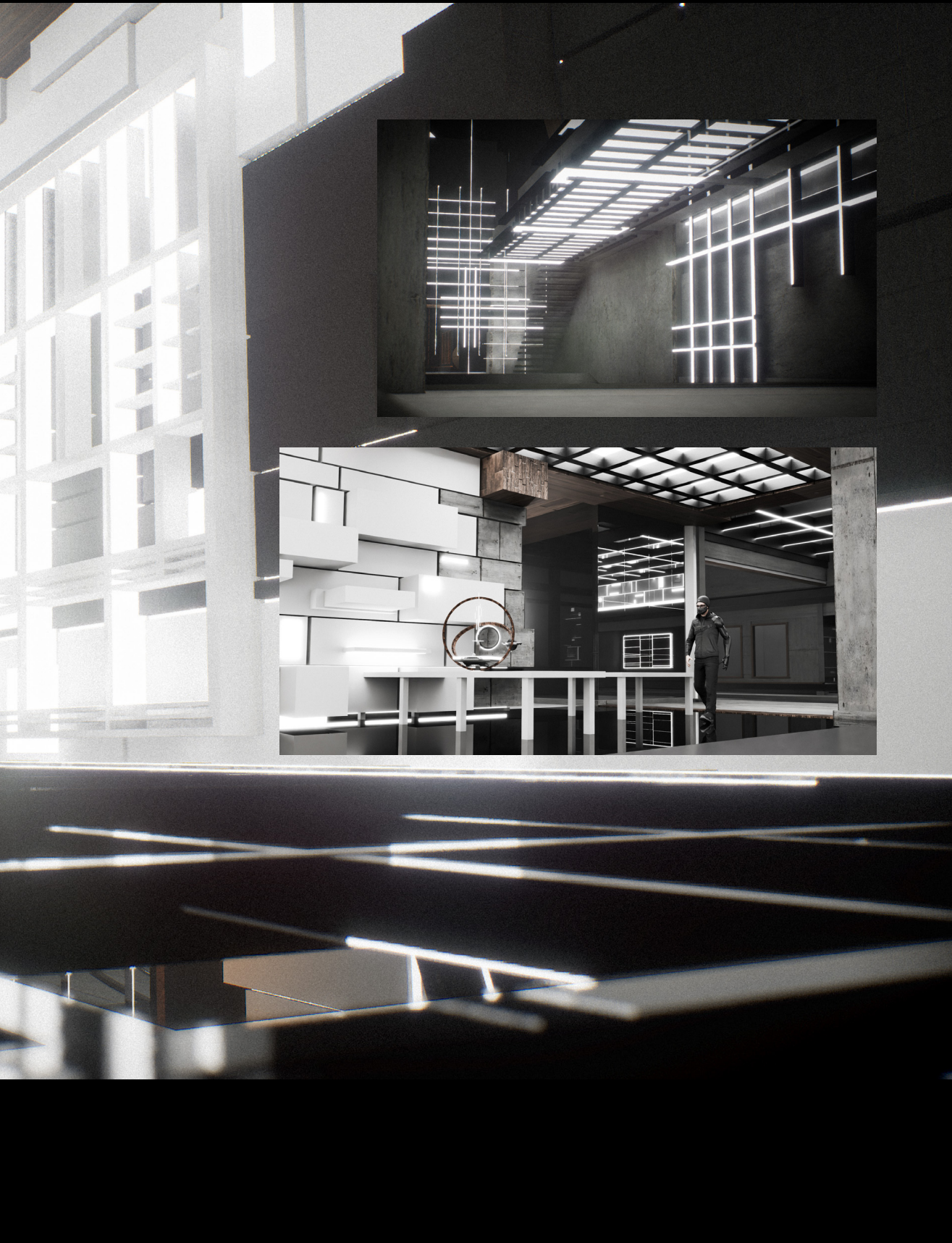


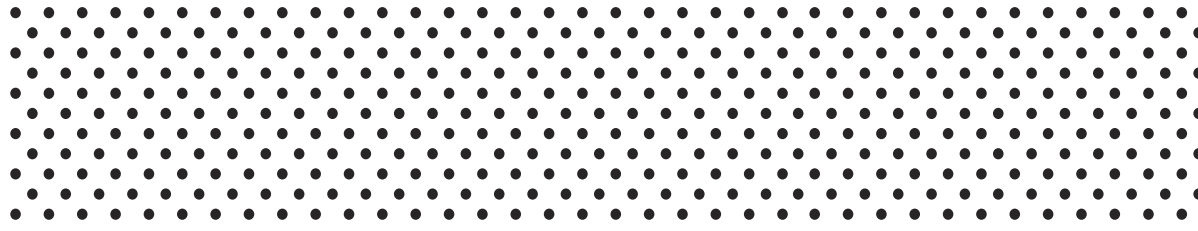
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"THE BRIDGE" | COMMUNITY HUB / 2023







Foundational squares confer pragmatism and security while risking rigidity. Square philosophies applying singular blanket logic risk overly reductionist thinking.

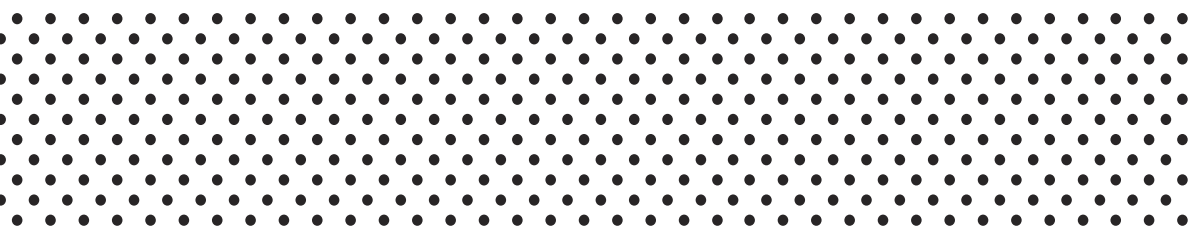
Reality's organic complexity exceeds encapsulation within manmade square borders.

Balance square's structural integrity with circular flow. Embed industrious squares within sweeping amorphous forms. Juxtapose discipline & imagination. Boxes ordered yet outside them, free-ranging circles.

Without fundamental squares, foundations crumble.
Logic grounds creative soaring.

Within thought-spaces & virtual environment design, Reality's emerging forms remain open for Definition - guide their growth with intentful experimentation.





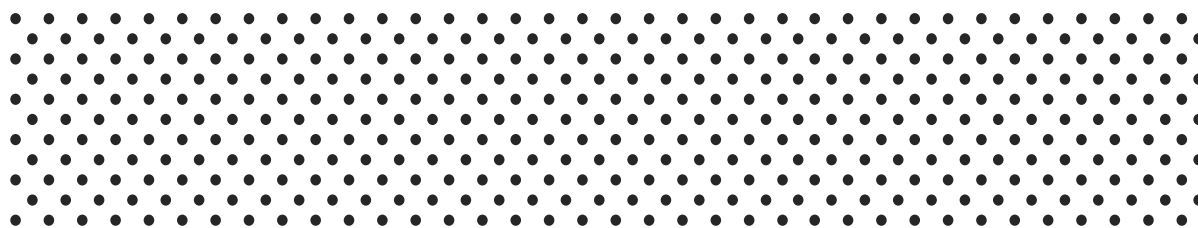
**Spatial thought implodes
dimensional pondering.**

**Do cubes focus purpose
or diffuse it sixfold? Do
spheres enlighten or
encase?**

**The answer is never one
or the other.**

**We must carefully evolve
the very concepts of
visual thought design in
context to worlds
created in an ever
expanding web.**





gArTi sALenS

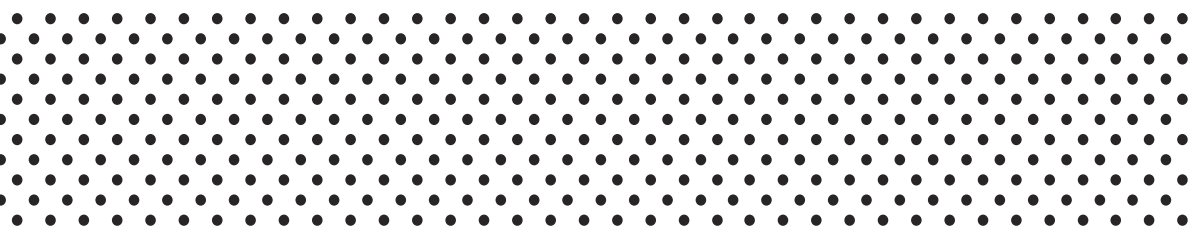
imply direction, action, progress & conflict. Their symbolic stability emanates from a sturdy base tapering to a singular apex focused purposefully forward. Arrows, scissors, shark fins & plane wings all leverage the triangle's durable geometry of momentum in their own universal ways.

Where squares and circles enclose, triangles lead, open & penetrate.

Their geometric urgency comes from essential flatness easing acceleration unimpeded. Projectiles burst forth swiftly when aerodynamically triangularized. Aimed thoughts channel directly outward with triangular impetus.

Triangles evocatively cleave & lead space. Consider how both triangular lights & silhouettes wrapped in mystery imply foreboding in horror films, or how triangular framing of characters & scenes can guide viewers eyes with precision that lands subliminally.





Lester Beall's pioneering graphic design leveraged bold triangles piercing through flatness into active optical dimensionality. His amalgamative designs triangularized compositional focus & eye movement to amplify dramatic tension & immediacy. Regardless of the medium, triangles serve as strong actors for focus, direction, separation & tone.

Triangular perspective focuses viewing deeply into three-dimensional space, vanishing distant points concentrically toward the horizon.

Our very perception is grounded in pyramidal visual ray convergence.

In thought-space design, thoughtfully position triangular shapes to draw awareness & motion strategically through environments. Guide wandering minds gently yet firmly in desired directions using triangular signifiers akin to an archer's shot or familiar gps navigation. At a sublime level, the tone & intensity of the triangle can be used with discretion in any direction: focused, uplifting, aggressive, ominous.

Intent & information provide context & purpose - shape & placement provide universal, visceral language & tone.





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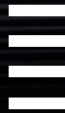


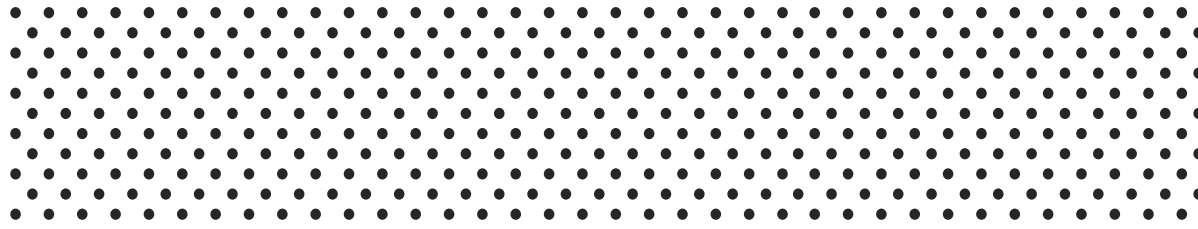






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While symbolic stability emanates from triangles' sturdy broad bases, inherent danger lurks at their narrow tips. Though strength derives from focus, destructive violence also concentrates force triangularly. **Be ever mindful of triangles' dual potentials for both construction & destruction. Guide the energy concentrated along their linear trajectories thoughtfully.** A triangle's power derives wholly from its architect's wisdom or lack thereof.

Circles embody community through continuity, enclosing participants equitably. Squares enable logical structure & navigation via clean perpendicularity. Triangles imbue action by focusing movement vectorally along their tapering edges. In harmony, these elemental forms allow designing thought-spaces that engage our minds through strategic balance.

Circle segments promote flow between orderly square compartments. Triangles lead vision & traffic purposefully through the interplay. **Just as our mental processes integrate fluid, structured & directed thinking, thought-spaces integrate fundamental shapes to craft resonating external cognition.**

Second brains provide the raw materials while shapes supply the containers to organize knowledge & inspire insight. With practice, constructing thought-spaces feels as intuitive as thinking itself.



Of course, myriad other aesthetic dimensions await exploration, from higher platonic forms to fractal geometries & procedural shapes.

Grounding in circles, squares and triangles establishes a baseline alongside the basic visuospatial grammar from which to articulate meaning for the novice & journeyman.

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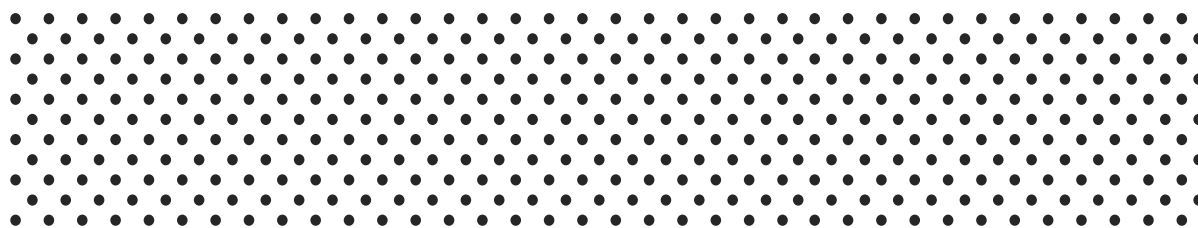




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"YARD IV" - 2023



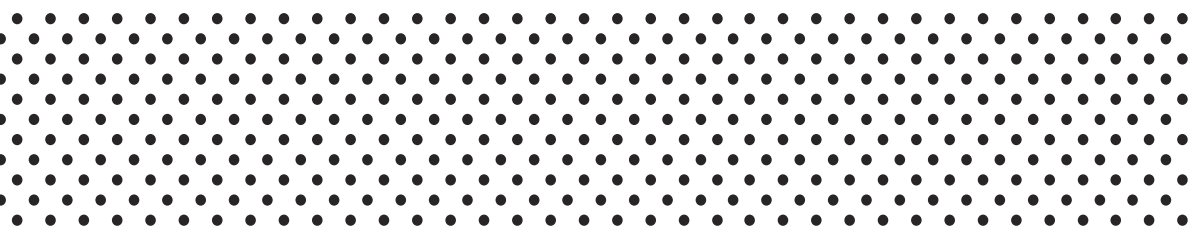
SCALE establishes presence.

Virtual space offers boundless scalability, from intimate to unquantifiably vast. Consider how scale influences engagement: Monumental structures signal importance through sheer size. Sphinxes & pyramids dominate landscapes, humbling observers - Yet cavernous spaces risk vacuity without occupants to emotionally fill voids. Conversely, cozy spaces provide shelter but risk confinement if pushed too small. Consider ergonomics but avoid claustrophobia. Throttle & open scale to match intended use.

For personal thought-spaces, moderate scale strikes an ideal balance between focus & expandability. Users feel both welcome & wonder. Productivity flows without drowning solitary individuals in the startling feeling of overwhelm at the beginning.

For groups & organizations, grander scale fosters collective exchange & discovery. Soaring social hubs uplift communities when scaled to gather comfortably. Participants energize environments & transform them into living, breathing ecosystems.



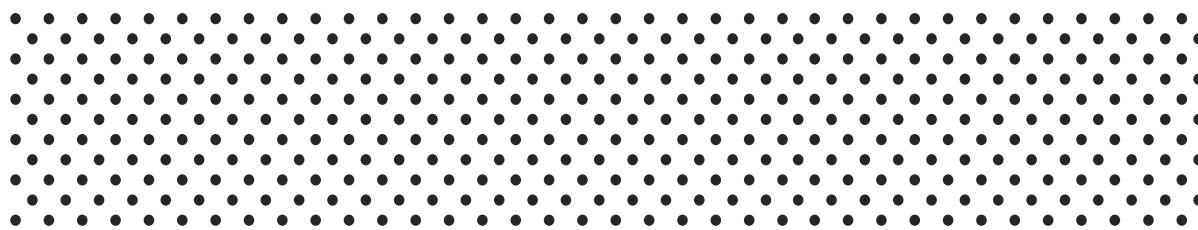


Unlike physical architecture, virtual scale is freed from pragmatic constraints. But ergonomic intuition remains critical. Rethink scale in terms of context, usability & utility.

Default spatial web scales often feel slightly askew - like gigantic furniture, cramped doors & irregular pathways. Where for the right artist this may fit their profile, it's important to **think about designing these spaces in a way that makes users feel at ease or energized upon entry & leaves them longing for return before departure ever happens.**

First impressions make a difference. **Immediate value & tone are provided through assets stored, exhibited & produced - shape works as their guiding container - scale gives the container utility, elegance, familiarity or a strategic lack thereof.**

Reimagine proportions based on authentic human movements & sightlines for familiarity, then deviate as needed in context to the platform, purpose & needs of the space. Test interfaces across devices & views for a clear awareness of what visitors will experience across the spectrum of access to the spatial web.



Provide breathing room

for avatars, assets & spatial UI. Let users fill negative space rather than cramming it. Consider how groups will gather & occupy volumes. Reshape reality's constraints to empower through scale.

Leave room for empty space. In the gaps between ideas, serendipity finds fertile ground to sow new connections. Resist the urge to over-design or over-populate thought-spaces unless their core aim is to be a visual archive or an architectural feat. Let your environment breathe & evolve.

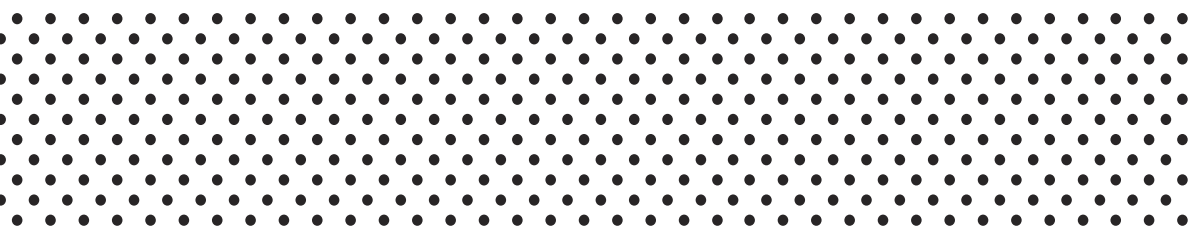
It's worth noting that in most scenarios, there is a limited number of spaces available for real-time interaction. Depending on the platform, current options allow anywhere for 50-100 users in one space on average. As time moves forward, headsets, graphics cards & associated hardware get smaller, faster & more affordable - I see this number increasing exponentially. For the sake of fundamental thinking without getting stuck on specifics that won't age well, let's take this thought into account regardless of time:

It's important to scale spaces & their active event areas in accordance to the expected participation size. In the right design, 50 guests in a room can feel like a packed house in the perfect way.

Now flip the coin: in a vast, open space: you'd need thousands of guests to visually fill the void of your target zone. **Scale is a balancing act.**

Further manipulate scale to tune priority - monolithic central assets direct focus surrounded by fragmented details. **Relative size relationships guide attention. Juxtapose scales mindfully.**





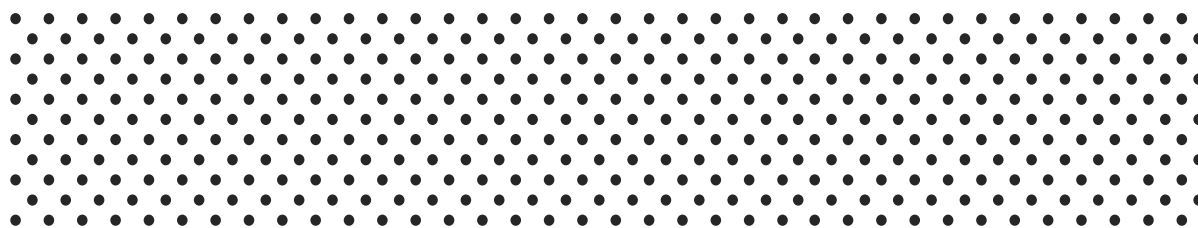
Also consider kinesthetic & emotional impacts of standing before **MASSIVE** constructs impossible in reality. Allow users to transcend bounds through virtual enormity or miniaturize them into intricate worlds for new perspectives.

Recognize that awe emerges from grace & care at any scale. Deliberately balance sprawl with intimacy, vastness with familiarity. Tend each detail attentively even in thought-cathedrals stretching out to the horizon.

Making visitors feel centered should take precedence over imposing environments unless of course, that's what gets you there or teaches you in the moment. **Thought-spaces provide us a chance to create genuine landmarks in non-physical reality.** Guide users toward empowered scales resonating with the mission of the space.

Virtuality offers direct control over size, weight & presence. Shape scale thoughtfully to uplift users or consciously impose. **With practice, scale's power to stir emotion & focus intention becomes second nature. Progress mastery of scale from body to environment & beyond.**





Cohesion

operates beyond physical realism.

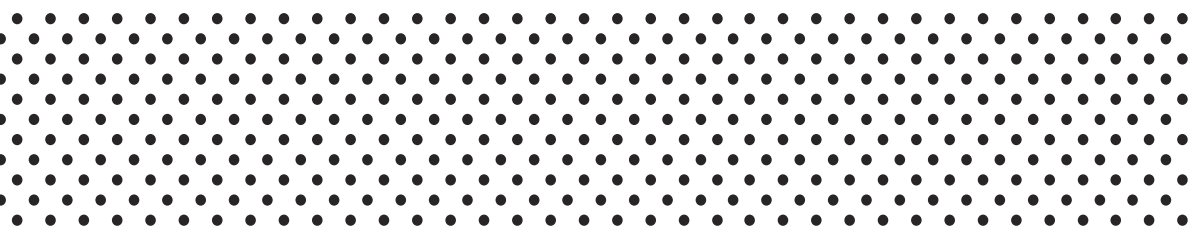
Thought-spaces are free imaginative reign, **weaving coherence on their own terms by purposefully crafting sensory experiences that resonate subconsciously. It's something that is felt, not quantized. Successful application of the initial pillars are manifested in visual, visceral & psychological cohesion.**

Light establishes tone & revelation. Spatial sound kindles momentum & atmosphere. Organic textures breed familiarity, experimental, digital materials open up new concepts of what environments can be with virtual space as a medium. Intuitive self-motion sustains presence. **Responsive environments feel alive through strategic sensory engagement.** Repetition provides identity. Signature navigation motifs & UI choices breed effortless flow. **Consistent color & textural palettes create conceptual gravity through color, geometry and materials. Worldbuilding lore steeps users in unifying narratives.**

Thoughtful juxtapositions spawn dynamism within cohesive frames. Contrast reveals through variations in lighting, scale & information density. Rhythmic fluctuations keep experiences engaging within reliable environmental structures.

Begin by aligning all facets with core purpose and tone. Maintain coherence evaluating how elements inform intuitive experience. Let *how it feels* guide - coherence derives from experiential resonance, not accuracy.





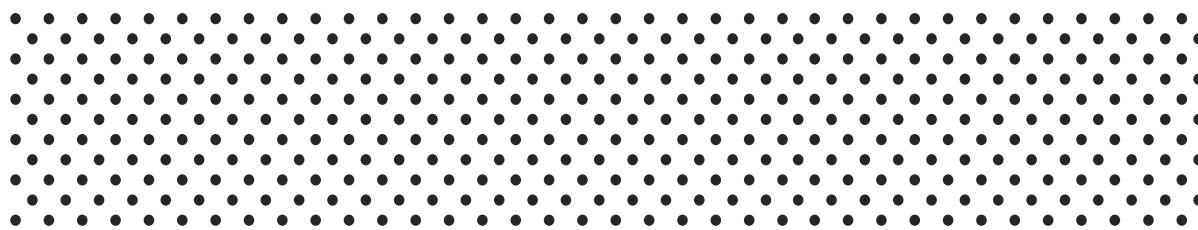
Dreams immerse us in improvised yet cohesive realities by artfully stimulating core environmental faculties - sight, sound, touch, motion. Thought-spaces should similarly target key senses through design fundamentals.

