PORTFOLIO XU ZIQIAN

SELECTED WORKS 2024 - 2025

CONTENT

	01	"EXPANE Research of (Ir
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(PANDED" VISION

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PER SONIC: TEXAS LISTENING

Thought Experiment

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EB DESIGN

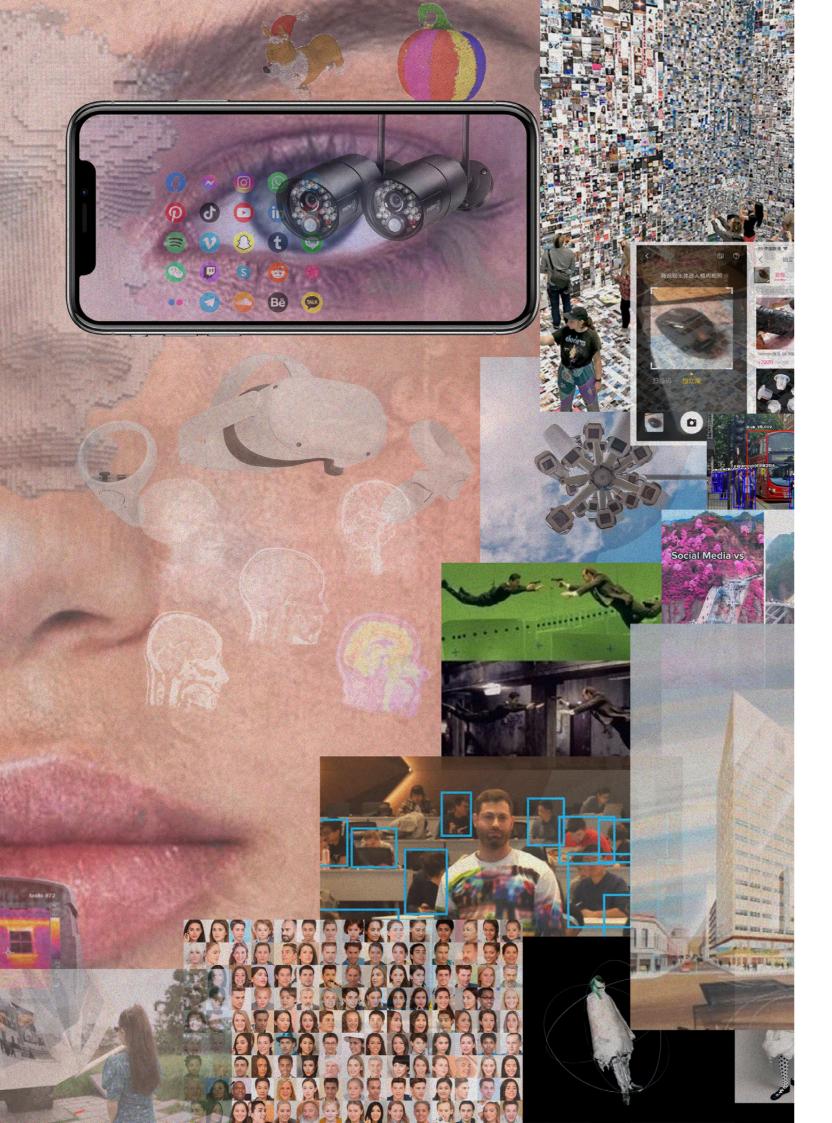
ling for Spacial Practices

CAPE FROM DREAM

al Architecture

E BUILT WORLD

itectural Photography



01 "Expanded" Vision