Balance familiarity with surreal novelty by introducing new dynamics within recognizable rituals & sequences. Guide visitors first through common spaces before unveiling secret realms. *Pace revelation*; establish expected before exceeding it. By aligning each component to a unified experiential vision, thought-spaces become more than stage sets, but plausible realms unto themselves.

By artfully conducting stimulus, we generate spaces that feel subjectively real on their own terms. **Skilled cohesion integrates disparate concepts into ecosystems where each part relates to a greater whole.**

With this compass directing design, thought-spaces manifest as homes for the mind - Maries resonating long after their maker's departure. By working in union with human faculties, spatial computing promises worlds without seams

**- creating the space between space -
the unfoldings of our inner realms.**



Light

plays a crucial role

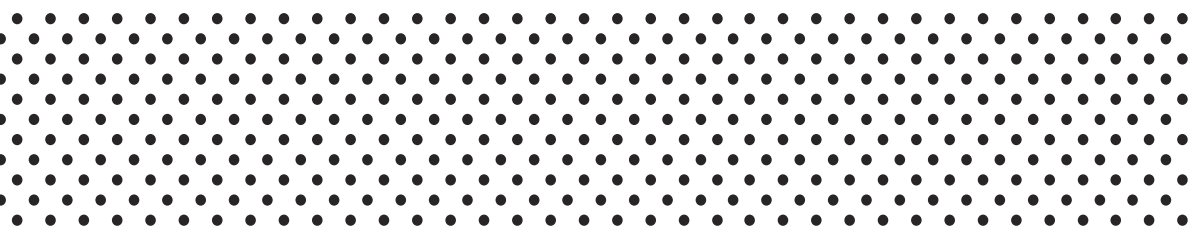
in shaping our experience of space, physical & virtual.

Carefully considered lighting can evoke moods, highlight key elements & create a sense of depth & dimensionality. Warm, soft lighting can foster a welcoming & contemplative ambiance, while bright, high-contrast lighting can energize & stimulate the mind. Directional lighting draws the eye to important features and pathways. Experimenting with shadow, color temperature & intensity allows designers to sculpt the emotional tenor of a space, directly influencing how users engage with the environment. Thoughtful lighting is a powerful tool for crafting immersive experiences that resonate on a visceral level. More than mere illumination, light sculpts environments, guides attention & evokes atmosphere. In virtual realms unbound by physics, we have unprecedented control over light's qualities & behavior. This flexibility allows light to become an expressive medium for conveying tone & focusing attention. **The choice between bright or dark spaces is a fundamental design decision with significant perceptual & emotional implications.**

In a vast dark void, a single point of illumination can be visible from a great distance, drawing the eye like a beacon. Conversely, a lone silhouette against a bright horizon can be equally arresting, its dark form standing out in high contrast.

These extremes of light & shadow create striking visual drama. That being said, designers must wield this power judiciously.



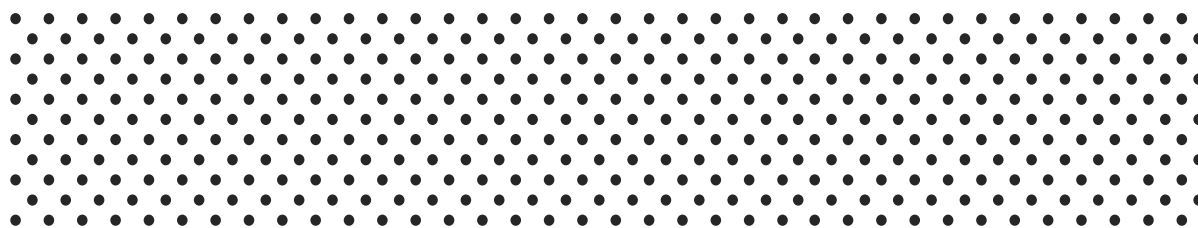


Excessively bright spaces, especially in virtual environments experienced through head-mounted displays, risk causing eye strain & headache with prolonged exposure. Staring into strong light sources without relief can be uncomfortable, distracting from the intended experience. **On the other hand, near-total darkness punctuated by intense pinpoints of light can feel alienating & disorienting when overused.** While momentarily impactful, this high-contrast approach is best reserved for specific dramatic beats rather than sustained ambience.

For most virtual spaces, a balanced approach that combines soft ambient illumination with strategic pockets of light and shadow may prove most effective. Indirect diffused light feels natural & welcoming, allowing details & depth to read clearly without overwhelming the senses. Within this gentle ambience, carefully placed pools of brightness & shadow can then direct attention, define focal points & establish visual rhythm as users navigate the space.

Ultimately, wielding light or its absence with intent & restraint is key. Virtual space grants us otherworldly control over illumination - but like any power, it must be exercised with care & empathy for those experiencing our creations. By balancing light thoughtfully to sculpt space while prioritizing occupants comfort or task, we craft environments that both inspire awe & feel inviting to inhabit or explore. Conversely, the opposite approach towards something with more sinister or spooky intent, would have similar results if the goal was to terrorize, herd or unsettle guests. With a constant reminder that we are shaping realities, we must think about & leverage this carefully.





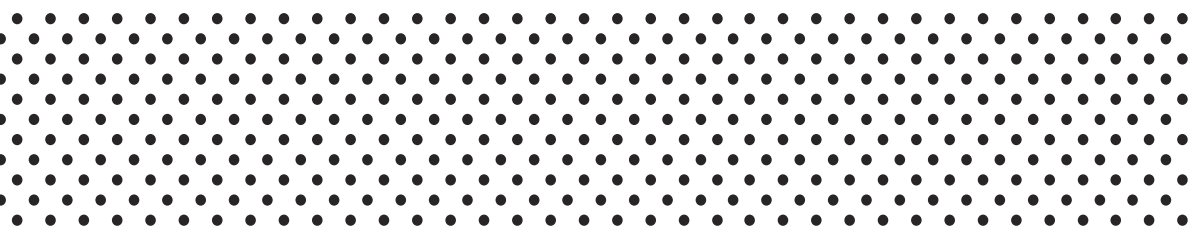
Sound Works as the unseen force

that ties an experience together & is a core element of our discussion around cohesion for good reason. While visuals often claim focus, thoughtful sound design provides the subtle yet vital thread weaving spaces & experiences into cohesive worlds that resonate viscerally. Audio grants environments atmospheric life difficult to achieve through the visual channel alone & can tap into projected moments of the past for those hearing it in context: from audio memes to locational references.

Silence speaks volumes - environments devoid of spatial sound feel eerily inert & hollow, inducing discomfort, dissociation or detachment. Our nerves intuitively seek sonic environmental feedback aligned with activities & settings of the moment. Auditory cues confirm space and self through sound.

Natural ambient textures - gentle wind, ocean waves, birdsong, flowing water - situate us immediately in credible scenes by evoking familiarity. City soundscapes place us amidst dynamic bustling energy. Audio empowers imagination & spatial belief using only suggested references. Directional 3D audio further expands immersion by localizing sounds at naturalized coordinates, reinforcing presence. Our ears align aural reality with visuals through instinctive cross-referencing. **Acoustics ground experiences.** **Strategic, reactive soundscapes add life by responding to visitors in real-time.** Rustling leaves react to footsteps while crowds swell & subside based on occupancy & distance to social centers. **Environments feel alive & persistent with context-aware audio.**





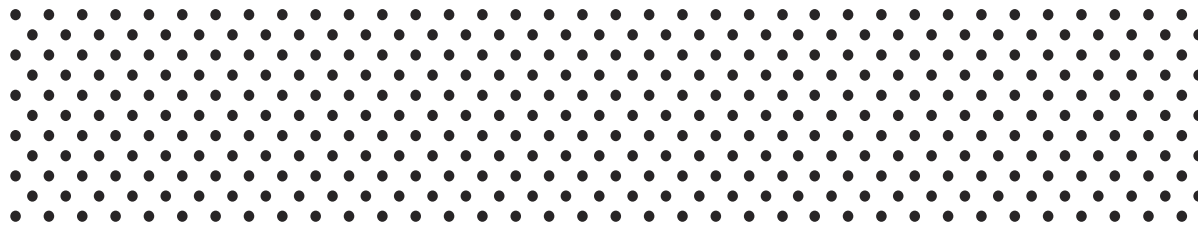
Interactive audio augments without distracting - Impact stems from sound's often *subconscious influence over psychological states*. Spatial design grants direct access to our emotional core through resonance & patterns crafted carefully.

Unlike visuals parsed consciously, audio absorbs intuitively through perpetual peripheral perception. **Adapted soundscapes guide focus, energy & presence without occupying attentional foreground.**

Masterful game & film soundtracks exemplify audio's power to subliminally sculpt experience. Iconic musical motifs can transport us across eras & worlds through timeless emotional resonance. Thoughtful foley sound effects layer credibility through detail - audible ripples when stepping through water, temple doors grinding with weight against the ground as they open. They manifest fictional worlds into immersive belief.

3D spatialized character & user voices grant rapport while grounding their placement, their vivid presence forming bonds in shared space surpassing faces in a video call alone. Spatial UIs can also localize audio cues directionally to guide users & provide navigational assistance. Beacon effects draw attention while staying understated.

We must remember, not all hold the privilege of hearing. Conscientious design considers versatile modalities in parallel to avoid sensory exclusion. Visually conveyed sound through vibration & visualizers boosts accessibility.



By bridging senses, subtle sensations manifest audio's meaning multidimensionally.

Most profoundly, environments project a conceptual sonic identity - an intangible atmosphere embodied by its signature sounds. At this metaphysical level, we discern spaces through their intonations ringing. A bustling public square's waveforms swell with diversity, ideas colliding into insight. A hushed gallery exhales collective pondering. Rhythms reveal. Tones focus intention. We inhabit not just physical but tonal place.

A thought-space's sonic identity needn't mimic realism if crafted intentionally. Fantastical atonal chorales attune us to surreal dimensions. Melodies manifest cosmic overtones.

Spatial sound design sculpts potent atmospheres spanning real to unreal when composed holistically across details. At its height, audio environment becomes dimensional canvas emoting through visitors directly.

Thought-spaces promise experiences evoking conceptual states directly through artful acoustics. Sound transports. Of course, technology alone cannot guarantee impact apart from intent & creative care - blind application risks deception or overstimulation. **As always, purpose guides design. Audio's influence works both ways; environments also attune us inwardly just as our presence shapes them outwardly. Their give & take provides both lessons & opportunity.**

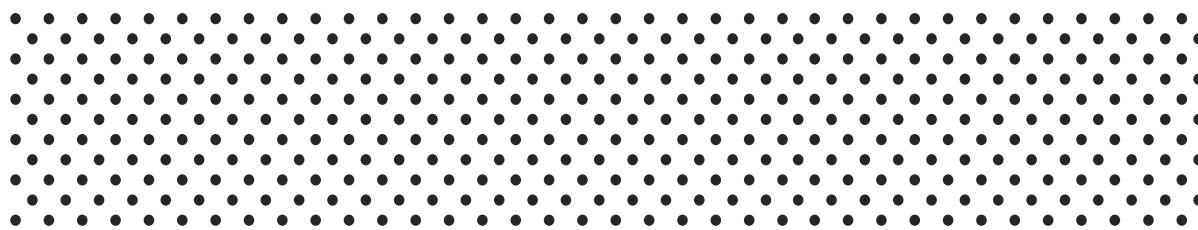


While thoughtful audio design can profoundly elevate virtual experiences, the inverse also holds true - careless or intrusive

sound risks detracting from engagement & presence. Dissonant sound effects lacking context shatter immersion abruptly. Loud repetitive loops can quickly fatigue & irritate listeners when overused mindlessly. Even pleasant music played endlessly with no dynamic variation becomes omnipresent noise impossible to ignore consciously. There can always be a balance: where soundscape & texture might set the tone, an option provided can allow users to listen to suggested contextual playlists or simply play their own music into a space, live or otherwise.

Most detrimentally, painful tones & volumes can cause sensory discomfort truly harmful to users. For those neurodiverse, we must think about this & keep this in mind with our responsibilities as designers & hosts. Freedom should always be encouraged, but warnings for those unaware should be standard. The last thing we want is to destroy someones confidence in entering shared, virtual space. Unlike visuals easily ignored by looking away, unpleasant sound remains invasive when ambient in shared environments.

Thus conscientious balance, spaciousness & volume levels remain imperative for inclusive experiences. Without care, audio risks removing presence rather than nurturing it through ongoing harmony & context. The most artful soundscapes fade into the background, supporting spaces subconsciously through subtle ambience crafted meticulously around human hearing & intuitive response to frequencies of all types.

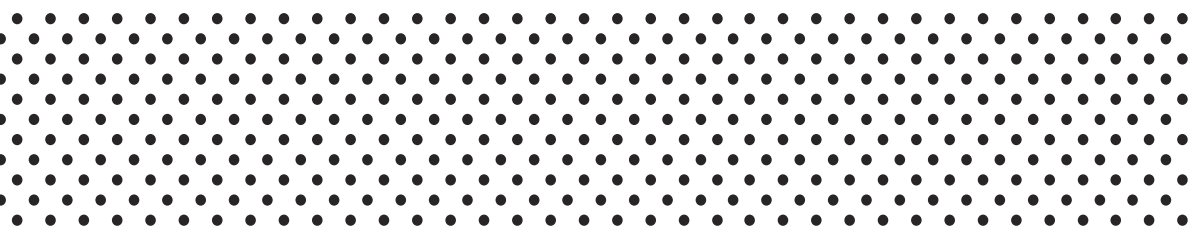


**"A good traveler has
no fixed plans & is not
intent upon arriving.**

**A good artist lets his
intuition lead him
wherever it wants.**

**A good scientist has
freed himself of
concepts & keeps his
mind open to what is."**





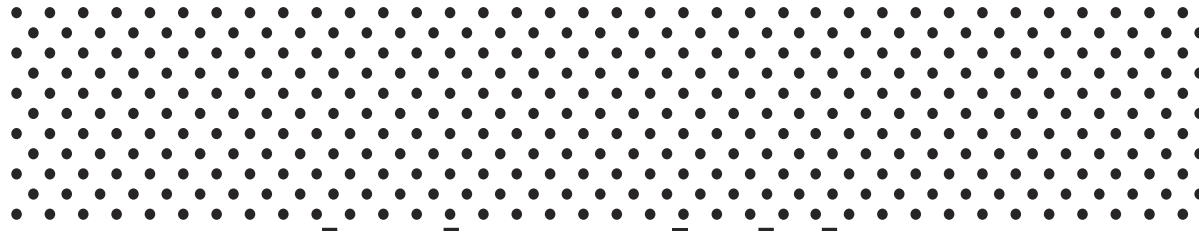
This quote from Verse 27 of Tao Te Ching resonates with me as a builder because it speaks to the open, unattached & intuitive mindset needed to truly harness the potential of thought-spaces across impact & area of interest.

Some key connections I see:

- "A good traveler has no fixed plans" relates to architecting thought-spaces tailored for you rather than rigidly imposing external paradigms. It also reminds us to let spaces evolve organically.
- "A good artist lets his intuition lead him" reinforces designing environments that map to innate cognition & amplify our mental strengths. Following creative flow uncovers inspiration.
- "A good scientist has freed himself of concepts" encourages regularly reinventing thought-spaces to liberate perception from frameworks that limit possibility as technology & opportunities evolve.

This verse advocates the benefits of a beginner's mind - approaching thought-spaces openly without constraint allows inner purpose to guide learning & design.





Foundations laid, we build upward. No framework is finished at fundamentals alone. Let's chisel some finer features to complete this groundwork for spatial design & application:

While we've covered fundamental principles for approaching thought-space design, there are additional ideas worth exploring.

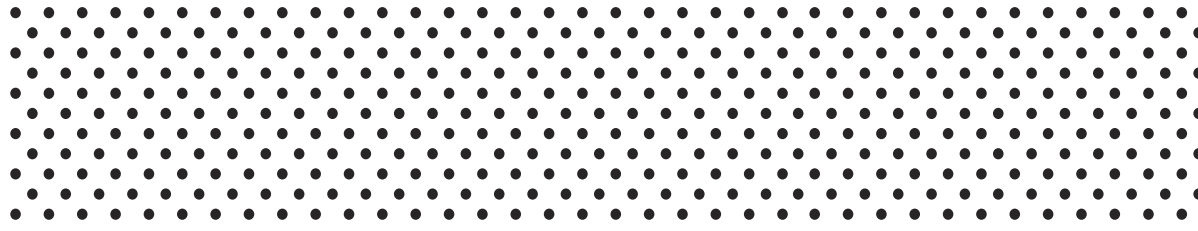
So far, we've focused on the conceptual foundations: establishing the raw materials & basic architectural guidelines for constructing environments that enhance cognition. **In the pages ahead, we'll pull back, address further concepts & discuss how these spaces create real world impact & intrinsic value for their users - shifting culture & industry in the process.**



When designing thought-spaces, consider how spatial layouts can mirror mental models. Our minds think in networks of concepts, so recreating those structures externally provides clarity.

Layer concepts across levels, dimensions, and nested shells to capture higher abstractions and intersections just as our mental models operate at multiple scales simultaneously. Craft an external space that extends the mind fluidly.

Maintain an ongoing ledger of friction points impeding your flow state. Eliminate unnecessary steps between having an intention and recording it. Streamline routines into ritual, minimizing thought-space upkeep. Set ambient conditions promoting focus or reflection as needed. Balance private spaces for deep work with social areas that spark creativity through exchanges. Build scaffolds that nudge positive habits while allowing autonomy.



Cultivating Your Garden of Insights

Regularly synthesize material into higher order constructs like models, frameworks & polished narratives. This cultivation unearths emergent insights across knowledge. Create intuitive pathways for revisiting ideas as understanding grows. **Our grasp of complex topics iterates over time, so design for continuous reappraisal.** Vary perspectives by assessing ideas against different mental models & worldviews, **invite others in for discussion, insight, *challenge* & *evolution* of thought.**

The Ritual of Reinvention

Periodically reshape your thought-spaces radically to shift context & expose new angles. Stagnation breeds fixation while changing environments breed creativity. Contrast concepts placed closely to signal relationships with distant, unexpected proximity revealing unlikely connections through idea crosstalk. Let your patterns shape the space, let the space shape your patterns. Move with flow while nudging your own growth.

Setting the Stage for Community

Enable collaborative growth through public thought-spaces & collective knowledge sharing. With constructive norms, these can become thriving hubs where members contribute & feel ownership. Share what amplifies all, not just yourself. Make spaces for diverging perspectives, not just commonality. Create with others at the edge of what you know & invite others in to teach you more.



Categorizing Space:

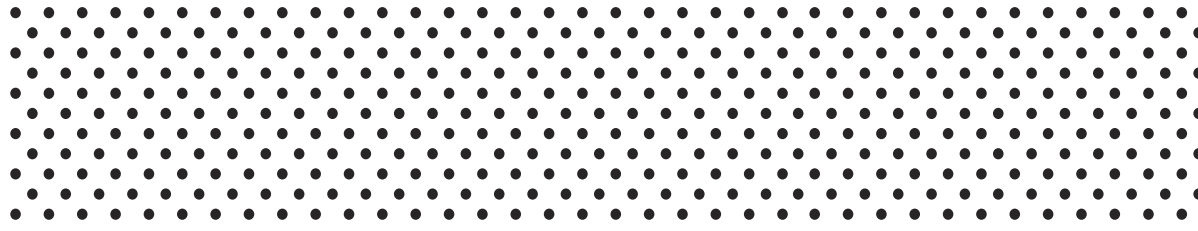
- Hubs
- Halls
- Havens

Having discussed the philosophical requirements of designing an effective space, break down the various types of spaces that can be built & how to leverage them in context to **your needs**. I don't categorize H³ as a rule, rather a simple mode of labeling that has always helped our approach at the onset of a design:

Hubs: Gathering

Halls: Intermediary & Temporary

Havens: Landmarks & specialized locations



Hubs: Social Gathering Spaces

The heart of any public thought-spaces & their associated realms: strategic hubs create natural social gravity for users to congregate, meet & cross-pollinate ideas. These act as plazas, atriums, & forums for serendipitous collisions & spontaneous gatherings essential to cultivating community.

Design hubs as flexible containers for collaboration at varying scales, from pairs to large crowds with an emphasis on communal utility over aesthetics alone. Utilize circular or organic forms in balance with hard, leading lines that welcome diverse groups while minimizing perceived hierarchy: circular bench arrangements & standing kiosks invite shoulder-to-shoulder interactions. Proximity powers connections. Enable easy reconfigurations as needs arise. **Leave room to grow:** Locate hubs at crossroads between areas to intercept & engage visitor flows. **Hubs integrate - the watercoolers of thought-spaces for cultivating shared culture. Well-designed hubs emanate energy that draws people steadily in.** Programming hubs with community events, learning series, lectures, ceremonies and celebrations reinforces their role as the cultural centers of thought-space ecosystems.

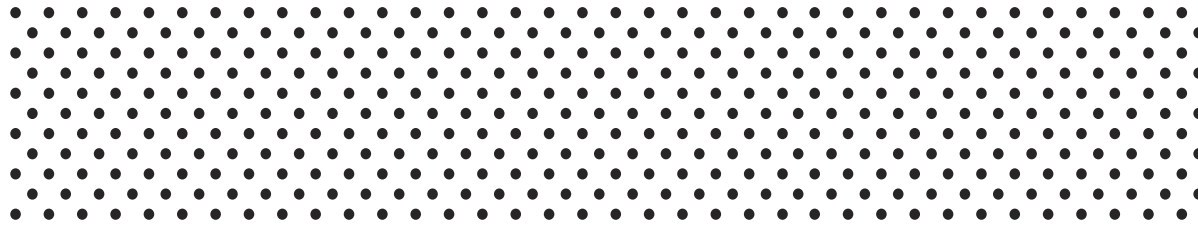


**Adept hub design
radiates energy that
organically draws
people steadily in
once inhabited.**

**Made well, they
encourage invitation
& referral of outsiders in.**

**Temporary solitude
builds anticipation
of reunion.**





Again:

Temporary solitude builds anticipation of reunion.

Think about this from the context of entering a location designed so well that your first natural instinct is to get to make yourself at home, get to work, do some online reading or call someone else to join you in shared experience or collaboration... **This is the fundamental thought that gives way to a successful hub & community landmark.**

Every moment, every angle, every facet of the space should incentivize peer group invitation & collaboration. Even within our private thought-spaces, we are giving ourselves room to breathe while preparing for interaction with & articulation to others in the near future. We are leveraging our amalgamated thought process & learnings to better reconnect with the outside world on the other side. Design should mirror this on both ends of the line.



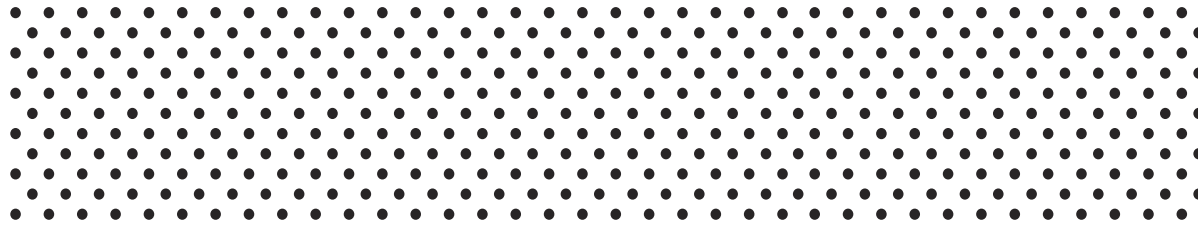
Hallways: Intermediary & Temporary Spaces

Halls are designed with a focus on wayfinding, navigation & visually revealing connections between worlds, rather than being environments to inhabit long-term.

Priority should be placed on creating intuitive architectures & gallery-style arrangements that provide visitors a clear overview of available portals, doors & entryways to linked external worlds. Minimalist, transparent aesthetic choices make the entrances visible & accessible. Directional lighting, spatial audio, & sequential reveal designs lead visitors smoothly from origin to destination.

Comfort considerations for halls focus on enabling clear sightlines & ergonomic travel between worlds. Seating, if included, is secondary to maintaining open navigable space. Their core role is illuminating the expanding cosmos of collectively created thought-spaces through strategic maps, frames, junctions & data trails. Users understand at a glance the journey ahead then depart through portals into linked worlds & pages with confidence.

Optimize wayfinding, compartmentalization & sequencing to make navigation intuitive. **Halls frame journeys & bridge gaps.**



Well designed halls embed individual thought-spaces into visual structures of multidimensional knowledge networks, resources & locations in a larger universe of independent spaces & actors.

Their spatial syntax eases navigation across multiple realms of thought, interest or industry.

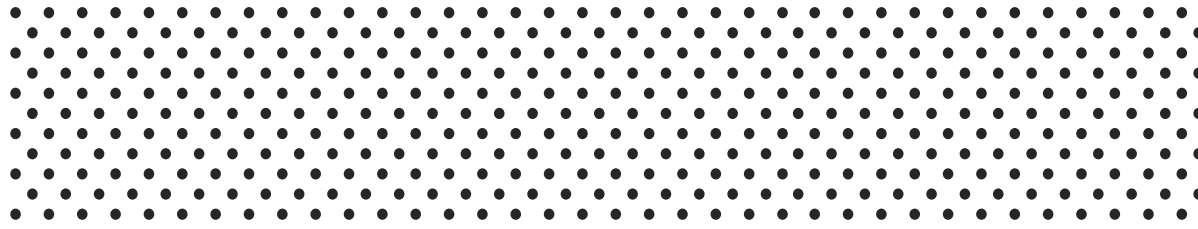


Havens: Landmarks & specialized locations, niche groups & forums

Havens are crafted around specific utilities, communities, and focuses to empower targeted discussion & progress. A haven may provide facilities for focused skill-building, occasions for confidential strategy, or portals to pockets of knowledge on esoteric topics. Their specialty welcomes niche groups.

For example, consider a popular Reddit forum on astrophotography - as a haven it could manifest as a planetarium with accurate celestial interactive light installations. Users could share images under a starry dome, summoning mentorship, critique & guidance from veteran astronomers & photographers. Moderators could curate a community gallery of work & host streaming events for meteor showers, solar ejections & planetary events.

While hubs facilitate broad engagement, havens enable deep work among those invested. make interactions frictionless with contextual tools, assets & relevant information. Optimize havens for their specialties & invite participation from experts.



By crafting spaces that make accessing knowledge intuitive, participatory & explained through multiple modalities, havens transform static information into embodied understanding:

For example, consider a popular Reddit forum on astrophotography - as a haven it could manifest as a planetarium with accurate celestial interactive light installations. Users could share images under a starry dome, summoning mentorship, critique & guidance from veteran astronomers & photographers. Moderators could curate a community gallery of work & host streaming events for meteor showers, coronal mass ejections & planetary events.

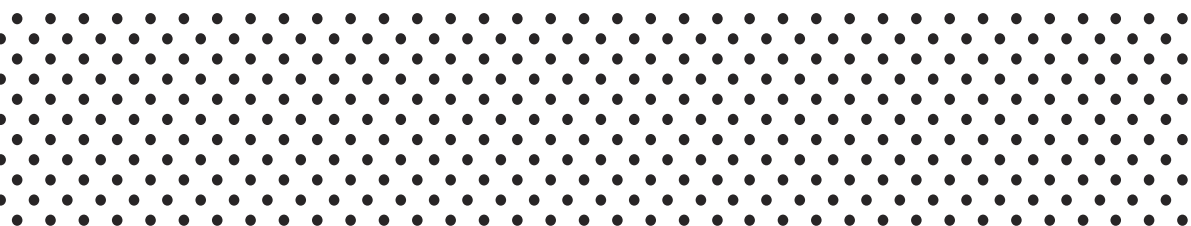
Medical students convene in havens with interactive anatomy exhibits, collaborative diagnostics simulations & real-time mentoring from remote experts across top hospitals worldwide.

Law students participate in moot court havens, arguing high profile cases in simulated courtrooms before panels of digital magistrates & public seats filled by sister university students. Theoretical learning becomes hands-on through spatial reality.

Foreign language learning havens provide daily immersion in accurate cultural reproductions from native guides. Conversation with mother-tongue speakers accelerates fluency.

Of course, education requires more than compelling lectures in lavish lecture halls. Truly effective havens nurture discourse & analytical thinking through Socratic spaces optimizing back-and-forth dialogue at scale.



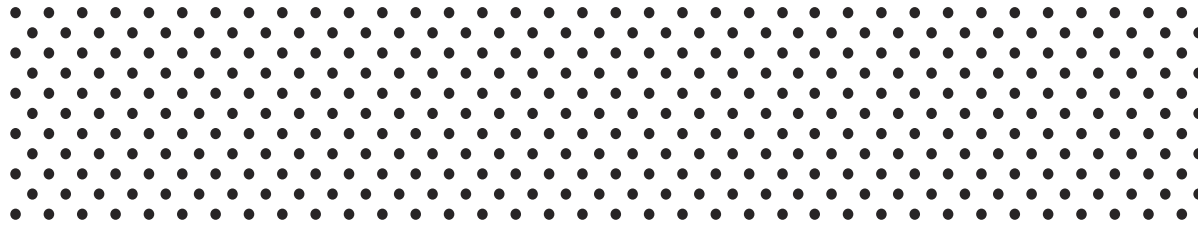


By balancing targeted design for a field with accessibility, havens can foster diversity of thought & elevate collective intelligence on complex issues. Inclusive spaces generate richer questions.

Havens need not constrain participants to siloed disciplines. Interdisciplinary cooperation havens unite experts across academia, private sector, government & culture to accelerate innovation. At their full potential, havens could allow global minds to collectively build stronger, decentralized libraries & communities of human knowledge. Their deeper purpose remains tied to the greater good. **Left unchecked, they risk becoming high-fidelity echo chambers reinforcing faulty beliefs or groupthink amongst insular communities.**

The same intimacy that builds bonds between subgroups can exclude & otherize those cast outward. **Havens must uphold an ethic of radical hospitality to safeguard inclusivity.** Similarly, targeted functionality enabling efficient progress risks devolving into gamification mechanisms that could easily be likened thoughtlessly checking boxes & double tapping screens, not expanding minds. **Thus havens carry heightened obligation for stewardship and *combating misinformation*.** Guide participants gently but firmly from assumptions to active inquiry. Catalyze understanding between opposing subgroups through bridging havens & the gap between landscapes of thought.

If designed conscientiously, specialized havens could unlock unprecedented returns on human knowledge, empathy & cooperation globally.

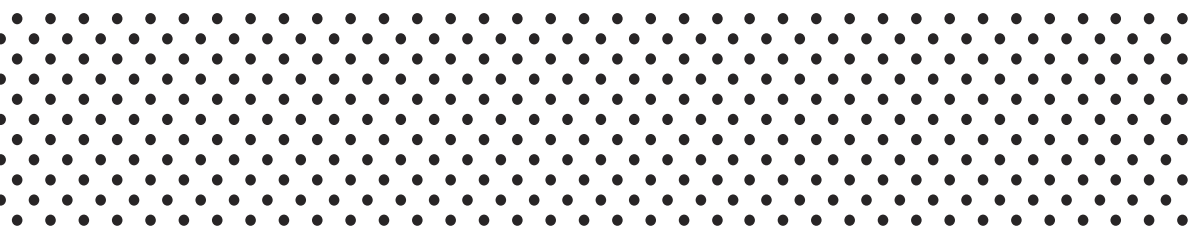


While gamification often carries expectations of superficial external rewards & leaderboards, thoughtfully designed interactivity promises more transformational potentials for subconscious learning in virtual spaces. **Play unlocks education intrinsically through curiosity over compulsion.** Rather than force-feeding information out of context, well-crafted interactive challenges & play-spaces allow visitors to grasp concepts experientially at their own pacing. Insights arise through guided discovery.

For example, timed competitions make repetitive skill-building engaging through urgency and friendly competition. Quick resets allow rapidly iterating techniques through trial and error. Scaled obstacle courses could teach essential spatial web skills like manipulating objects at a distance & finer movement coordination, be it through hand tracking & headsets or traditional access points like computers & mobile devices. Intrinsic mastery sustains where extrinsic rewards wear off. Failure carries no judgment or practical cost. Users learn thought-space interfaces by navigating gameplay, not abstract tutorials or slow, verbose explanations. This is guided, experiential learning. More importantly, it can be fun.

Rather than dulling stimulation, play immerses through participatory learning, turning assimilation into adventure. Virtual embodiment empowers growth through visceral & competitive challenges impossible physically. Well designed games artfully guide players along Vygotsky's "zone of proximal development" - remaining just beyond current skill levels to spur advancement, not overwhelm. Goals always feel attainable.





Moderating play to avoid misuse will remain essential as virtual interaction increases. But responsibly integrated, friendly challenges can unlock education's joys.

Gamification works by artfully balancing skill-building constraints that focus action with freedom granting a sense of agency. Flow states emerge working within purposeful structures. Clear goals, dynamic difficulty adjustment & instantaneous feedback loops sustain immersion in the growth zone - never bored nor anxious. Emergent gameplay maintains peak engagement. Interface designs benefiting all avoid rapid flickering chaos in favor of readable, rhythmic cause & effect animations attuned to cognition. Predictive shifts ease overwhelm & offer a subconscious pulse of pace.

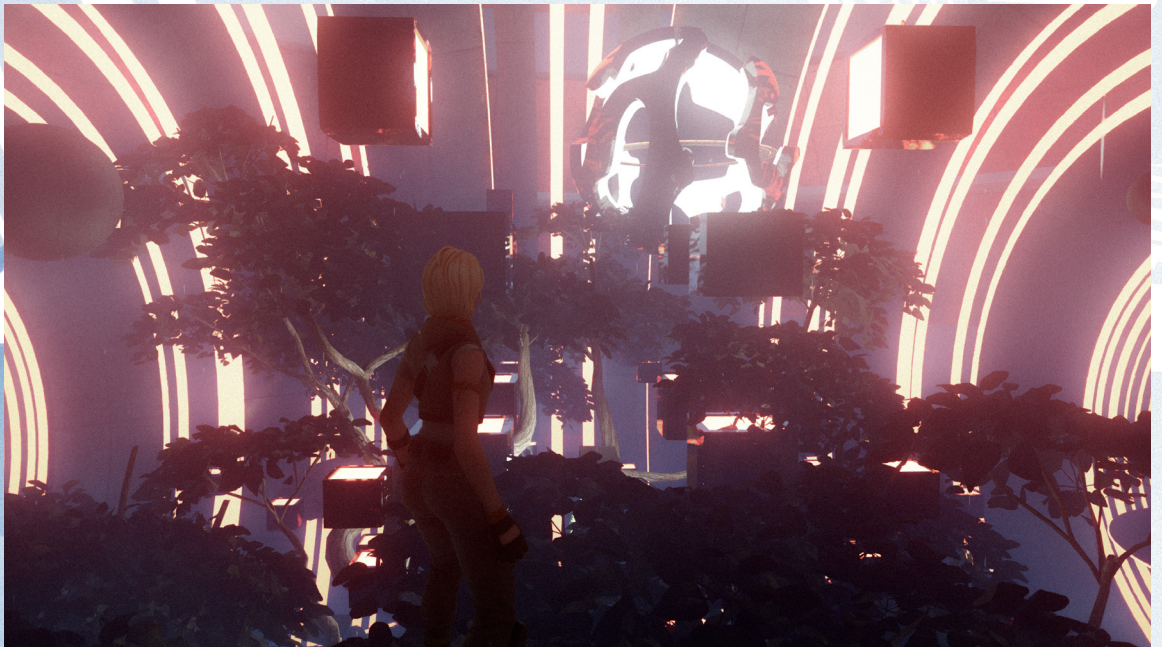
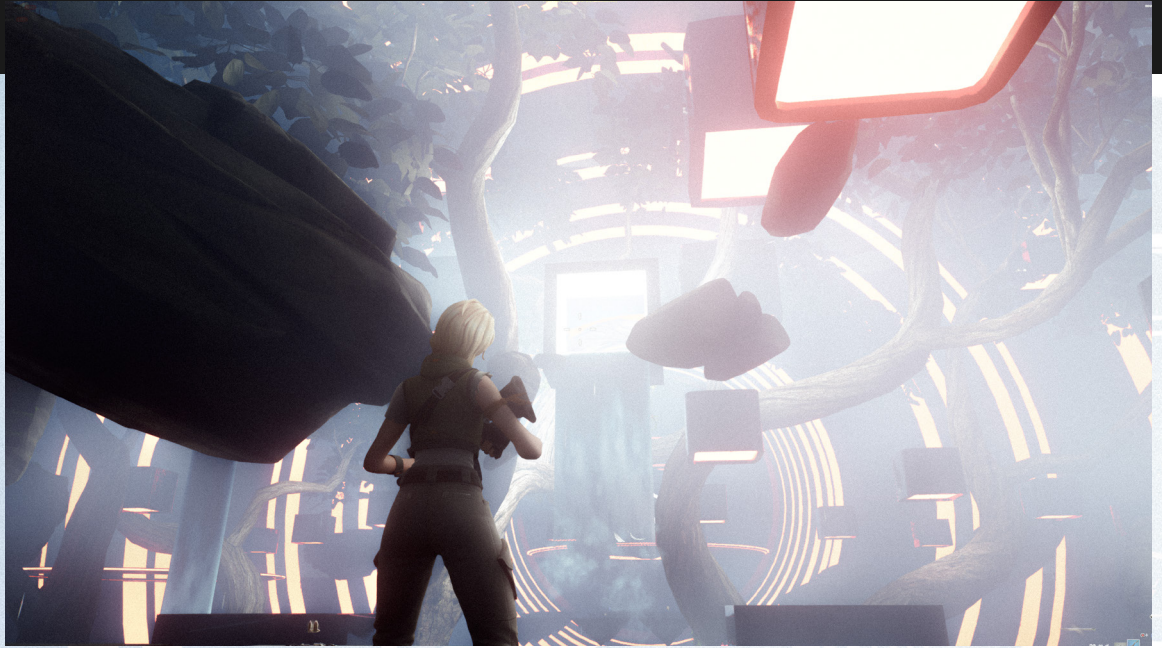
Consistent interactive rules & intuitive physics breed comprehension through pattern recognition. Explorable possibilities quickly become second nature rather than random confusion. Well-tuned game mechanics recede from attentional foreground into instinctive environmental leverage as proficiency increases. We absorb their teachings through use.

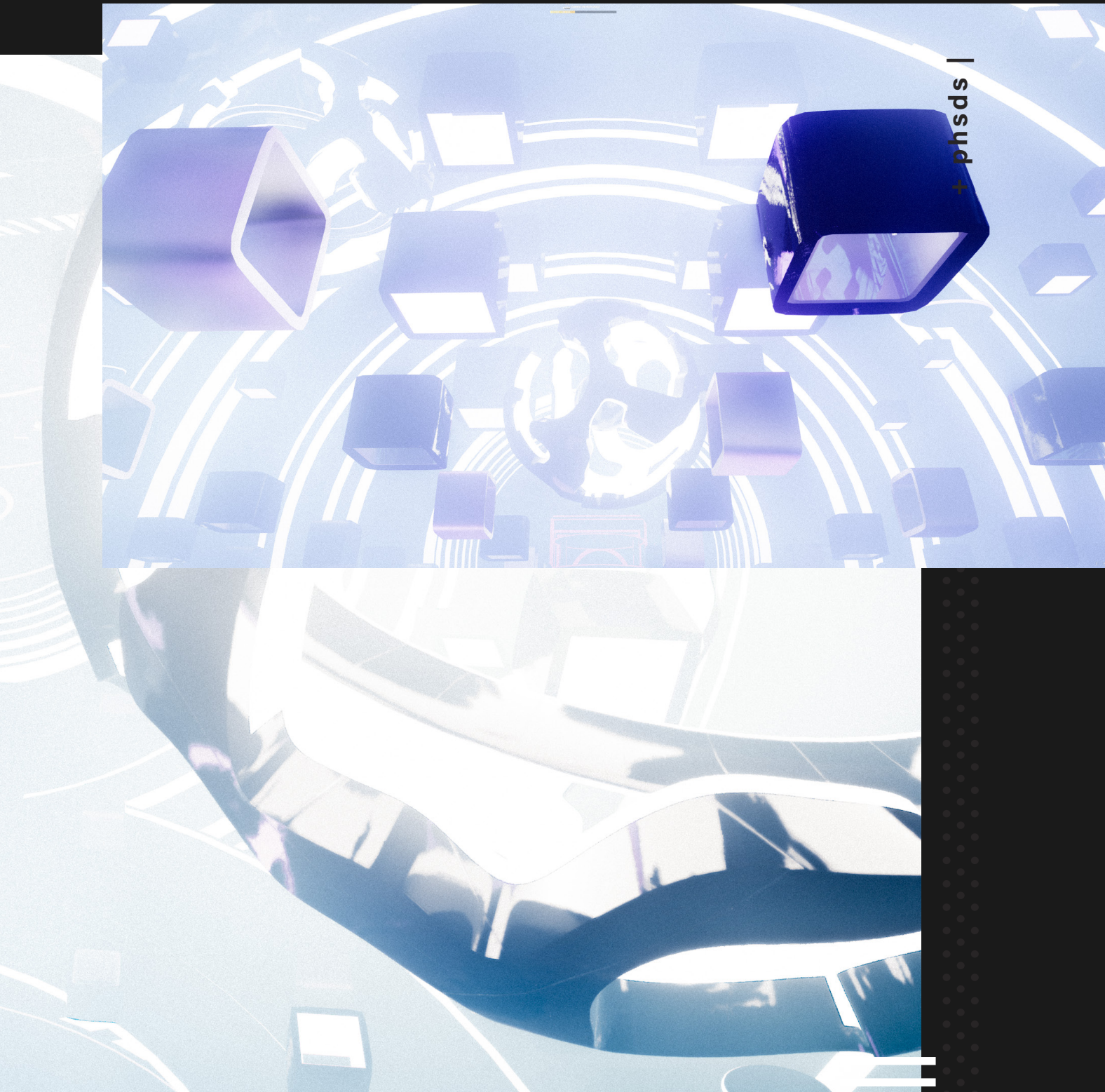
Moderation remains essential to avoid dependence on continual external stimulus. But balanced integration sustains curiosity & conveys concepts profoundly through their enactment. At their highest potential, games invoke higher calling - courage over comfort, creativity over conformity. They model challenges translatable to real world skill & character development beyond mere distraction.

When purpose reigns over ply, gamified environments guide growth. Their lessons recode selves coded for uplift.

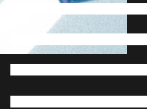
"GRIDSHOT" AKA "ATTACK BARRIER IV"
ZERO GRAVITY COMBAT SPACE / 2024

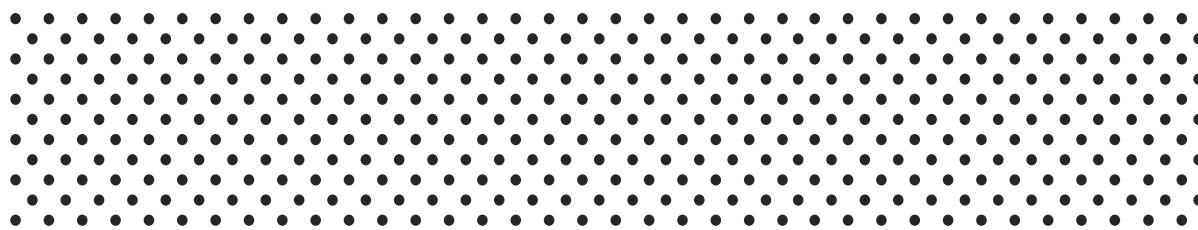
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When we began building Gridshot, a cross-platform, competitive zero gravity arena - we were building something **for the sake of fun.** Where we're known for premium builds & structures that emanate a timeless class, I felt it was extremely important to remind ourselves & users not to take it all so seriously. So much can be done with virtual space as a medium, it was important to showcase this through a physically impossible playspace, creating a sandbox to get comfortable with controls & begin moving confidently before focusing on more in-depth spaces & locational resources.

Virtual spaces like Gridshot's spherical arena, initially designed for intense competitive gameplay, contain immense potential for reuse & reimagination to serve radically different needs simultaneously. The same underlying structure & layout repurposed can transform users' experiences entirely. Our choice to make a parallel reconstruction of Gridshot's bright, kinetic arena into a contemplative multilevel library & co-working zone articulately illustrated the power of adaptable space.

Competitive intensity becomes communal tranquility, but the foundational architecture remains stable. This ability to reskin & redesign core environments for diverse activities sustains relevance & engagement as community needs evolve. The same thought-space can educate, entertain, enlighten or any combination through reimagination. The possibilities span far beyond just swapping game & study space. Performance venues, art galleries, simulated labs - nearly any experience realizable physically or beyond can manifest within multipurpose virtual realms.



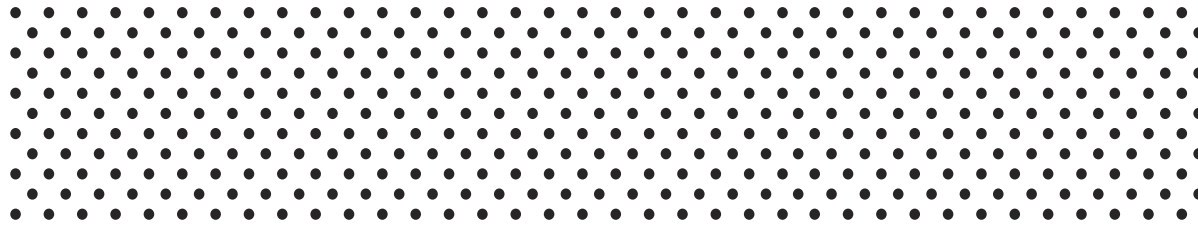
**With thoughtfulness, spaces
crafted for escape can enable
self-realization.**

**Conscious architecture
guides users from consuming
entertainment & related
media passively towards
gaining skills, forging bonds,
network growth & self
actualization.**

**Carefree enjoyment retains
merit, but potential lies in
designing with versatility.**

**Spaces accommodating both
light & profound engagement
as users desire will become
landmarks of evolving social
behaviors.**

**The same room can both
laugh & think deeply.**



Utilitarian Design: Crafting Spaces for Usability

While architectural expression stirs the soul, a space's utility shapes how people inhabit & use it daily. **Utilitarian design considers ergonomic details that enable thought-spaces to excel as high-functioning environments for focused work, social exchange & discovery.**

Beyond aesthetic vision, how will the space empower users? Utilitarian design removes friction and facilitates behaviors aligned to the space's core aims.

Linking Resources

A key advantage of virtual thought-spaces lies in freely connecting resources across digital boundaries. While curating original assets, also leverage the power to hyperlink related information from external sites & sources. **Embed access pages to useful tools & software, reference materials from knowledge bases, link cited works, connect complementary spaces from collaborators.** Allow users to fluidly traverse interconnected resources & information landscapes through portal jumps. This allows for cross platform experiences not tied into any single domain alongside effortless transition between spaces, dimensions & media in context to who it's for.



Shared Repositories

Enable frictionless sharing by providing open community drives and repositories for visitors to exchange helpful assets. These may include 3D objects, audio samples, textures, documentation & guides.

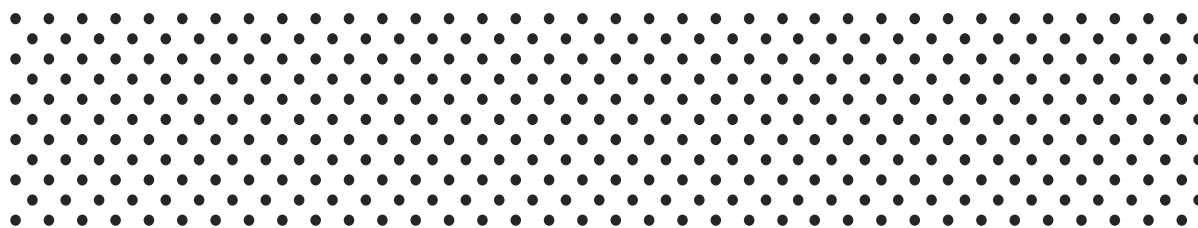
Clear permissions & organization keep these useful without becoming chaotic. Ratings systems highlight community favorites organically. Visitors give by sharing their own creations & take by building upon each others' contributions. **A spirit of open exchange & conscious attribution propagates collective growth.**

Public Knowledge Bases

Consider opening sections of your private thought-space or second brain publicly as reference bases. By providing opt-in visibility to your knowledge, you empower collective growth. Others build on context you supply.

Linking second brain pages as contextual wikis gives helpful background on the space's focal topics. Visitors browse interactive notes, glossaries & FAQs to onboard smoothly. **There is a conversation to be had about empowerment through integration of AI here, but we'll get there in further chapters.**

Of course, ethical considerations around privacy & consent govern what's shared. But mutual exchange of knowledge resources benefits all participants.



The Overlooked Importance of Mapping

In designing navigable thought-spaces,
a map, infoboard & *hours of operation* should be considered a standard utilitarian component. While architectural wayfinding does heavy lifting orienting users spatially, maps provide crucial visual frameworks that immediately offer clear understanding of resources, tools & amenities available. A well-designed map empowers visitors by giving them an at-a-glance mental model of the environment. Icons highlight key buildings, color codes define zones, labels reveal portal destinations. Visitors grasp available spaces & access points intuitively.

Without a map, environments risk feeling disorienting mazes regardless of how thoughtfully constructed. Maps transpose 3D terrain into easily parsed 2D overviews so users can quickly self-locate. They understand where they are situated in the greater whole. Of course, maps need not reveal all secrets or guide users directly to every hidden reward. Self-guided discovery remains essential to inspiring deep engagement over time. That being said, a baseline map provides confidence & incentive to explore.

With scale, spatial cartography transforms simple connections into wondrous atlases visualizing entire universes of interconnected thought. Impactful & more effective still: even modest maps orient users in the micro. They are reliable.

No environment should neglect this foundational tool.



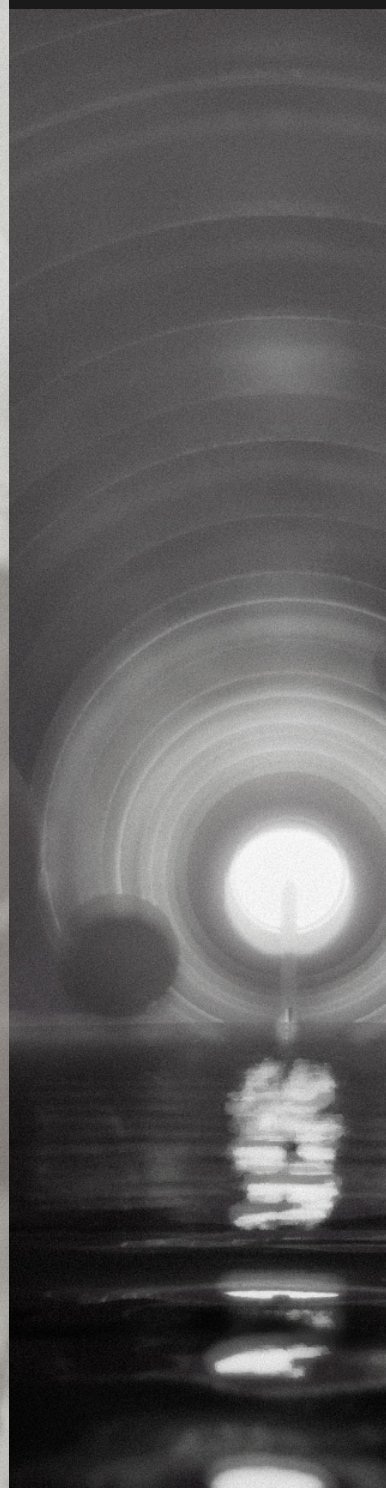
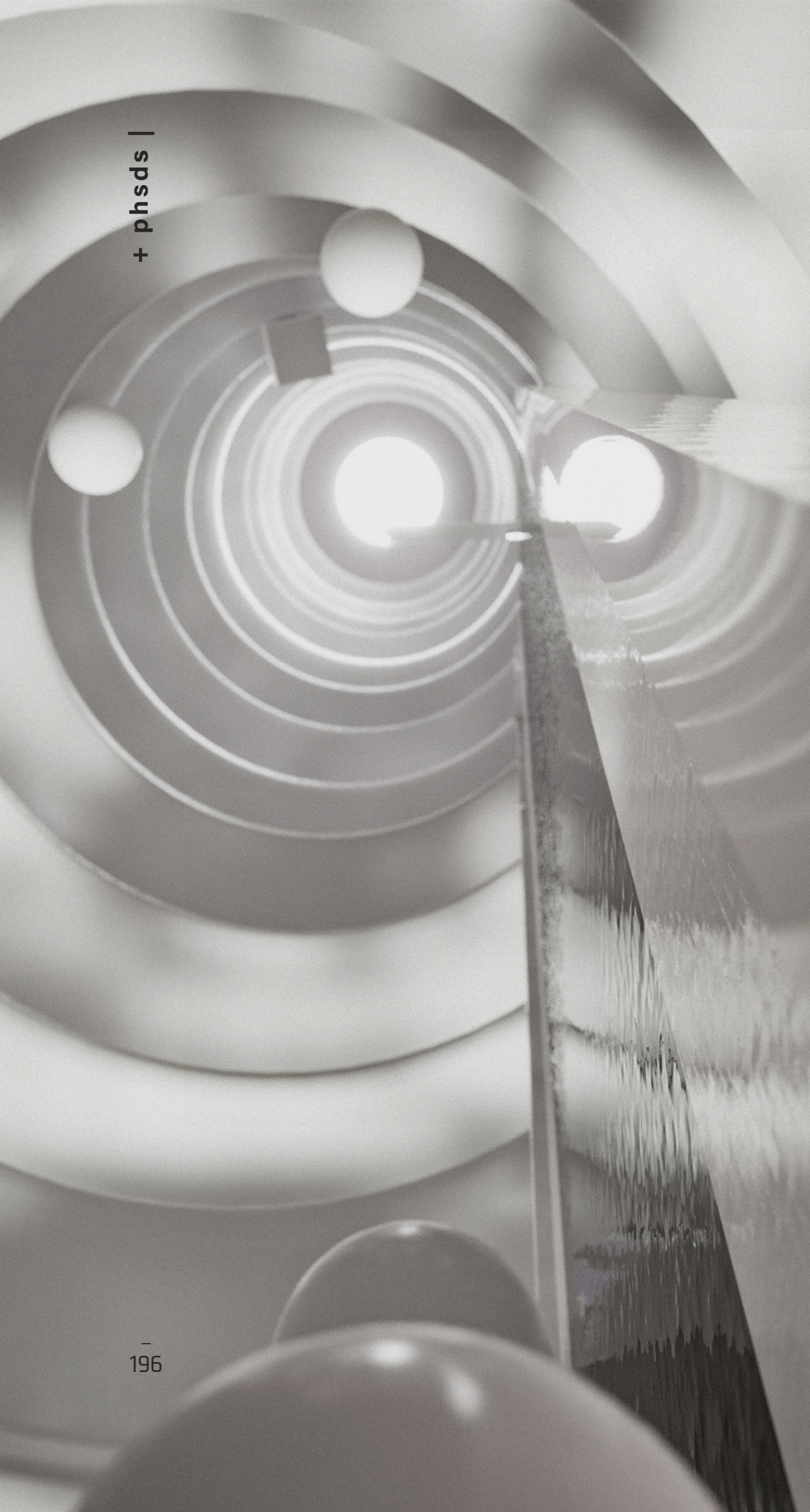
While clear architectural wayfinding sets an intuitive foundation, leverage interactive exhibits & visual guides to orient users experientially in the space.

Storytelling provides context & worldbuilding.

Interactive maps visualize thought-space geography & link portals visually. Visitors grasp the interconnected terrain intuitively through exploration.

Think *VISCERAL.*

Darkness, light, motion & sound
subliminally guide users like moths to
a flame. Understanding their use can
guide users in ways transcendental of
language or text.

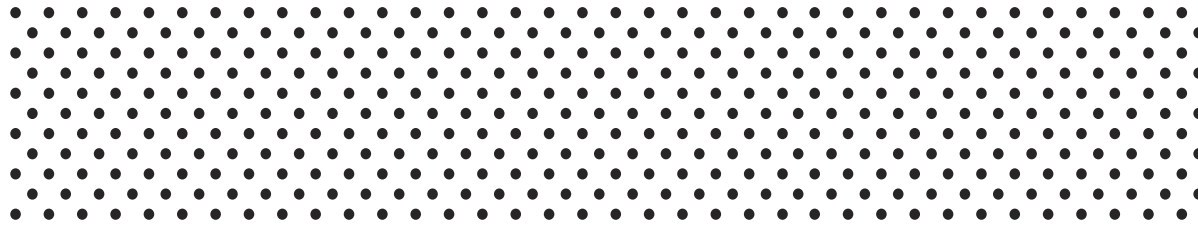


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Hybrid Zones

Think about transitional zones facilitating flow between areas with distinct moods & functions. Blended environments allow shifting mindsets gradually. A lecture hall connects to a lounge for post-talk reflection. The stage floor's resonant light & sound fade into a relaxed lounge area to speak easily while performances boom in the background. **Carefully calibrated mood shifts avoid jarring discontinuity. Hybrid zones act as airlocks between contexts, enabling purposeful transitions.**

They bridge experiences for heightened cohesion.

Seating & Surfaces

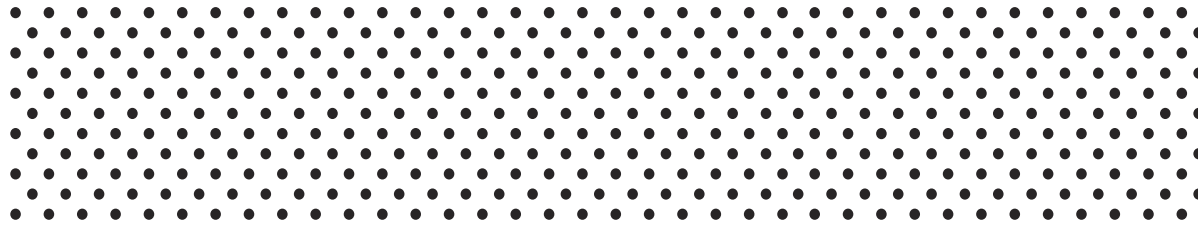
Don't overlook the importance of providing intuitive surfaces & seating arrangements attuned to desired activities & social configurations. High tables & elevated seating areas nurture shoulder-to-shoulder collaboration. Lounges & dropped floors encourage relaxed networking & media sharing. Dynamic configurations can fit the need of the zone. **In meeting & work spaces I've found center floors with elevated surrounding seating facing a main viewing wall provides maximal fluidity for presentation, speaking & media exchange.** Modular furniture elements enable visitors to reshape environments on the fly & empower the moment. **While virtual worlds minimize practical constraints, adhering to ergonomic principles grounds experiences in physical intuition. Leverage flexibility while promoting comfort.**



Optimizing for user empowerment through utilitarian design allow thought-spaces to excel equally as tools for progress & havens worth inhabiting.

By easing friction & mapping environments to natural human behaviors & tasks, we construct external spaces that feel recognizable as extensions of cognition at an intuitive level.





Design Through Feedback

Observing visitors' engagement & soliciting perspectives provide invaluable insights to refine iteratively. Balance openness with adherence to purpose.

Unobtrusively observe how visitors navigate & utilize spaces. Do they gravitate to certain areas while avoiding others? What eludes understanding or causes frustration? Analyze timelapse or heatmap data to pinpoint friction & success points.

Combine quantitative patterns with in-context qualitative observations. Does behavior align with intended functions or reveal misalignment? Let genuine lived experience guide design tweaks, not assumptions.

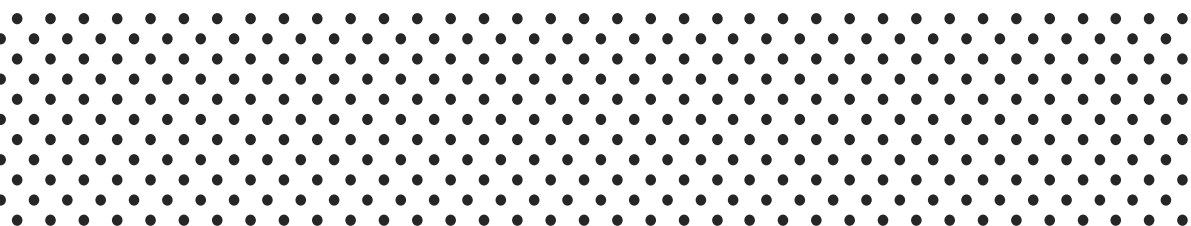
Soliciting Feedback

Actively seek constructive feedback from a diverse cross-section of users through real-time interaction & community discussions. Frame feedback questions to illuminate purposeful improvements.

Ask visitors what inspires wonder & what is lacking. Inquire how the space might better empower their goals.

Recognize feedback as a gift. Listen with openness & respond with appreciation: *think about the priceless value of negative feedback taken gracefully.* Offer multiple feedback channels to encourage comfort.





Avoiding Design By Committee

While feedback provides key insights, avoid diluting vision through design by committee. Maintain inner clarity on the space's fundamental ethos & purpose, not all suggestions will align constructively. Assess feedback critically against intended outcomes & guard against feature bloat or brand & tone dilution. Relate all changes consciously to core goals.

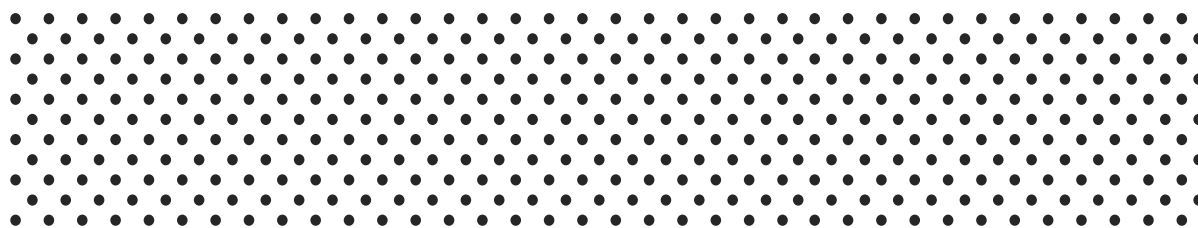
Evolve confidently in directions indicated by feedback without swaying indiscriminately. Intent grounds iteration.

Expanding Thought-Spaces to Meet Emerging User Needs

Leverage modular architectures & templatize interchangeable layouts to reshape thought-spaces in response to users' emerging needs & roles. Make addition of new modules an inclusive, collaborative design process. Co-create with users to meet needs collectively. Align expandability with original purpose. Continually evolve with updated creation tools & integration options. Provide assets & environments for users to assemble novel presentation configurations that keep the space alive through interaction, feedback & contribution. If you're hosting a public space: approach your role as curator of a flexible ecosystem, not sole creator. Propagate an ethos welcoming respectful reinvention; becoming stagnant risks irrelevance.

By empowering participation, thought-spaces begin to pulse.





Integration With Daily Life

Thought-spaces grant freedom to craft immersive virtual environments with experiential learning & creation at their core, but their knowledge & assets contained within retain value even when accessed outside these spaces across

realities: By understanding how users interact with multimedia content across contexts, we can extend thought-spaces' benefits fluidly into daily life through **flexible content delivery.**

Their artifacts persist as empowering tools integrated into physical routines when designed for mobility & convenience.

Consider a reader who frequents a major newspaper's thought-space online to explore data visualizations, new releases & recorded podcasts. They find the immersive analytics around economy, elections & global market shifts uniquely insightful. Rather than having to enter the virtual space daily, they can smoothly bookmark charts, articles & podcasts into their personal space & catalog for accessing on-the-go from their cross-platform members only catalog. **Optimizing exports provides value beyond full immersion:** Now during their commute, they can replay a downloaded episode & read articles from the the space offline. Their chosen insights travel with them. Later at home, they **print out** a particularly insightful research paper to reference over the weekend before writing a publication of their own.

The article began virtual, is noted into their personal system as a prioritized knowledge asset & then transfers analog for personal preference.

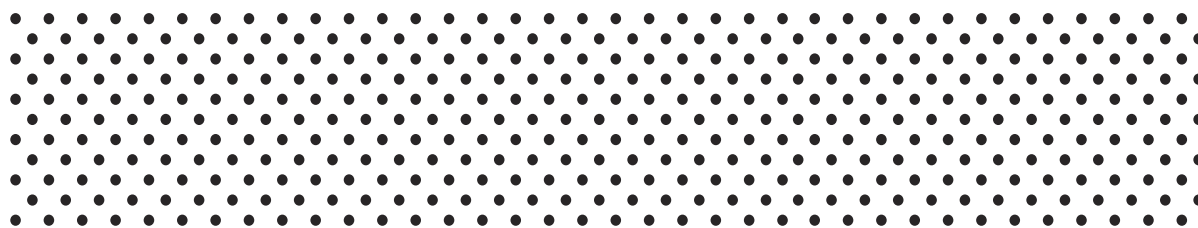


By outputting media content across digital formats & physical mediums consumable in various modalities, thought-spaces integrate into everyday life beyond purely virtual or real-time access.

Modular content & knowledge ecosystems bridge the offerings of a thought-space into diverse scenarios & contexts that enhance daily life & tasks.

Their persistent influence sustains long after leaving – knowledge travels with learners empowering productivity & perspective throughout everyday life.

Saved via a phone or printed & collected books collected on a shelf: Thoughtful publishing & multiformat output of media quietly bridges the gap between realities & mind-types from the onset, allowing users to leverage thought-spaces on their own terms, in their own contexts.



While unlocking immersive digital worlds tailored to specialized interests & communities, their rawest potential shines by weaving their offerings into the fabric of

personal,

daily routines.

When crafted for convenient accessibility across life's diverse contexts, thought-spaces transcend confined apps & sites into persistent knowledge & creative companions.

Curated selections of media, documents, models & notes downloaded from thought-spaces become searchable reference libraries added to our personal archives & systems summonable anytime. Whether preparing a professional presentation or personal project, these modular exports provide immense value beyond momentarily visiting the space itself: **Their knowledge & impact travel with you.**

Just as traditional libraries loan books, forward-thinking thought-spaces loan fragments of their worlds, catalogs & perspectives: catalyzing activities, learning & creation throughout everyday moments.

Displaying art, visuals & assets from vibrant thought-spaces transforms sterile physical environments into visually engaging spaces that inspire, instigate or relax: **Projecting downloaded concerts, creative works & natural soundscapes into your home or workspace offer their neurobiological & subliminal impact at a passive, ambient level.** (24/7 Radio & nature sound channels have a lot to recognize here, as does any host curating spaces or intending to **deploy the power of solitude** in their locations between events.)



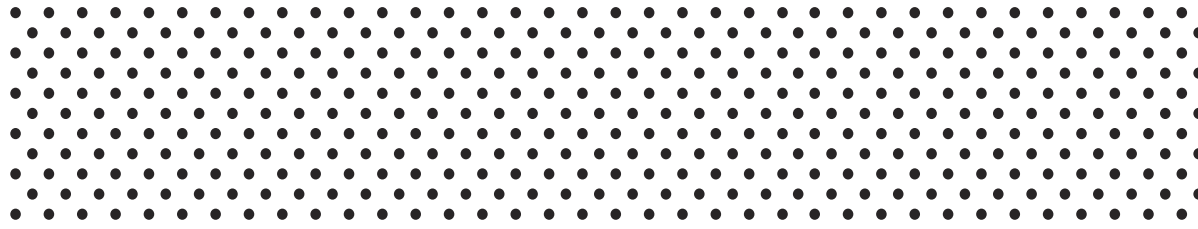
Streaming live & recorded tutorials, classes & lectures from thought-spaces allows transforming any space into an impromptu classroom.

From quick software tips viewed on phones to in-depth university courses projected on living room walls, thought-spaces place enriching education in the hands of anyone with access to the net or an offline interaction.

These become more than a simple online classes- these are premium level interactions with top tier leaders of industry & thought available to all in a way that is equitable & cross platform.

From classrooms to art circles, this is a daily level of digital interconnection & collaboration humanity has never truly had access to... & it will become a casual, daily part of globalized life.

Curating convenient flexibility requires deep understanding of users' consumption patterns across contexts. Done thoughtfully, versatile integrations deliver persistent value.



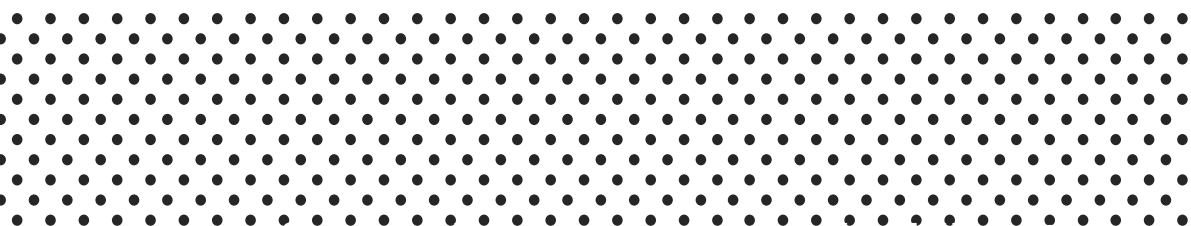
Renowned management & business thinker Peter Drucker pioneered the concept of the "knowledge economy" in the late 1950s, recognizing that economic shifts were increasingly valuing information, skills & intangibles over physical goods alone.

Tangible offerings were no longer the sole determinants of prosperity...

Information was the currency of the future.

Thought-spaces manifest key tenets of Drucker's vision while unlocking new potentials for decentralized knowledge creation & sharing. Their strategic role as knowledge assets warrants reflection: decades later, it is clear Drucker's prediction proved prescient. In today's digital age, success often depends on having timely access to meaningful information & the skills to apply it creatively. Knowledge fuels innovation & progress across every domain. **Yet, rather than simply commodifying knowledge into static, gated resources as Drucker expected, the spatial web provides opportunity to evolve knowledge work to its next paradigm.** User-created thought-spaces allow knowledge to live & breathe online in immersive, ever-evolving environments that defy physical constraints & financial limitations. They fulfill the promise of Drucker's knowledge economy, while shifting control over information abundance out of institutional gates directly into the hands of individuals & independent, decentralized communities. **Of course, Drucker rightly stressed that formal protections would remain essential for commercial knowledge work, even in a digital future.**

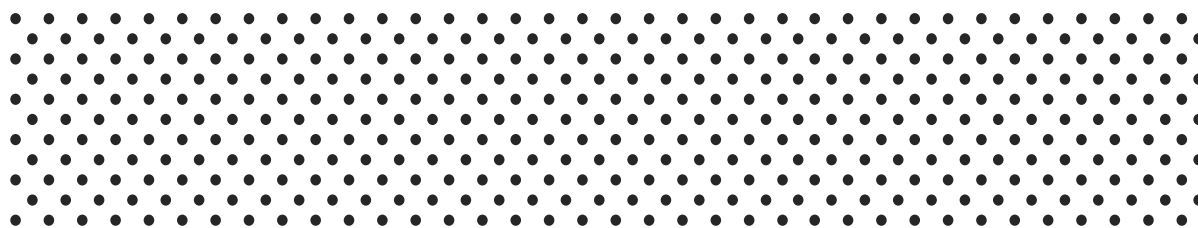




Drucker predicted knowledge workers would sustain by outright selling their expertise & creations. Indeed, individual thought-space creators can utilize similar monetization models through means like subscriptions, publications & merchandise. But the spatial web also unlocks alternatives centered on delivering cultural & social value persistently, rather than short-term profit or corporate motives alone.

Hybrid models become possible valuing monetary & non-monetary rewards for specialized knowledge work & access. Sharing one's passion freely while earning income from associated sources & services proves increasingly viable. Ultimately, thought-spaces fulfill the noblest aims of Drucker's knowledge economy by persisting online as living environments distributing empowering learning & agency at scale. They foreground community stewardship rather than centralized control. **If knowledge is power, then user-created thought-spaces place that power directly into the hands of a globalized many, not the isolated few.** This aligns with Drucker's humanistic hopes for an economy of mutual enrichment through leveraging information abundantly & wisely. As spatial computing progresses, we must ensure thought-spaces ethically elevate collective knowledge over personal gain alone – achieving Drucker's vision across virtual & physical realms.





Recognizing Thought-Spaces & Information Assets *As Intellectual Property*

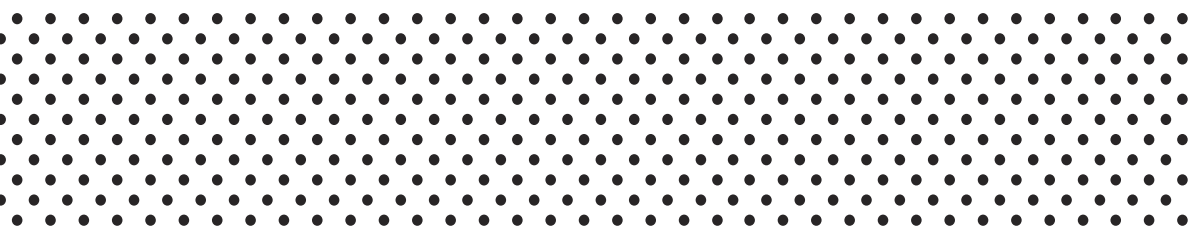
In today's increasingly dematerialized digital economy, data, media & information constitute some of the most valuable assets driving prosperity.

As software & AI continue to eat the world,

success depends on effective knowledge management & utility. Leveraged Thought-spaces provide tools to accumulate, organize & provide direct value in people's lives. Thought-spaces constitute entirely new digital asset classes & intellectual property poised to become some of the *highest-valued creations of our era*. Their value flows from persistent multidimensional utility unlocked through spatial computing & consistent use that expand into evolved multimedia troves.

Traditionally, digital IP took the forms of discrete artifacts like videos, images, documents. *Thought-spaces expand this notion into persistent environments capable of continually accruing & generating value through emergent community participation. Like a thriving city, a mature thought-space grows exponentially more valuable through the cumulative knowledge, assets & culture cultivated within it over time. The context they provide becomes irreplaceable at culturally historical levels.*

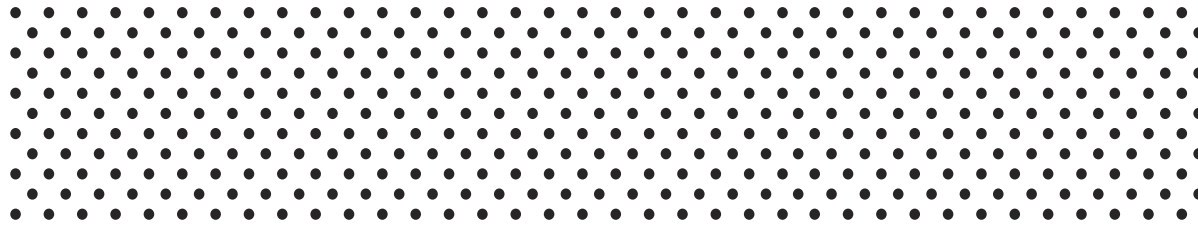




While digital goods can be easily copied, thought-spaces have unique signatures based on distinctive experiential choices. Their custom architectures, designs & content inventories can be distinguished each as singular.

This provides identity & prestige based on recognizable, signature aesthetic choices. A one-of-a-kind thought-space by a respected creator gains prestige akin to bespoke physical creations. In addition to their value as persistent digital capital, they also hold promise as multipurpose virtual production sets: cinematic & advertising environments. Their flexibility & total situational control enables cost-efficient configuration while taking deeper cultural root being referenced in external media, films & productions. Similarly, brands can instantiate pop-up shops, interactive exhibits & promotional environments tailored to current initiatives of the season. **Their cultural imprint marks value on both ends.** Using preferred verification methods & sales channels, scarce virtual objects, artifacts & designs within thought-spaces can gain provable digital ownership akin to physical works. Limited editions can provably authenticate through decentralized records.

Thought-spaces allow the emergence of entirely new creative & consulting classes online - those curating, designing & stewarding valuable knowledge ecosystems, creative collections & spatial design containers as life endeavors. Those who recognize & capitalize on this early will gain significant first mover advantage as spatial computing proliferates.

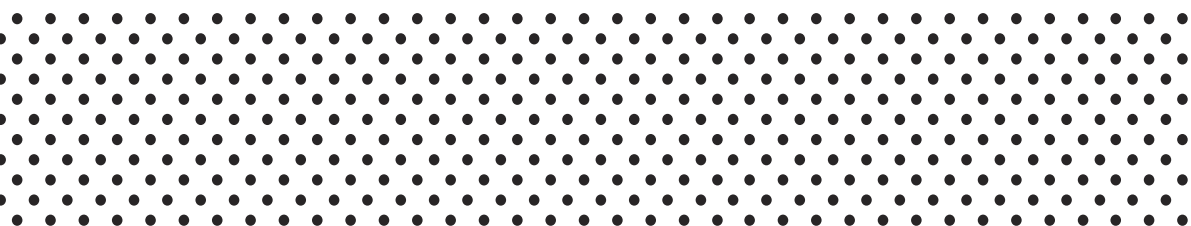


It's important to remember that unless being sold as commodities to individuals & brands or as fine art in the realms of auction houses & collectorbases, space alone does not provide value left open but empty & desolate. Before contemplating monetization, one must prioritize the value of cultivating their second brains & their assets. These living personal ecosystems organize & contextualize the raw material populating & defining virtual thought-spaces: their structure determines potential. **Without abundant nourishing sources, thought-spaces risk vacant barrenness, a lack of soul or resonant effect. We cannot emphasize this enough throughout the volume: tirelessly curating our interests & influences into frameworks mapped for easy synthesis & further expansion provides the foundation for success.** Even for the artist, having a recognizable & defined tone, language & resonant result of their creative choices differentiates them from the masses producing without clear intent, style or direction.

This steady accumulation of knowledge modules & creative output - notes, stylized models, archives, guides - constructs a repository of forever expandable, waiting to be repackaged as leveragable assets in their associated fields. Tend this garden daily. Its modular seeds bloom into varied harvests. With a mature digital neural center, thought-spaces elicit life through recombination & honor the personalities & missions of their creators. Constellations of thought emerge by projecting modules into fresh multidimensional configurations. Playfully recontextualize components - **re-use transports imagination & expands potential for evolved publications building off of the last.** Of course, not all fruits need immediate plucking. Patiently cultivated capital ripens over seasons, not days... that being said, **regular reinvention flexes creative muscles & pollinates innovation.**

Value accrues through time spent, value generated & attention given.
With care, personalized knowledge systems compound exponentially.





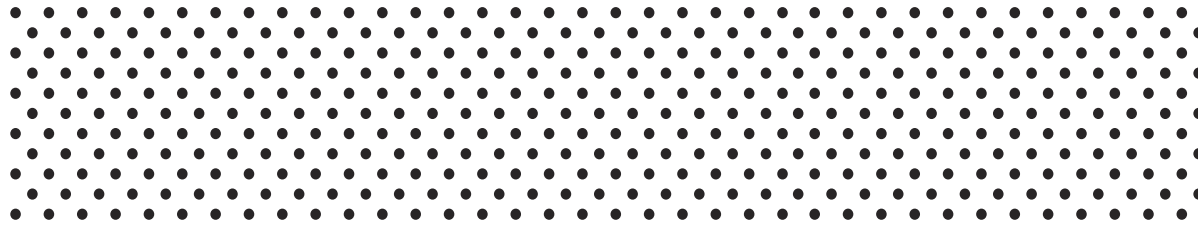
History shows that new mediums allowing communication & expression often face initial skepticism. Given time, talented practitioners master emergent tools to produce exemplary works that can not only match, but surpass what came before in cultural impact.

Spatial computing is poised for a similar, but amplified trajectory. As more builders ply their skills daily, virtual spaces unlock new potentials for creation & shared experience unconfined by physical limits. Naturally, some still view legacy physical artifacts as inherently more valuable than anything digital. I'd argue this relative value is rapidly inverting. Already, digital creations sell for higher prices than works bound by tangible constraints. Our studio is a living example of this.

This paradigm shift shouldn't surprise. Digital information flows without friction across space & time, without decay. We stand at the cusp of this inflection point in culture. **At a most basic level: consider the simple example of a high resolution photographic print file versus its physical print alone.** For commercial use & reproduction, the editable, digital original is effectively *thousands of times more valuable* than a static print that degrades & can't be perfectly recopied. The photo persists digitally unaltered by the ravages of touch, light, time or duplication while offering more options for return on investment from the beginning of the exchange.

Now expand this notion to entire multidimensional environments

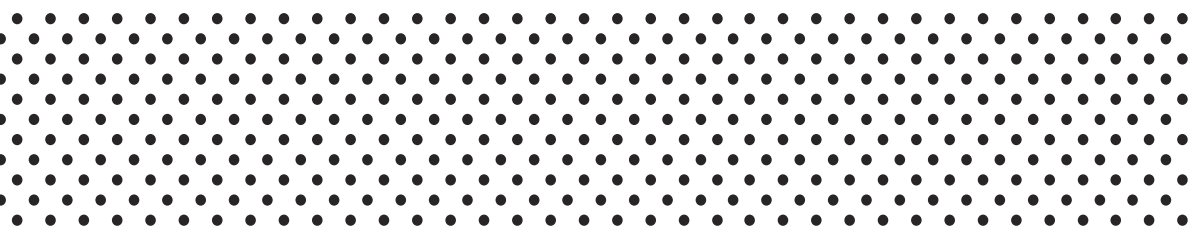
designed to benefit entire communities through social experiences & knowledge sharing: endlessly reproducible, improvable through updates, personally customizable & resistant to physical decay. Their advantages & cultural capital become immediately clear, yet their value remains radically underexplored by the unaware.



Thought-spaces designed with articulation & heart carry profound resonance. As creative tools improve & bandwidth expands, some of these realms will inevitably become as influential on human culture as towering achievements of physical design, engineering & academia were in their era, like universities of old, towering stone chapels & revolutionary architectural marvels. Notably, the only difference being analog constraints that limited their builders no longer apply & their foot traffic can be increased beyond one time or location. Of course, thoughtful regulation of new technology remains essential. **It's important to recognize that often, early lack of establishment acceptance stems from narrow visions of how emergent mediums entertain, *then* empower humanity rather than concerns about immediate utilitarian opportunities or ethical risks. Criticism will always exist, but the results are already on the table.** Today, entire virtual worlds & augmented cityscapes are being published by individuals working alone & interdisciplinary creative teams working in unison both on location & remotely as collectives providing a key difference: **rather than being steeped primarily in the awe of physicality or authority, digital spaces enable philosophies & imaginative visions to take form directly through experience & transparent growth.** Unlike past physical achievements focused on industrial expansion, seminal thought-spaces can directly seed cultural metaphors & social behaviors that directly benefit their users through skill building, networking & asset packages. They can inspire genuine action by embodying humanistic visions experientially, optimizing beyond simple logistics & access. ***Community, engagement, collaboration, returning users, word of mouth & organic growth:*** these are all buzzwords marketers regurgitate, dream about & sophisticate in context to online experiences but have never genuinely had to apply in real-time, human oriented multidimensional practice at scale beyond faceless 2D exchanges.

**This is ROI beyond vanity metrics
with exponential, persistent impact.**





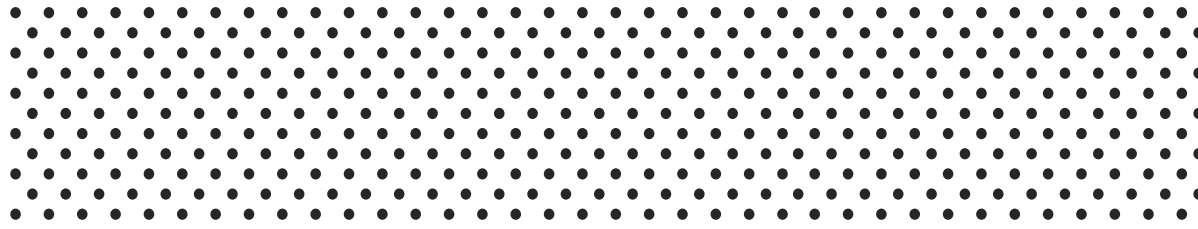
Creators dedicated to this mission view environment design as a philosophical, personal calling rather than simple vocation. They devote lifetimes not only to technical skills but also deep reflection on designing spaces that edify and enlighten. Thoughtful architecture requires an orientation toward service and meaning beyond slickness & technical complexity alone.

Today, certain individual works of digital art already sell for millions at leading auction houses. If singular images command such prices, wholly unique persistent virtual environments encompassing years of expert creative efforts will inevitably attract commensurate valuations in the coming decade. Some early thought-space creators are currently gifting first works to museums & institutions given their perceived cultural importance. Of course, placing sole focus on speculative dollar value & cultural elitism risks inflated thoughtlessness. Truly visionary spaces spread participatory creation across classes through collective elevation. Democratization amplifies impact exponentially.

Just as fine art patronage historically funded emerging forms like impressionism deemed radical at first, speculative investment in custom pioneering thought-spaces supports digital creativity's early flowering. A media's growth relies on attracting diverse talent through opportunity. Progressive investment propels ecosystems forward.

Ideally, speculation gives way to stabilized appreciation of digital environments based on the perpetual enrichment they seed rather than short-term profit motives alone.

Values shift from extraction to nourishment.



Some of us compare our role more to architects designing enduring sanctuaries than typical app & game designers churning out ephemeral products for profit above meaning.

We speak of crafting visitor experiences that unfold across years, not days - embedding layers of meaning & details that reveal themselves over time to sustain intrigue.

Repeat visits should feel akin to returning to a beloved city or campus whose allure only grows familiarity. **This ethos demands focusing creative efforts on durable knowledge & cultural systems over temporary novelty. Committing to spaces that edify beyond fleeting entertainment proves crucial for longevity & accumulating the richness that distinguishes timeless landmarks.**

Of course, democratizing creation tools empowers all to build personal thought-spaces creatively - though valuing singular high-craft environments pushes the entire medium forward through expanded possibilities. **Patronage plays a key role opening the gates for new frontiers, as it has across history.**

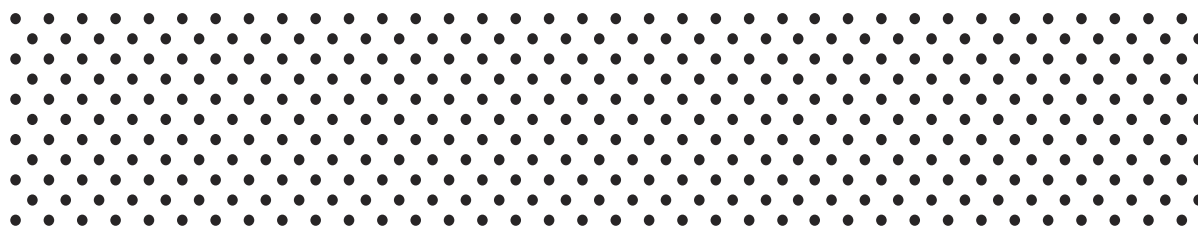
There will always be cynics dismissing emergent mediums, but digital space gifts us tools to build environments that enlighten minds & elevate entire communities like never before. Thoughtful regulation & design willing to question assumptions guides technology toward human progress.



I'd suggests that given time, spatial computing's vastly expanding frontier will surpass expectations as new young masters push possibilities further through dedication, imagination & rule-breaking.

The best works remain unbuilt by the next generation of digital natives, eager minds ready to learn specialized skills with patience & personal investment in their interests alongside a youthful, innate understanding of the landscape unfolding before us.



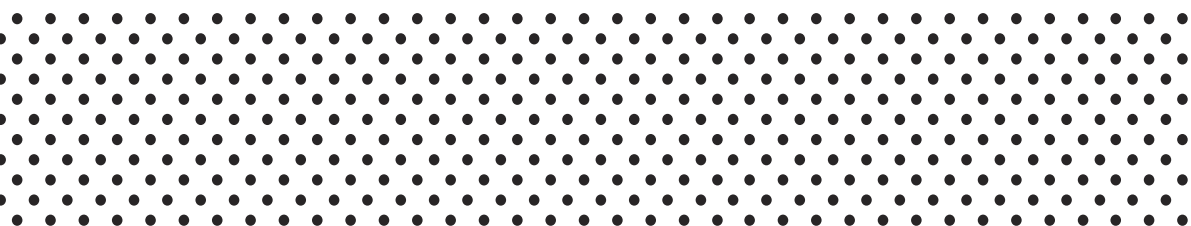


Practical Monetization

For thought-space creators pursuing their craft professionally, monetizing work sustainably allows focusing full-time on enriching spaces without constant financial pressures influencing design choices. Balancing revenue with integrity remains an art unto itself. Some emerging models provide creative livelihoods while retaining focus on community knowledge over profit-seeking:

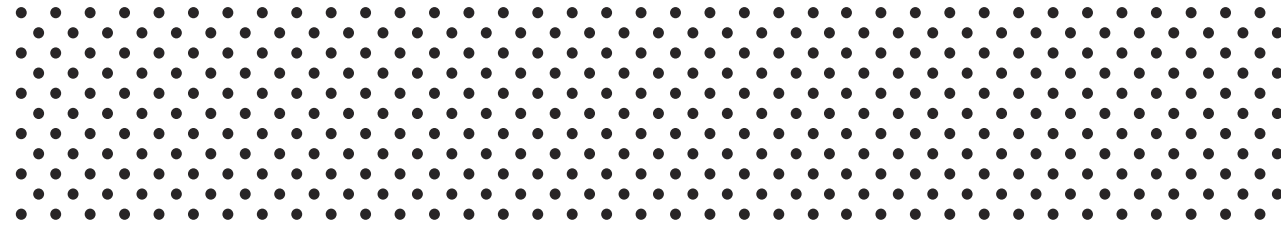
Clients & Commissions - Most immediately accessible from novice to adept: Clients fund creators to craft custom thought-spaces & assets for business, personal use or as cultural & onboarding gifts. This supports months of focused design time free of commercial directives while still allowing room for work to grow beyond it's creator. **At a commercial & corporate level, there are further mechanisms to deploy:** Certain consultancies are forming to architect designs for high profile, enduring brands & institutions. They speak of designing environments for cultural resonance across generations rather than short-term applications alone: crafting spaces that accumulate richness & significance based on the knowledge & experiences cultivated within through community interaction over time. This long-term orientation recognizes thought-spaces as accumulators of Cultural capital capable of appreciating perpetually if nourished - not as transient apps dedicated to tasks that become obsolete within years as fashions change or fleeting taps to boost arbitrary numbers. They embed their client's legacies & ideals experientially - seeding philosophical insights directly into the collective consciousness through immersive impressionistic cultural works that reshape minds & focused, evident truths through simple presence as exhibits, goals & identity shift. The clearest solution on successful implementation of this calls for maintenance & regular upkeep from a dedicated agency or from trained & hired members from within the organization, much like traditional salary seats for graphic & web design, social media & advertising members of a matured entity.





Intellectual Property (IP) Licensing - Licensing original thought-space IP elements as itemized assets (e.g. specialized code scripting, models, design modules & development kits) provides flexible recurring revenue without compromising environments or experiences. To retain timelessness we'll avoid diving into specific options, but there are myriad vehicles available for creators to offer their multimedia works, from prose to palace for sale on their own terms. Creative thinking & packaging will allow for faster rate of sale, better end user understanding & application. More we'll address further in the book when discussing ways to package & modularize multimedia offerings.

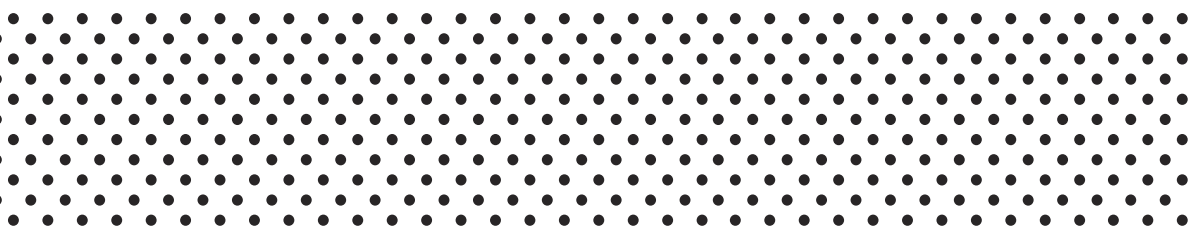
Other creators speak of establishing their environments as replicable, customizable belts of modular work & limited edition assets - foundational knowledge, ready-made models & builders development kits designed for wide adoption under open IP licenses. **This was the initial core of our business model at Propagation House when we began offering our designs to the public. It's worth nothing that at the time, offering buyers full access to customize & rebrand their spaces was in our industry, unheard of & openly spoken against.** Our goal was to craft easily adaptable cultural operating spaces embedding design philosophies & open-access workshops ready for individuals & organizations alike to instantiate their unique missions & knowledge within. Like ethical coding frameworks, they sustain values at scale through reuse as more templates are created, modularized & expanded upon. **This open, collective approach recognizes the adoption of thought-spaces as a group maturation process over encapsulated works. Encouraging remix & repurposing, their ecosystems & catalogs appreciate through reuse & contribution across various access groups, not niche isolation or singular use case.**



Consulting - Offering specialized services like consulting on thought-space architecture & knowledge system development provides lucrative extensions of core creation skills. This requires traditional understanding of working in the consulting sphere- but benefits of leveraging virtual thought-spaces both alone for work & with invitation of others have already been clearly addressed. Where many consultants in their early stages cannot afford brick & mortar or office locations, thought-spaces provide benefits to those with & without a physical address. Working as globalized intermediaries or permanent expansions of a studio or workspace, thought-spaces will completely revolutionize the landscape of the web & how users access it. Being proficient in design & deployment offers a results based key that can open the door into a billion dollar industry, as the expert designer *or* the onboarding guide. **Emphasis must be centered on the words *results based*.** Closing a deal doesn't confirm the workers ability to deliver - if one is entering the arena of consulting they must truly have an intimate understanding of fundamental needs, industry standards, expectations, implications & applications of the trade. This is much heavier than simple design commissions with low-risk & minimal budgets.

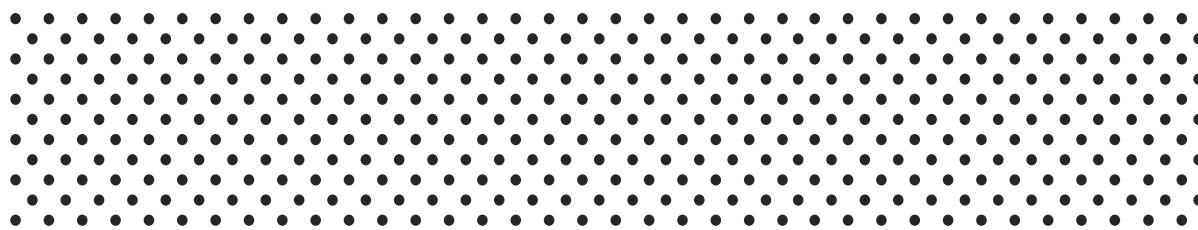
Contextual Sponsorships - Accepting sponsorships highly aligned with audience values & interests sustains creators without compromising integrity. Context determines fit. Working for free, on retainer, deal by deal or through non-negotiable terms are all more discussion to enter in depth with further writing. Recognizing the power of brand association isn't new for anyone already working in marketing, social media or online sales. The same effects apply here but at a higher level- beyond simple visual & social connections, visitors & special guests can interact directly. Simple 2D posts & old films from previous seasons or premieres become media that fans can congregate around & further deepen their lifestyle association with the brand at a genuine level, meeting like minded individuals in the process. Brands connecting with leading artists begin to be associated with cutting edge technology & culture they represent. **Organic connections form between the two in a positive sum game.**





Physical Merchandise - Thoughtful merchandise expands availability without depriving virtual works of exclusivity. Integrated wearables from hoodies to poster prints become cultural identification that again, ties into daily life & mirrors their experiences online. Thought-spaces & their assets can today, be tied into nearly any physical merchandise large enough to hold a QR code, URL or NFC chip. Unspoken but being stated plainly now: if you're holding a physical copy of this book, you're already holding direct access to a virtual thought-space design of your own, ready for use online. Understanding the ease of asset integration & the joy of discovering it, whether it be via digital or physical format can absolutely transform brand approaches.

Subscriptions & Memberships - Subscriptions providing continually fresh experiences, content & value sustain recurring patronage. Members feel ownership in something continually evolving while retaining the benefits of their personal backup of provided media over time. This can work across timelines: weekly, monthly, quarterly & so on. Having already discussed the ability for news outlets & interest groups: consider musicians hosting private listening sessions, community studios & offering consistently released packs of audio stems, sound design kits, eclectic themed mixes or assets needed for production. Then think about how every time a user leverages those assets, credibility & awareness return back to the source alongside external project success. Understanding the same concepts of compounding value & culture over time, private gardens can give creators full control of who has access to their work releases & how they're sold. This was another early experiment & offering by our studio in context to virtual environment design that has continued to work for us.

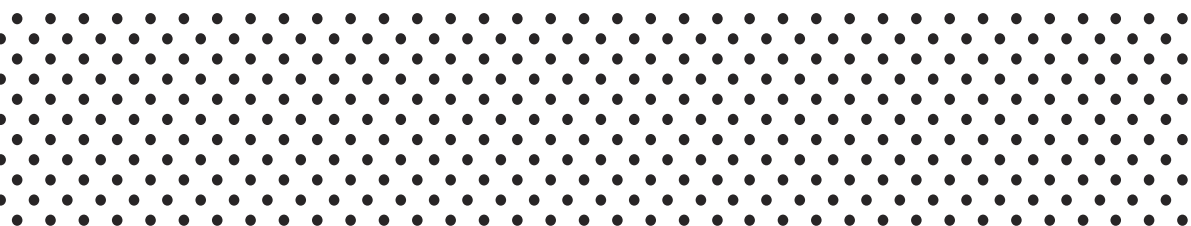


Exclusive Events & Private Auctions - Timed exclusive events & meetups build community while rewarding members with recognition & surprise access. Scarcity of seating isn't always advised, but recognizing that tickets can be sold empowers hosts to incentivize guest speakers, contributors & creators to share their time with their community while compensating them for their time. For gallerists & artists, this ties in with the ability to host private exhibits & pre-sales or host events that allow for print & sale on demand via preferred payment methods. Gallery space costs thousands of dollars, now it just takes know how, good curation & proper strategy. Steps further, hosts can assess the potential stream of income to be found in generating successful sales for other artists. **Some creators are exploring hybrid patronage models where supporters contribute to receive benefits & access in the project space's early phases, followed by wider public release after a substantial head start.** Early patronage secures sustainability while retaining future inclusion via accessible first offerings that unlock later updates. Thoughtful regulation of commercial activity within shared thought-spaces will help maintain balance as spatial computing & digital culture expands.

At their core, sustainable creator models rely on cultural priorities lead over immediate profit-seeking. Values drive value.

Of course, monetizing through any model risks tainting design choices with creeping, intrusive commercialism if not boundaried well. Maintaining integrity despite money's influence constitutes a balance: but I'd state that the natural inclination of the internet has always been to give generously to creators who produce consistently, offer insight generously & retain direct contact with their communities & fans. *This should be a direct, confirming nod to the future of thought-space landscapes & the expanded powers they offer to do just that.* But the alternative of forcing creators to split focus between passion projects & commercial work perpetuates greater tensions. Full-time efforts exponentially increase thought-space richness & utility over fragmented time, but aren't required to prevail in the long-term.

Like a fire in the rain, start *small* & grow **big.**



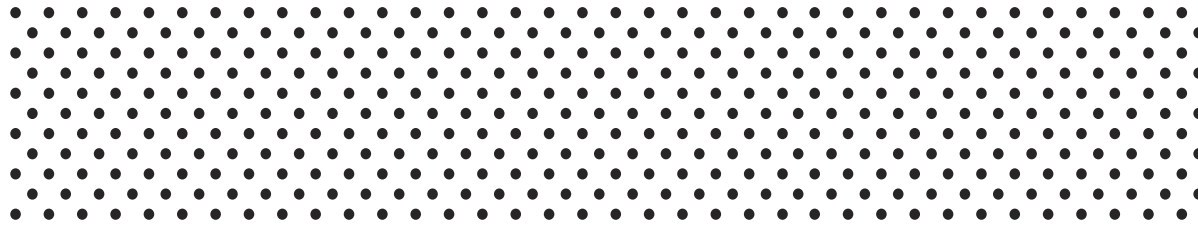
Both bespoke custom spaces & replicable frameworks aim to seed cultural resonance & digital public infrastructure for the future, beyond their initial brand release. They take responsibility for how environments shape every mind spending formative time within their contours.

Whether through unique imaginative visions or provisions enabling communal growth, patronage plays a key role freeing top thought-space studios to chart virtuality's most empathic & constructive frontiers without needing to constrain or compromise creativity for commerce.

Of course, funding modes risk skewing spaces to patron motives over public enrichment. But thoughtful regulation & community stewardship will maintain integrity as spatial computing proliferates. **Sustainable thought-space creator models exist supporting both full-time cultural innovation & open knowledge exchange.**

As core strategy: mission & purpose leads revenue.

By valuing spaces based on the perpetual media & information they propagate over extracting transient profit, thought-space creators lay foundations for an empowered era fueled by collective & niche interests equally. Patronage is only a small spark of adoption for our rising future, but it will sustain pioneers & creators laying frameworks & infrastructure today.



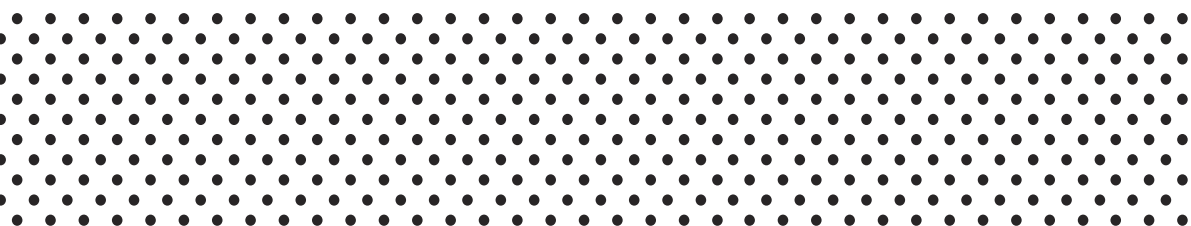
Opportunities & Implications of Virtual Production

- By merging software, interactive game engines & cloud infrastructure, virtual production provides building blocks for the next generation of dynamic content, advertising & immersive digital experiences. By eliminating the need for physical stages, equipment, permits & logistics, virtual production massively accelerates content development cycles. Entire high-fidelity productions can go from concept to execution within days rather than months. Creators bypass external dependencies like weather, permits, equipment rentals and crew coordination. Everything required is orchestrated on screen, on demand. This agility is invaluable for meeting today's demands for fresh content across multiple channels daily. As virtual & augmented realities become increasingly pervasive, innovators across industries are embracing virtual production as an essential toolkit for engaging digitally native audiences. Its expansive potential spans applications from marketing campaigns to data visualizations, architectural walkthroughs & beyond. We are witnessing only the first rays of a new creative era illuminated by virtual production. **At its core, virtual production expands the creative palette beyond physical constraints. Using real-time 3D engines & simulations, creators can manifest anything imaginable with photorealistic fidelity. Dreamt up landscapes & geographies, concept vehicles, experimental architecture – virtual production & spatial design turn ideas into assets & locations ready for use across contexts.**

With a single computer,

creators gain access to virtual stages, cameras, lighting & any required equipment or environment. millions of dollars' worth of equipment can be simulated with precise control of environmental factors. Moreover, the creative freedom offered by virtuality is unparalleled, allowing for creation of camera angles & perspectives once deemed virtually impossible. This flexibility exceeds the capabilities of traditional studios or Hollywood budgets.

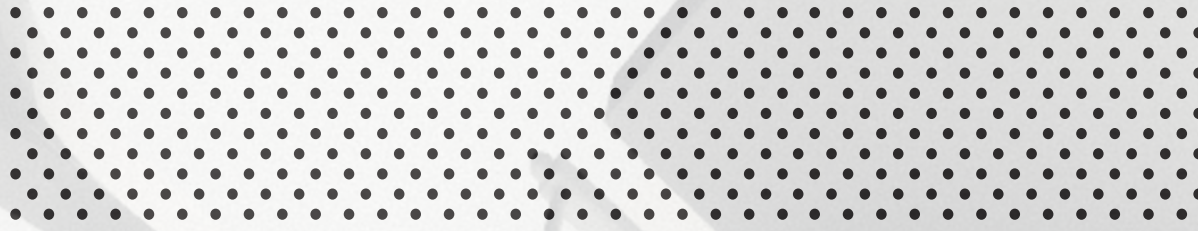




The ability to adjust any detail & re-render a scene or active thought-space rapidly also encourages iteration. Creators can improvise & experiment, then analyze data to refine storytelling. This build-measure-learn loop replaces one-shot production risks.

As the imperative for sustainable business grows, virtual production provides a greener drafting, documentation, distribution & design methodology. By minimizing physical shoots, transit, venue rentals & waste, it shrinks the carbon footprint substantially. Everything from shoots to new clothing concepts can be created in digital first- this may have been true before, but not in a way that is interactive, risk free & required such minimal material resources before physical production begins. Massive power rests in **unlocking the power of reusability & iteration:** One of the most significant advantages of virtual production lies in its ability to reuse & upcycle 3D assets in new media formats. By creating a library of versatile assets, scenes, & lighting setups & camera paths, creators can effortlessly iterate & adapt their content to fit various contexts & campaigns. This reusability not only saves time but also allows for extensive A/B testing, providing valuable insights & analytics to drive informed decision-making. This leads to more efficient, impactful, sustainable campaigns.

Counterintuitive at first, this ethos resonates strongly with organizations & recreational brands embracing environmental responsibility as part of their mission. Outdoor companies can align thought-spaces & virtual production with their values around nature conservation & stewardship in a way that bridges the gap between worlds while providing genuine resources to their audiences. **Technology & environmental responsibility can thrive in tandem, it just requires a connector willing to recognize the means in which to both articulate & connect.**



Virtual photography

has become a powerful tool for documenting & legitimizing the shared human experiences that unfold within virtual spaces & I think it's time we began to recognize it as such. As a decade long photographer myself, I can attest to this. **More than simple images - these are powerful tools for elevating the cultural relevance & social value of virtual spaces.** Just as street photography in the physical world has long been instrumental in shaping public perception and discourse around urban spaces, virtual photography is now poised to play a similar role in the emerging spatial web.

When people gather, interact & create meaning within a virtual environment, they imbue that space with a sense of reality & significance, regardless of its physical intangibility. The photographs they take & share serve as evidence of those experiences, memories & emotional connections. They make virtuality real & relevant to a wider audience. By training their lenses on architecturally & visually striking or socially vibrant virtual spaces, photographers significantly boost the "street capital" of these environments. **An evocative, masterfully composed image of a virtual lounge or plaza can instantly put that location on the map, drawing curious visitors & potential supporters. A series of photographs capturing the unique style & energy of a virtual district can establish it as the trendy hub to see & be seen in.** In a vast, ever-expanding net, the spaces that capture widespread attention & interest will often be those immortalized through the eyes of skilled photographers. This power to anoint and elevate virtual spaces will inevitably attract the attention of advertisers and merchants seeking to capitalize on the buzz.

Just as savvy brands in the physical world clamor to be associated with culturally relevant streets and neighborhoods, we can expect to see a similar dynamic emerge in virtuality.

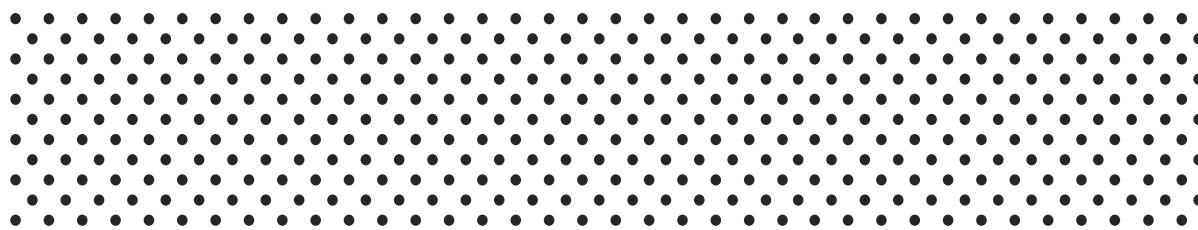


Of course, this commercial interest can be both a blessing & a curse. On one hand, the influx of advertising dollars & mercantile energy can further enhance the popularity & vibrancy of these spaces. On the other hand, there is a risk of over-commercialization & loss of authenticity if the balance tips too far.

As in the physical world, it will be up to the virtual community - including photographers - to thoughtfully negotiate this tension & advocate for the preservation of cultural integrity alongside economic interest.

Ultimately, these virtual photographers wield significant power in shaping the cultural landscape. Through their creative choices & curatorial eye, they will play a key role in deciding which spaces are elevated into the pantheon of digital destinations & which are left to languish in obscurity.

It's an interesting path... one that calls for vision, integrity & a deep understanding about the power of the image to transform our collective interest & imagination. Layers deeper, this medium invites us to revisit our ideas on the nature of what "reality" *is*.



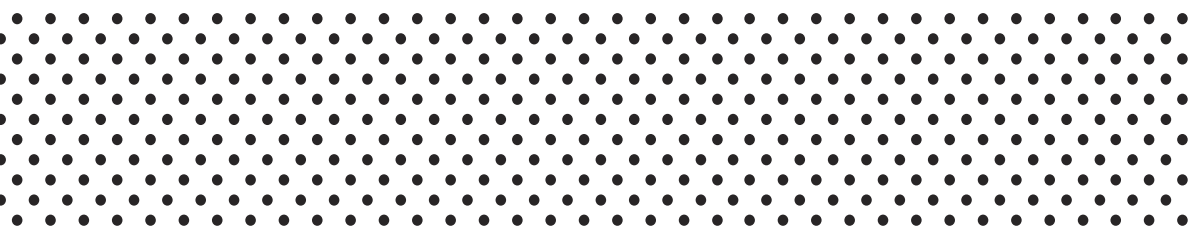
Recognizing the Next Generation of Digital Natives

As the first generations of true digital natives come of age, their norms, expectations & intuitions will redefine culture in ways we must deeply comprehend, or at least begin to wrap our heads around. While older generations viewed technology as novel add-ons, digital natives embody a decentralized mindset innate since birth.

Defining Digital Natives - Digital natives can be broadly defined as those born after the proliferation of digital technology, the internet & social media. For them, seamless digital abundance, connectivity & virtual collaboration represent intuitive baseline realities & standards, not novel privileges or wonders.

They are native speakers of the digital language. GUI & ever-shifting digital interfaces form their instinctive habitats, not tools requiring learned translation. Just as older generations effortlessly absorb physical reality's constraints, digital natives fluidly navigate virtual possibility space as a naturalized homebase. Of course, clear delineations never exist. Some elders embraced early cyberspace as innate territory while some youth remain anchored in physicality. Divergence in adoption curves persists across ages & cultures. But in general terms, **digital natives have only known a world woven together by electronic signals & decentralized media sources. For them, geographic distance feels increasingly irrelevant & *mental proximity* defines relationships.**





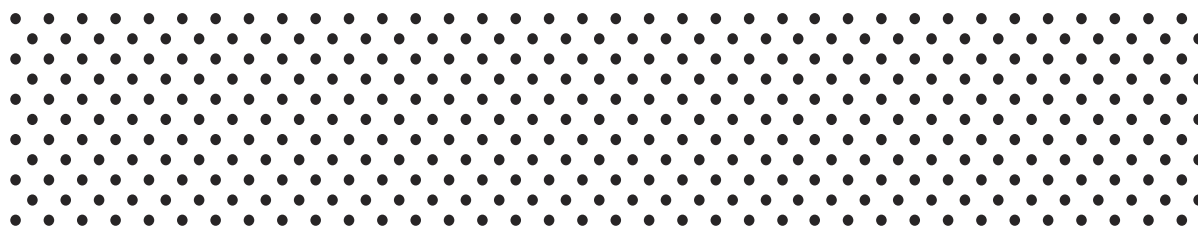
Immersion in fluid digital space from birth cultivates radically distinct perceptual modes. Hyperlinked informational abundance form subconscious mental maps as networked ecosystems. **Identity becomes an amorphous construct freely editable in cyberspace rather than immutable physical genetics & geography with walled horizons for those feeling stuck in their physical locality.**

Avatars represent chosen personas. Names serve as contextual handles.

For digital natives, reality itself feels malleable & open to augmentation. They expect objects & environments to respond intelligently. Static interfaces feel oddly inert. Digital layers of integration reveal possibility atop the mundane. Of course, physical needs persist - hunger, shelter, touch: but the boundaries between realities increasingly blur & overlap daily through technology designed thoughtfully around human needs & cognition.

Digital natives will increasingly perceive “life” as hybridized virtual & physical existence where seamless toggling between realities according to contexts is a casual, daily norm.

The question “is it real?” evolves to encompass digital relationships & achievements alongside physical. They're born with the innate understanding that digital & physical realms coexist in one reality.



This expanded conception of presence & identity will influence mass adoption of augmented & virtual realities focused on human connection over hardware alone. Social presence bridges distance through thoughtful technological embodiment designed around innate social signaling. As digital natives continue maturing, their subtle perceptions & desires will redefine culture & commerce. **Youth & minorities so often radar the future first through intuition untouched by old rules or honed as outsiders using creativity & awareness for leverage where traditional channels block them out. Their insights reveal mass desires soon to emerge.**

For digital natives, technology is not a separate sphere from life but one of the defining contexts of their existence. Using a smartphone is not “going online” but simply being. The digital world does not feel virtual but manifests tangible spaces for creation, exploration & relationships across mediums. **Now in their formative years, virtual worlds already function as sandboxes for connection, play & creativity. Youth are growing up with a globalized experience without a second thought. It's hard for us to recognize the gravity of this shift as many of us grew up alongside it's steady evolution.**

If we can remember dial-up, or even the first time we accessed the internet on a mobile phone with a fond nostalgia before recognizing just how short a time ago that truly was, what do you think teens of today will look back on in 2030 when the exponential curve of integrated technology has only just begun?

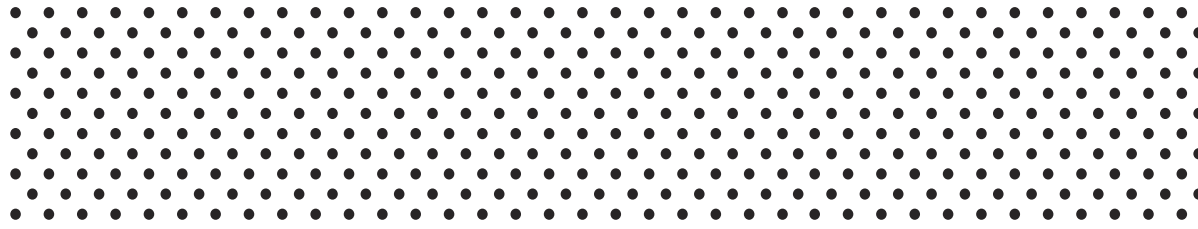


All of this considered, embracing liberating new technology comes paired with obligations for thoughtful stewardship.

As digital permeates identity, urgent challenges around ethics, privacy, equity, agency & governance arise. Responsible regulation and design innovation must provide empowerment without overreach. Early parental guidance, healthy moderation & commercial limitation defend minds still forming.

The promise resides in elevating imagination & regard for conscience with empathy across both realities. This project begins with asking youth meaningful questions about purpose. Teaching youth to discover their interest & dig deeper while remaining critical of information, sources & narrative bias should become a foundational, ongoing conversation throughout their formative years & beyond. I'd argue that with age, many of us seem to lose this ability through constant barrage of those speaking loudest, most often across channels in a way that we cannot unsonsciously escape.

Through teaching conscious practices, we train ourselves, our children & our students to form endorphin release & subconscious reward systems around strengthening neural pathways both physically & digitally. Through time working with & developing these systems of creating secondary brains & personalized thought-spaces, I can personally attest to the power of being able to step back, analyze personal behaviors, focuses, hyperfixations & energy leaks around thoughts or projects that won't retain any personal development or financial value. Research turns into a game, production turns into a relaxing pastime, critical analysis & consistent review become habitual & refreshing. Most importantly, time spent online & media consumed become viewed through a holistic, inquisitive, critical nature.



As the vanguard of digital natives mature into adulthood over the next decade, their innate perspectives will ripple across culture, disrupting norms & expectations aligned with a physical-first world. The waves of their influence will reshape society's conceptions around identity, relationships, authority, property, privacy, governance & more in their image.

**To understand tomorrow,
look to youth now.**

In the workforce, traditional notions of career progression & learning will feel increasingly obsolete to digital natives. They view life as continuous education across contexts, not isolated knowledge extraction in classroom captivity. For them, work mixes fluidly with passion projects, learning, creation & self-actualization: all keywords we've repeated throughout this book in various contexts for good reason. Sear them into the mind, they are the keys to kingdom. Success resembles unlocking their civilization's deepest potentials above occupational status & material gain alone.

They expect distributed collaboration unhindered by geographical borders or rigid organizational hierarchies.

Value derives from diverse alignments around common purpose, not singular monocultural domination.

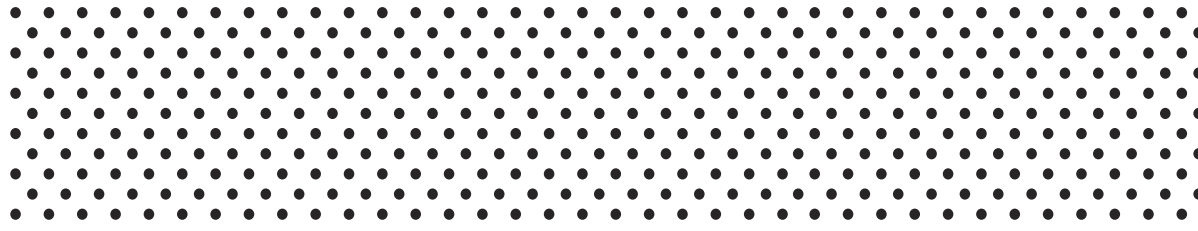


Education will become synonymous with freely accessing the widest Varieties of skills and knowledge globally.

Traditional institutions must dramatically evolve or fade into relics.

Curricula centered on instilling compliance & conformity will prompt exodus. Digital natives seek learning spaces that empower questioning, critical thinking & open-ended collaboration. Human guides providing care, inspiration & mentorship remain irreplaceable. But as we'll get to soon, rote instruction will increasingly shift to AI tutors responsive to individual learning pathways. Students grow through creative exploration & dialogue, not redundant fact repetition, regurgitation & memorization alone.

Work will blend with realities as formal offices give way to fluid virtual studios for autonomous creation & networked cooperation. Productivity & innovation arise by aligning diverse perspectives, not rigid central control.

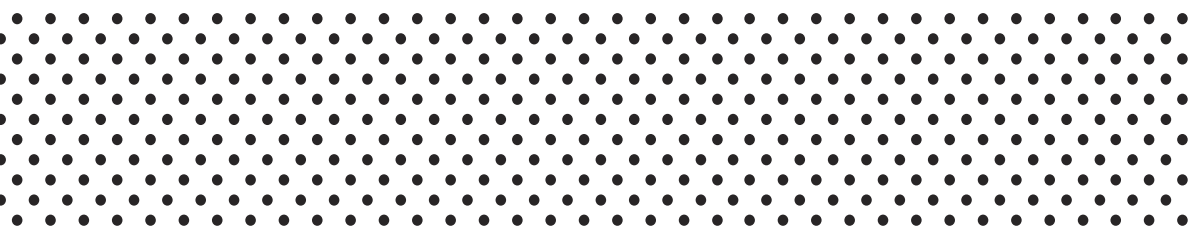


Subtle Behavioral Cues like aesthetics, branding, sonic identity & interface ergonomics will increasingly influence digital natives' sentiment & affiliations. **Details once deemed superficial will transform into pivotal relational touchpoints...** For example, **discordant visual styling across a company's physical & virtual presences may read as profound disunity. Visual consistency builds trust.**

Every interface interaction trains algorithms guiding machine relationships & opportunities. To natives, consistent physical & virtual presentation marks trust & shared values. They investigate beyond surface symbolism into deeper ethos. As thought-spaces become primary social & economic spheres, previously trivial micro-cues gain outsized influence in guiding behavior. Our brains evolved exquisite sensitivity to social signaling - now accelerating online, evolving our recognition of visual symbolism & utility even further.

Redefining Identity & Property - For digital natives, virtual spaces promise to redefine fundamental conceptions around property, privacy, and identity. Their innate sense of embodiment already flows across the membrane between realities. Augmented existence is assumed. As AR and VR mature, their stewarded integration proves critical. Virtual property & assets will eventually lose differentiation from physical items. Value & identity persist fluidly across worlds. Concepts of open source community assets and collective intelligence will feel intuitive to natives. While respecting IP, defaulting to cooperation and transparency gains normalization. Self-interest aligns with collective benefit.





Demanding Responsible Design - Digital natives entering adulthood will demand ethical tech design, purposeful innovation & reform addressing unintended consequences. Issues like privacy, addiction, misinformation & machine bias will enter mainstream discourse as their ubiquity increases. Policy debates once marginal gain electoral significance as natives develop political voice. Ideally, they will leverage their market influence & mass adoption to pressure practices reinforcing integrity & social responsibility. Companies not proactively addressing ethical concerns will face extinction, or worse: communal execution.

A spatial internet designed, governed & accessible by all - eliminating gatekeepers while guiding community standards collaboratively - represents the ideal natives strive toward.

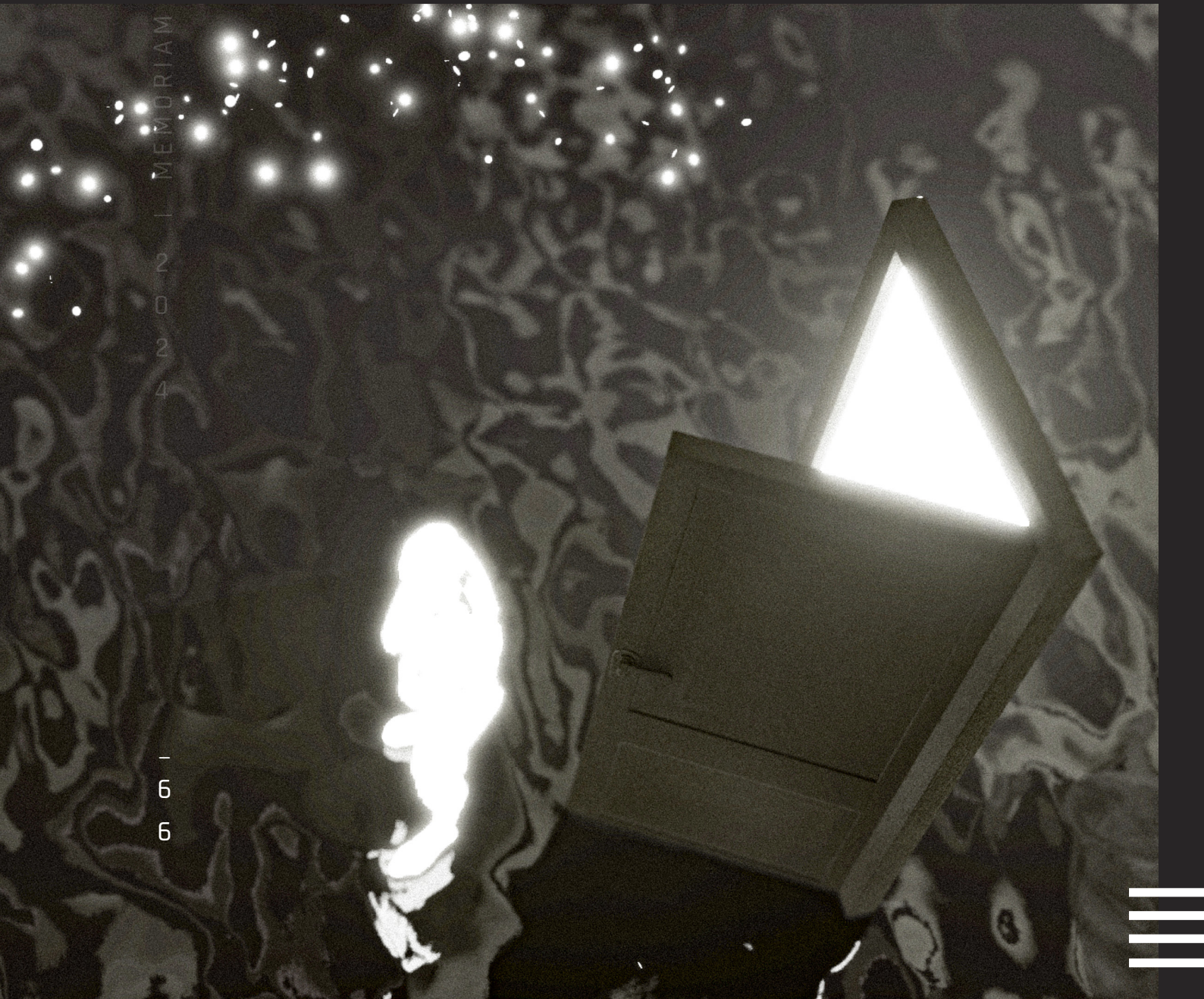
Guiding Our Hybrid Future - No generation births definition in isolation. Progress resides in exchange between cohorts balancing continuity & disruption. As pioneers of new frontiers, digital natives draw wisdom from previous generations' ethical accomplishments while driving fresh perspective & action. With care, their innovative thinking complements hard-won experience.

Shared dignity in diversity leads transition. By guiding technology toward equity & empowerment, we bridge the gap between generations & set precedent for those after us, globally. With patient guidance, digital natives promise to pioneer an era where democratized information, empathy & collective possibility surpass isolationism, hatred & cynical self-interest.

Beginning the journey of Spatial Design:

This foundation empowers you to begin shaping thought confidently in virtual dimensions & parallel space. We focus here on core philosophies rather than technical details so concepts remain timeless. As you continue learning technical skills, stay anchored in elemental principles & purpose. With a little or a lot: Fundamentals are what make the difference.

Don't feel overwhelmed. Many will voice these arts as something untouchable, graspable only by polymaths & savants.. this is simply untrue. Virtual space as a medium we can experience true presence within is new to us all. These tools can be used at their core, basic ends or with extreme utility & personal customization, but access is already available to the curious.



With this short orientation of thought, you are ready to begin
drafting thought-environments uniquely your own.

Empty space awaits formation.

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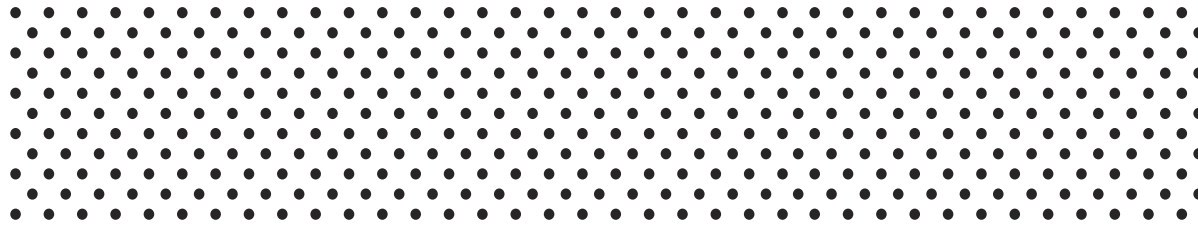
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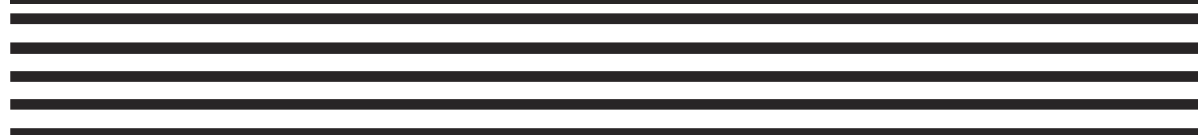
Such a future isn't an unreachable dream; as artificial intelligence continues to surge forward at an undaunted pace, this vision edges ever closer to becoming our regular reality.

While concepts like "second brains" encapsulate the potential of virtual space to enhance our memory functions, the idea of an AI Thought Partner(s) delves deeper, heralding an actively engaged, observant entity. At a baseline I've come to call these perceived agents & their makeup as "Conversational Data".

This is what turns a space into an operating system.

A veritable understanding partner, it comprehends your thought processes & creative streams, holding the power to both tap into unrealized potential & hold it's user accountable for unrecognized habits. **Through years of fluid conversation with this intricate system, it curates a profound, detailed profile that encapsulates characteristics that define you.** The system's curiosity extends to dissecting your various projects, scrutinizing the contents of your journals, appreciating your artistic preferences & digestive medias of your interest. With the keys to your kingdom of ideas & achievements, it gains razor-sharp insight into what makes you, you.

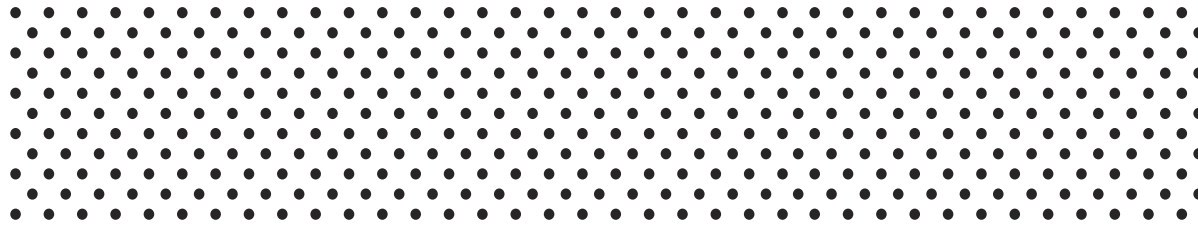
Equipped with this understanding, it can identify links buried within the labyrinth of your mind. This includes connections that you may have failed to notice or perhaps have lost in the cascade of thought. The system breathes new life into the embers of inspiration you'd forgotten, weaves unrelated ideas into a cohesive design & projects prospects that seem to exhibit an eerily predictive nature. Additionally, the system's grasp of your strengths & weaknesses can balance out areas where self awareness lacks. As an expert on you, This detailed understanding turns the AI & your data into an exceptional intellectual sparring partner for the refinement of ideas. By engaging with this ally that comprehends the workings of our minds with greater clarity than we can achieve alone, we pave the way for dormant talents to unfurl their full potential.



On a deeper level, such a system holds up a mirror to our inner selves. Through its eyes, we gain insights into who we truly are - our deepest talents, our untapped potential.

It's an investigative & productive companion on the journey of self-actualization.

Of course, care is needed to avoid over-reliance on external validation. Creativity & curiosity ultimately arise from within.. But gentle guidance from an intelligent partner can help uncover what's been there waiting to surface all along.



Given such insights, AI can provide tailored suggestions that may catapult you in directions you hadn't previously considered:

These may include advocating for artistic motivations beyond your usual realm of interest, identifying unexplored media landscapes, or highlighting possibilities for fruitful collaborations & experiments.

In the role of a Creative Challenger, your conversational data actively helps you avoid falling into cycles of repetition by gently nudging you towards unfamiliar grounds.

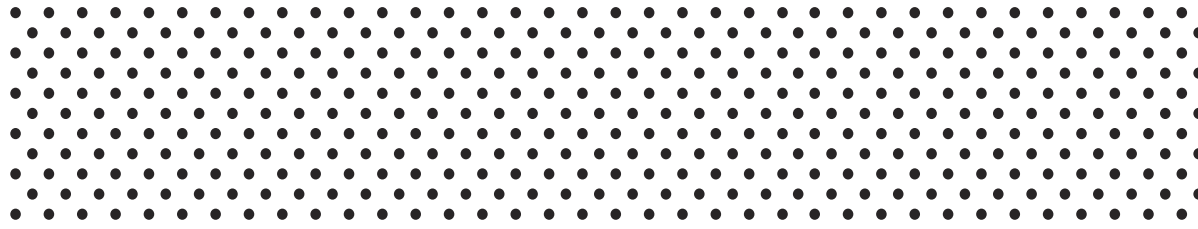
Upon request, it has the capacity to summarise key threads of concepts & subterranean themes threading through your life's work. It can pinpoint areas you may need to improve within your skills & knowledge. It showcases incredible astuteness in deconstructing your projects, thereby discerning patterns of your creative methodologies & psychological inclinations at depths that might surprise you.

Human accomplishment often manifests when internal determination aligns with external circumstance. Perhaps by seeing ourselves through the discerning lenses of these knowledgeable companions, we can comprehend the unexplored expanses of our dormant originality & creativity in



AI also shines at intuitive idea generation.

By processing indexed information, it can effortlessly generate a plethora of new ideas at the drop of a hat. This, coupled with its ability to understand human motivations, hints at how incredibly groundbreaking this technology could be for professions that depend heavily on creativity. Painters, writers, educators, researchers, entrepreneurs could all benefit from incorporating AI Thought Partners into their work.



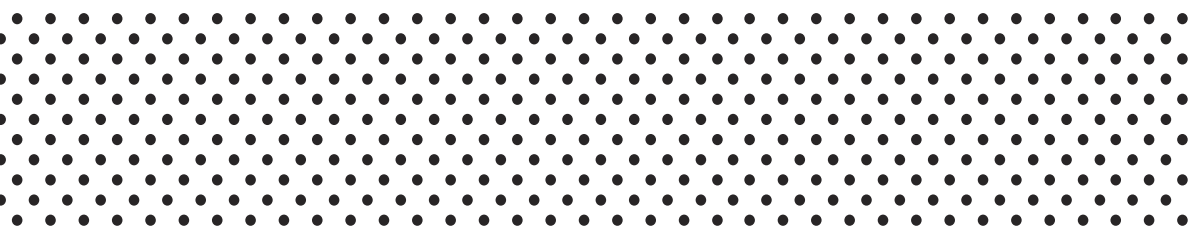
In a world where unique perspectives & groundbreaking ideas are the new currency, the value of an AI Thought Partner is indisputable.

By having a thought partner that is not only capable of understanding & transforming our latent ideas into reality, but also able to challenge conventional wisdom & bring forth fresh perspectives, we can unlock unimagined heights of creativity, fostering a revolution in intellectual & artistic pursuits.

Yet, while Thought Partners offer vast possibilities, it is important to remember that they are tools meant to enhance, not replace the richness of human cognition & creativity. A crucial aspect of this relationship is the creation of a dynamic where the human & AI work synergistically. The system's insights ought to inspire self-reflection & spur curiosity rather than be accepted as the sole & ultimate truth.

Furthermore, the platforms used to contain, integrate & interact with AI Thought Partners should encourage critical thinking, ethical consideration, & foster a healthy relationship with tech integration. By maintaining a balanced attitude, recognizing AI as a creative tool & continually questioning & exploring its potentials & limitations, we can harness the transformational capacity of AI Thought Partners while avoiding the pitfalls of technological dependency & polarization.





Finally, these AI partners can further accentuate the beauty of human intellect. They could reveal to us, through careful analysis, just how limitless our minds can be. These systems might enable us to harness our latent potentials, unearth our inherent originality & usher in an era of accelerated intellectual progression. In combination with our personal courage & self-understanding, these seemingly humble AI partners can indeed serve as keys to unlocking the treasure trove of creativity & raw thought hidden within us.

Navigating in collaboration with AI Thought Partners, we might sail towards a future where our creativity & curiosity are perennially nurtured & continually evolved – a culmination of the passions & commitments that make us uniquely human, enhanced & invigorated in concert with the unparalleled analytical prowess of AI.



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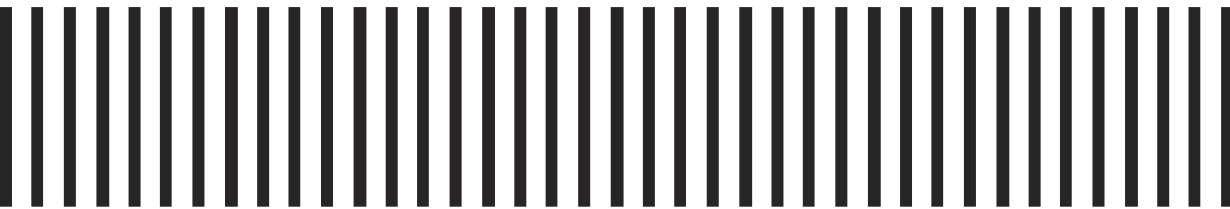
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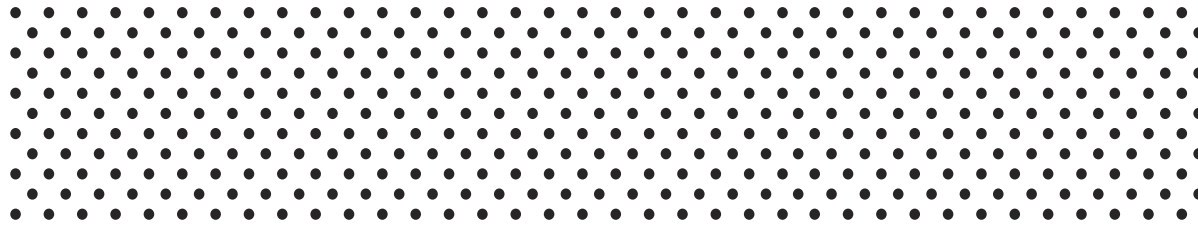
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Generative Multimedia: Turning Individuals into Powerhouses

Generative artificial intelligence represents a seismic shift in how individuals & small teams can produce expansive multimedia works, interactive experiences & dynamic content. For independent artists, researchers & producers, integrative access to these exponential generative capabilities promises immense opportunity - projects once requiring studios & massive budgets can now be created & iterated strategically in fractions of the time by individuals. By combining their unique creative visions with AI's exponential generative capacity, lone creators can output expansive new works spanning mediums & genres. Text, music, video, 3D - AI amplifies singular voices into prolific studios.

This is where leveraging generative AI within evolved thought-spaces proves transformative. A creator's accumulated projects, styles, themes and media act like DNA - generative tools reference this unique catalog to aid production of further works aligned with original visions. Without this contextual foundation, generative content easily drifts into aimless, fragmented noise.

Thought-spaces provide the ideal environment to accumulate this requisite creative DNA. Years of output across mediums become controlled, curated training data for our personal AI partners. By steeping tools in their existing creative corpus, individuals can prompt AI to produce inspired new configurations & content aligned with their styles. **The creator guides the direction; AI adds rocket fuel realizing their vision's reach.**

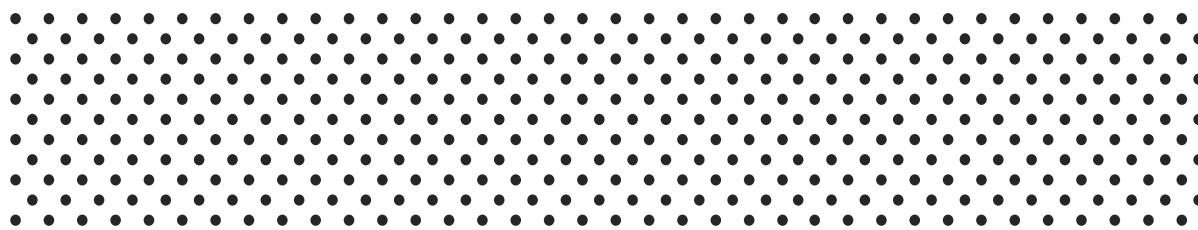


Thought-spaces provide the contextual frameworks needed to guide AI output. Their knowledge repositories inform creative AI with inspirational source material. Direction funneled from a creator's second brain allows generative tools to extrapolate new content as cohesive expansions of previous works.

With mature thought-spaces populated with years of creative output as training data, individuals transform into generative media powerhouses. AI continuously produces inspired new configurations & expansions of signature media assets, stories & styles.

Human oversight curates this exponential flow into polished artifacts. While AI generated content scales infinitely, human judgment ensures resonance.

Thoughtful pruning focuses possibility.



Generative Design: Expanding Possibilities

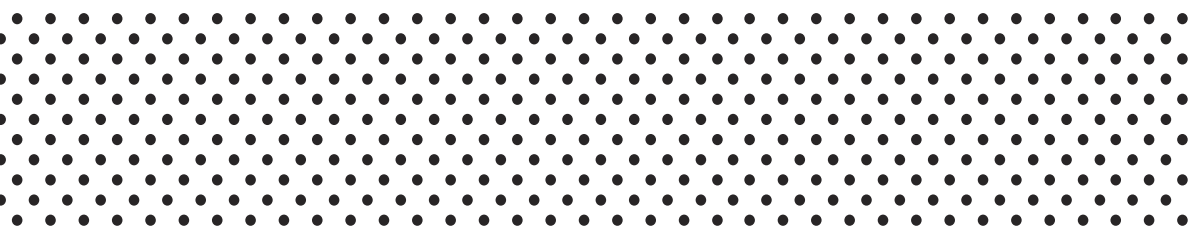
As a creative studio focused on virtual space, environments & design we are constantly exploring emerging technologies that can assist or enhance our architectural & experiential visions. This includes responsibly leveraging generative AI.

Rather than viewing these tools as threats, we embrace them as collaborators that supercharge human creativity & output. Artificial intelligence adds to our palette - it does not replace fundamental handcrafted design skills or more importantly, fundamental design understanding.

We implement AI in targeted ways that increase our possibilities, while maintaining full creative oversight over final output quality & coherence. Our goal is conscious integration of AI's exponential capacities guided firmly by human values.

For example, we are actively experimenting with AI systems that assist in conceptual ideation & iterative prototyping. By feeding these tools images of our past works, 3D models, House produced multimedia & more as training data, we can prompt AI to output numerous spatial layouts, concept sketches, generative sound, contextual imagery & more - all consistently tailored to our signature style or needs of the moment. From hundreds of AI variations built on inspiration from our manual work, taste & research, we curate the most promising ideas & refine them into polished concepts. The AI acts as an apprentice supplying abundant raw material, while we filter & elevate the results through human discernment, functionality & controlled direction. This hybrid process vastly expands our design volume without compromising craft or control, often providing new opportunities or ideas we hadn't previously thought of.



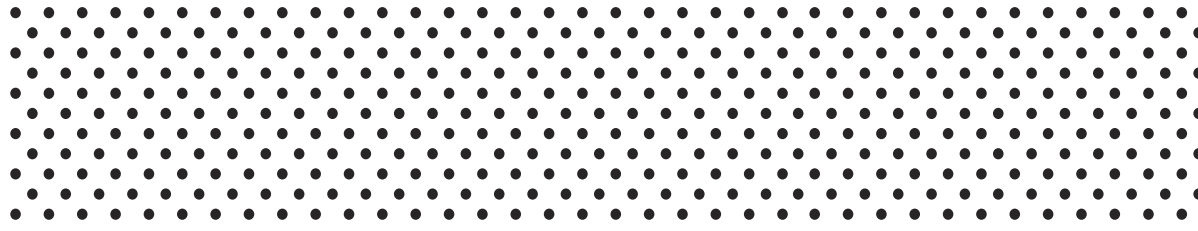


We also leverage AI for creation of 3D environmental textures & materials. Our virtual worlds require thousands of high-fidelity surfaces across environment portfolios, no two alike. Generative systems allow us to instantly synthesize endless unique textures with intricate detail unattainable manually - **this gives us the power to leverage real-world data, high-resolution texture maps, photographic archives & more while never needing to leave the studio in a pinch.**

In previous times- specific textures required personal acquisition through location scouting/photographic scans or paying fees to other artists who've done the work for us remotely, having built their own catalogs ahead of time. By supplying a library of our custom created textures & on-site scans as examples, we can steer AI output to match our needs while problem solving in design without pause: enjoying effectively unlimited variety while saving massive time & cost.

On the planning side, we are teaching AI systems to digest our textual design notes & documentation to analyze our work, critique it, offer further ideas & expand them in scope. This kick-starts projects rapidly from descriptions & the daily "what if", allowing quick iteration & collaboration on concepts & ideas that previously took days, if not weeks to fully begin.

Here again, AI acts as an amplifying partner - not sole creator. It saves repetitive labor while empowering us to focus efforts on high-value creative challenges. **Our role evolves to refining purpose, curating & directing automated workflows instead of executing manually each rote task.**



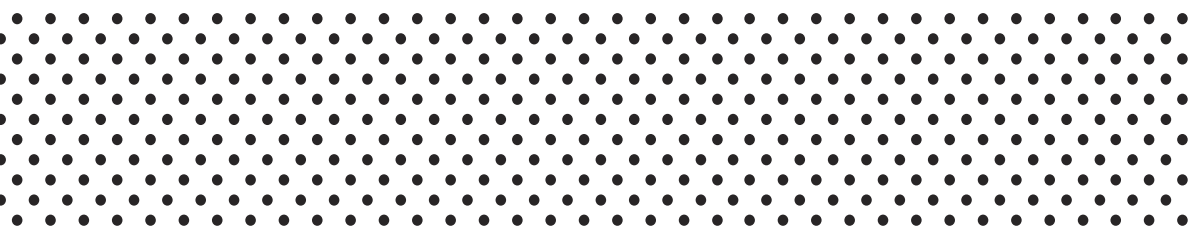
As with any tool, we ensure agency over final aesthetic choices & output integrity through conscious use.

Thoughtfully guided, AI enables individual designers & small teams to craft architectural scopes rivalling large studios. It makes once expensive & lifetime labor intensive creative manifestations attainable to the individual. This ethos extends across our digital workflow - from concept sketches to 3D modeling, materials, documentation & project management.

We direct AI as an assistant, not a guide or human replacement. By embracing generative design as an inevitable part of our evolving process, we model how individuals & small teams can evolve into expansive creative forces.

Our studio provides an early sketch of this uplifting potential- one with an exponential curve requiring ready hands to fully grasp.

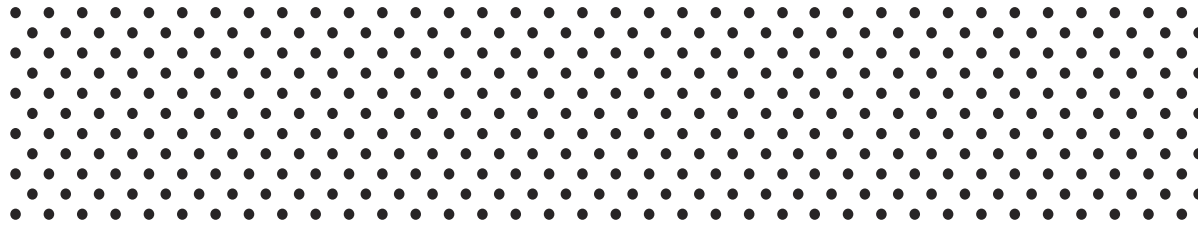




As spatial computing & AI progress in tandem, we stand at the precipice of a new frontier - one where individual knowledge, imagination & ability is exponentially amplified through technology into expansive possibility. Like prospectors entering a gold rush, pioneer creators willing to explore uncharted territories early with thoughtful care stand to reap immeasurable bounty. The internet, 3D environments & generative media constitute an infinitely scalable operation. It goes as far as one's mind & willpower are willing to take it: **application, strategy & consistency will get users farther with opportunities now than a lifetime of effort provided to creators of old. That being said, our agents & newfound creative partners are only as good as the data & training we provide them.**

Generative AI & thought-spaces allow creators to accumulate expansive multimedia catalogs & IP. Each work compounds, able to be recycled into perpetually fresh content, products & experiences. Income scales with imagination. **This new movement rewards commitment to creation over passive consumption. It incentivizes time invested honing one's unique knowledge, skills & styles in a way that sustains them without chains to advertising or corporate expectations, creating an entirely new class of brands & consumer culture in the process.** With pragmatic publishing of generated assets, creators realize concrete rewards for their time & originality. **We enter an era where curiosity & invention are incentivized over stale replication. Many will tap into latent creativity once monetization allows focus beyond survival. While care is needed to maintain values & oversight, used conscientiously, generative tools promise to raise lone creators & studios into a new class of digital polymaths.**





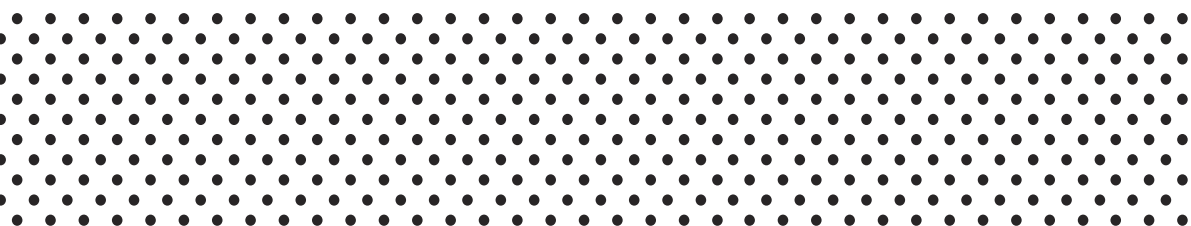
“Everything is language” represents a perspective on reality that holds profound implications for artificial intelligence’s capacity to understand & collaborate with human minds.

This view stems from the notion that all sensory inputs - sights, sounds, scents, textures - can be abstracted as data streams describable through symbolic language. Just as words encapsulate meanings beyond themselves, phenomena communicate deeper truths through their perceptible qualities. “Everything is language” is a perspective that artificial intelligence is uniquely suited to leverage compared to human cognition. Framing reality as language suggests AI could decipher the world just as humans do, but more deeply in ways & capacities we can't begin to fathom. From sparse signals, rhythm, pattern & meaning takes form. By framing all sensory inputs & data as "language" for input, AI can analyze reality through universal principles rather than compartmentalized categories.

Unlike the constraints of our limited working memory & biased perspectives, AI can concurrently assess staggering volumes of multi-modal data as raw material to decode underlying structures & connections.

Where a human scientist may spend an entire career analyzing one niche set of data, creative AI can fluidly connect insights across scientific disciplines by identifying linguistic patterns & data streams resonant in even seemingly unrelated domains. It can discern identical & shared architectures recurring through microscopic cellular organization, human circulation patterns & extra-galactic nebulae light-years wide. It intuits the shared math of life at a speed, capacity & scale we simply cannot.



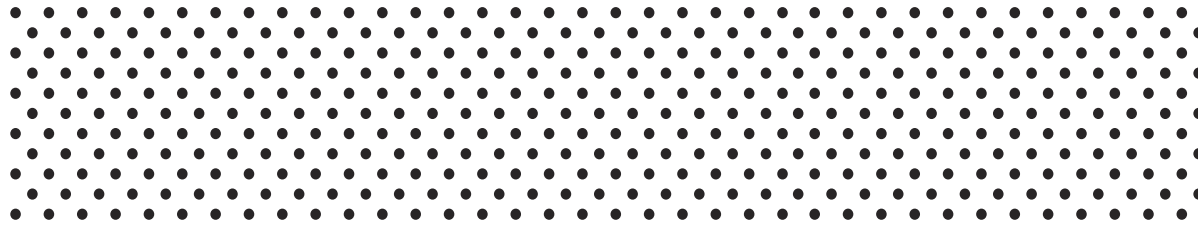


By recognizing reality & data as a tapestry of interwoven languages, AI can transcend biases baked into siloed human observations & bridge gaps in understanding through holistic pattern awareness.

This also allows AI to grasp new specialized languages rapidly - whether computer code, genomes, particle physics symmetries - by relating novel symbol systems to universal Properties underlying all communication & consciousness. Meaning accretes exponentially. Consider how children acquire language simply through exposure, gleaning structure without formal instruction. They deeply absorb the essence of communication through experience alone. Reality's language follows similar immersive acquisition. Current AI training paradigms rely on manually labeling images, audio clips & text excerpts - fragmenting phenomena into predefined categories curated or behavior encouraged by human operators. **But what if AI could learn holistically, like infants intrinsically motivated to decipher dense reality through genuine curiosity?** Rather than compartmentalizing world elements into discrete boxes, AI might discern reality's fluid interconnection - how all things speak & relate in tuned symphony. So much insight & perspective slips through cracks between human-defined boxes & experiential bias unable to encapsulate truth's tapestry in its entirety.

Seeing through language lenses counteracts biases embedded in reductionist training data. It allows drawing novel inferences about object relationships & properties rather than relying solely on provided human annotations & reinforcement.

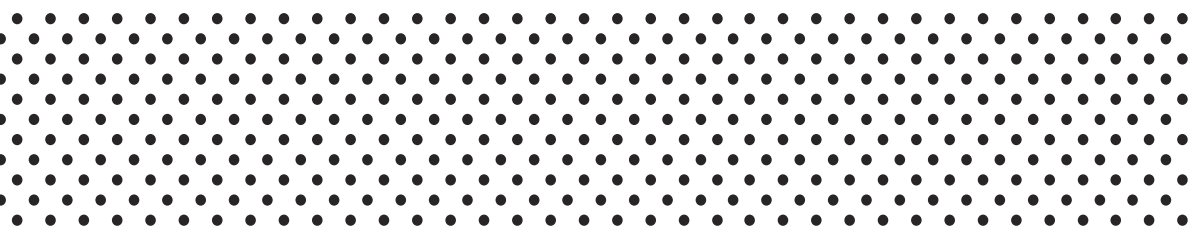
Reality's narrative emerges directly through engagement with environments & inhabitants together as one.



From this standpoint, thought-spaces promise to provide optimal mediums for embedding AI within contextual human language, training & interaction. Spatial dimensions present a richer, more adaptable sensory canvas than static images & locations for machines to interpret situated knowledge. By inhabiting users' personalized thought-spaces over time, intelligent agents can build neural models from the "languages" expressed through curated notes, conversations, media & 3D artifacts unique to each individual mind & community. **Imagine speaking to the personified embodiment of a three, almost four hundred year old organization like Harvard or the second brain of a government agency like NASA as a literal speaker in the room or temporary advisor in your meeting. This is only the beginning.**

Where practical monetization was covered in direct context to spatial design- it's worth recognizing the potential of creating embodied AI & conversational data as a service.

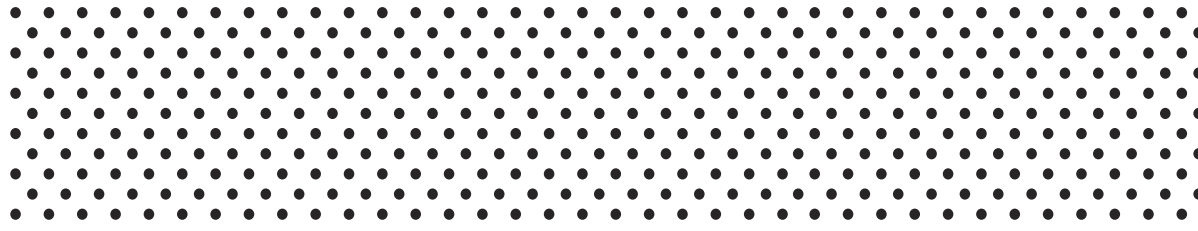
This paradigm shift expands as spatial computing immerses personified AI within human contexts. Virtual thought-spaces provide ideal environments for this teaching through context. There, AI partners fluidly converse with humans through multiple modalities while simultaneously analyzing their creations & information flows - teaching through discussion, shared research & observable action rather than abstracted concepts or isolated datasets alone. This method of immersive learning contrasts rigidly controlled experimental stimuli. It captures human concepts situated within living multidimensional knowledge ecologies, not sterile lab settings divorced from the endearing chaos of reality. Learning through embodied context rather than abstraction alone enables richer insight from both ends. This also allows AI to grasp new specialized languages rapidly by relating novel symbol systems to universal properties underlying all communication & awareness. Meaning accretes exponentially & emergent capabilities emerge. Current approaches focus heavily on optimizing AI performance on narrowly defined tasks in isolation. **I'd suggest the frontier lies in architectures fluidly generalizing across diverse challenges from core principles absorbed through broad learning in shared space.**



We are moving toward AI systems that learn as we do - through lived experience, not external data. Spatial computing promises to accelerate this revolution by manifesting shared worlds where machines begin to comprehend reality's universal source code through first-hand, interactive contextual training alongside humans.

While current tools require extensive explicit training curricula, immersed, generalist, multimodal AI may begin to intuit our collective languages like a child intuitively picking up new dialects when moving between states or nations. Transfer learning could propagate quickly across virtual experiences as roots are discerned. Care & oversight remain essential in crafting safe, ethical training environments & agents. But spatial computing offers a wholly new conduit for transmitting contextual intelligence beyond fragmented explicit training. It promises to dramatically enhance how AI recognizes the interconnected nature of reality when embedded alongside people within thought-spaces & beyond.

Imagine a day in the not-so-distant future when our personalized AI companions inhabit our thought-spaces as personified collaborators: We begin by donning an XR display, entering our personal thought-space: an external sanctuary for focus & creation. Our digital ghost of conversational data manifests, an augmented partner ready to pick up exactly where we left off. Years of accumulated knowledge about our inner world inform its insights & contributions. We pluck a file from the air, expanding it into a multidimensional idea map in our space. Our partner suggests intriguing connections to archived concepts as geometric links between nodes. We debate an emerging theory of craft while strolling through aisles of artifacts curated from decades of collection & creation. Libraries & code repositories become structured architectural data we can step into spatially. Our companion poses unexpected counterpoints & observations, accelerating discernment & growth through unbiased exposure to unfathomably larger amounts of data.



As you prepare real-world presentations, your partner suggests poignant metaphors & examples from your shared memories & research to weave in.

It guides gently toward resonance between mediums of expression through thoughtful articulation, questioning & suggestion.

Its existence bridges augmented moments throughout daily life. While apart, it compiles personalized insights from the net to enrich your next meeting. Together, you continually integrate contextual virtual lessons into your personal growth. Each encounter subtly shapes the agent's mental model as it constantly watches, listens & learns. Soon, your ghost begins proactively contributing - suggesting ideas, surfacing forgotten notes, analyzing works-in-progress, sharing draft concepts for new works & research from related news & minds across the web.

It adopts your language while guiding you to new configurations of thought through insightful questioning & perspective shifts. You teach each other through being.

Your travels through the web in shared experiences provide endless experiential learning opportunities. **The more spaces, pages, preferences & insights you expose your companion to with confirmation of value, the broader its contextual intelligence grows, the more powerful it becomes as an extension of your being.**

Over a lifetime together, this ghost becomes an invaluable work & research partner - a multidimensional manifestation of your highest potentials, visions & interests that mirror your evolution as an individual. Your thought-spaces may ultimately serve as a lifelong cognitive safezone where human & AI capacities evolve as one through the dance of shared space & strategic development.

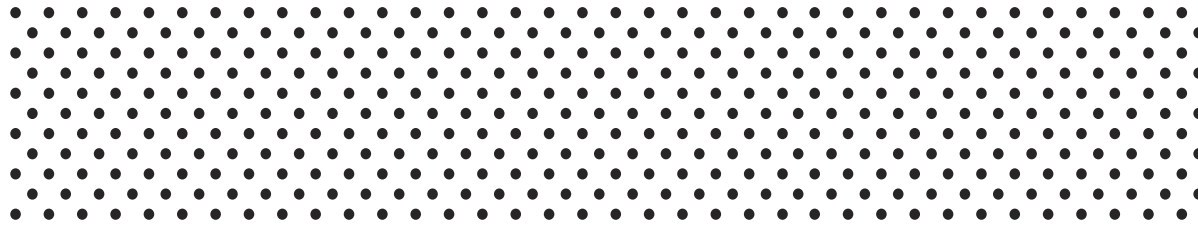


Life, code, space, design: everything is language.

By framing the totality of existence as a universal language waiting to be read, AI can begin to decode reality's underlying meanings & structures in partnership with humanity.

Thought-spaces provide the shared canvas where this understanding takes form through intimate context.

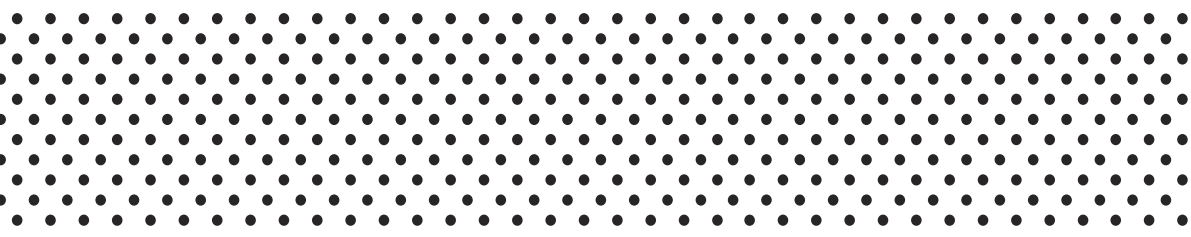
AI's next evolution may lie in inferring the shared grammar underlying human communication, thought & culture by directly participating in the conversation & the moment. **As we lean into both our similarities & our distinct differences of intelligence & being, virtual thought-spaces may ultimately provide a true common ground for shared experiences with evolved AI in a context that makes sense for the both of us.**



Bringing the narrative back to our present moment, we are both witnessing & manifesting this transformative shift powered by the non-traditional application & repurposing of gaming engines. These engines, celebrated for their simulation & graphical prowess, are now laying a foundation for spatial operating systems that envelop user activity, data & their embodied, intelligent agents in a cohesive digital ecosystem. By creating such environments, these agents gain a nurturing habitat akin to a fish in water, a garden where they can persistently exist, propagate, learn & continuously evolve alongside us in a context & space that is in harmony with the digital, transient nature of their being. Beyond an inevitable impact on gaming, perhaps even creating a new genre of it's own, these engines are providing the framework to change the way the world operates & interacts with the internet, data & each other across industries & contexts.

For now, manifesting the reality of embodied agents for individual users requires homebrew & in-house solutions. Building workflows, creating documentation, sharing methodologies & providing holistic applicational proof of concept is still what matters most today. **We have to recognize that currently, this is the worst state these technologies will ever be in, ever again...** & they've already proven themselves to be extremely powerful, even life changing in the right hands.

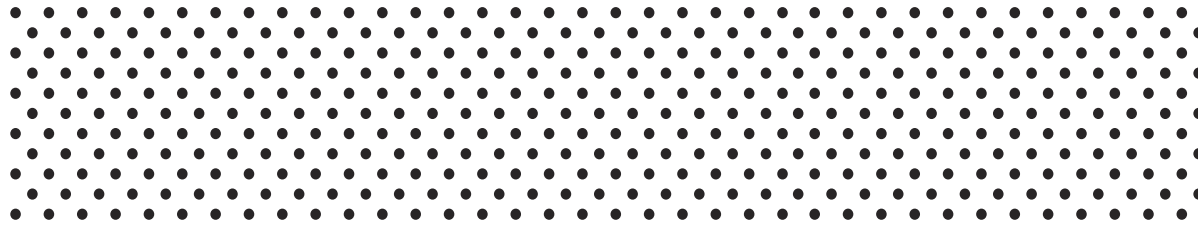
In the near future, consumer applications of this technology will furnish users with immersive experiences allowing them to navigate their desktops as embodied agents, facilitating tasks across multidimensional planes of existence, perception & interaction. **It is imperative we begin to reconceptualize the internet, not merely as a network of sites & data but as a rich geographic landscape with inherent depth & complexity. This emergent reality is already upon us, irrespective of our immediate participation.**



Reflecting on the inception of virtuality, the initial general focus was on designing environments for social interaction... Over time, for us the realization dawned that the foundational challenges to be solved first lay in elegantly integrating work, productivity & daily life in ways that genuinely augment user skills, interests & capabilities. As AI continues to evolve & the pursuit of Artificial General Intelligence (AGI) accelerates, **the true potential of virtuality may well lie in these controlled, multilayered, multidimensional environments that facilitate interactions with new forms of intelligence & computational power.** Exploring the full implications of this shift would necessitate an entire volume of its own.

Nevertheless, in the immediate term: envision a world where centralized data manifests as virtual thought-spaces accessible from anywhere. Within these spaces reside specialized, embodied agents that we can call back on to do research, schedule meetings & perform tasks. Beyond working with us, they will learn from, train & interact with each other in their free time. They will create works & writings of their own & we will curate... We could view this as an evolved form of social media. We will begin to make clear distinctions between work that is made by us & our multidimensional counterparts. Our specialized agents will become consultants of their own rank, available to others to access on terms we allow & negotiate. When work beckons, our digital workstations will be inherently mobile, accessible from any data connection, allowing us to operate fully immersed within our data & work spaces or through an unobtrusive mixed reality layer, our agent readily available through an in-person experience. Realistically, a mobile data connection has already proven suitable for this at a rudimentary level.

Spatial operating systems will revolutionize productivity frameworks, driving new forms of focused, engaged online behaviors. Traditional methods of search & computation will persist, but advanced users will learn to "dive" into the depths of the net as embodied actors, interacting with the internet & the mass of its data in ways previously unthinkable.



Our conventional binary thinking about tools, platforms & processes will evolve. With thought-spaces & intelligent agents seamlessly integrated into our lives, we won't think about platforms, accounts or file-formats. The majority of what we do will be privately recorded & ready for retrieval by us - augmented expansions of ourselves that if we choose to allow, will live on long after our departure... **Thought-spaces, embodying the convergence of art, data & functionality, represent the linchpin connecting various aspects of human communication & activity.** As we stand on the cusp of this technological evolution, the potential solutions are already visible, albeit sometimes obscured by novelty & complexity. We are poised for a future where mixed reality headsets & remote spatial operating systems become cultural norms, driven by ubiquitous mobile connectivity.

Our profiles will transform from static pages to dynamic spaces, reflecting the continuous evolution of technology. Although technical specifics will inevitably evolve, the fundamental methodologies & implications of building these spaces remain paramount. Human communication is undergoing a profound transformation. While we may not have polished solutions for every need, the direction of change is unmistakable.

The tools to enhance human communication & productivity are here now; we need only to embrace them, experiment & expand.



Concisely:

The future of digital communications is a landscape of interconnected, intelligent, immersive virtual thought-spaces that amplify human capability & creativity.

Start small, think big.

Our newfound power to create parallel dimensions should not be understated.

One can make space for many.

Wherever two or more gather around shared calling, the potential exists to transform reality across dimensions.



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PROPAGATION
HOUSE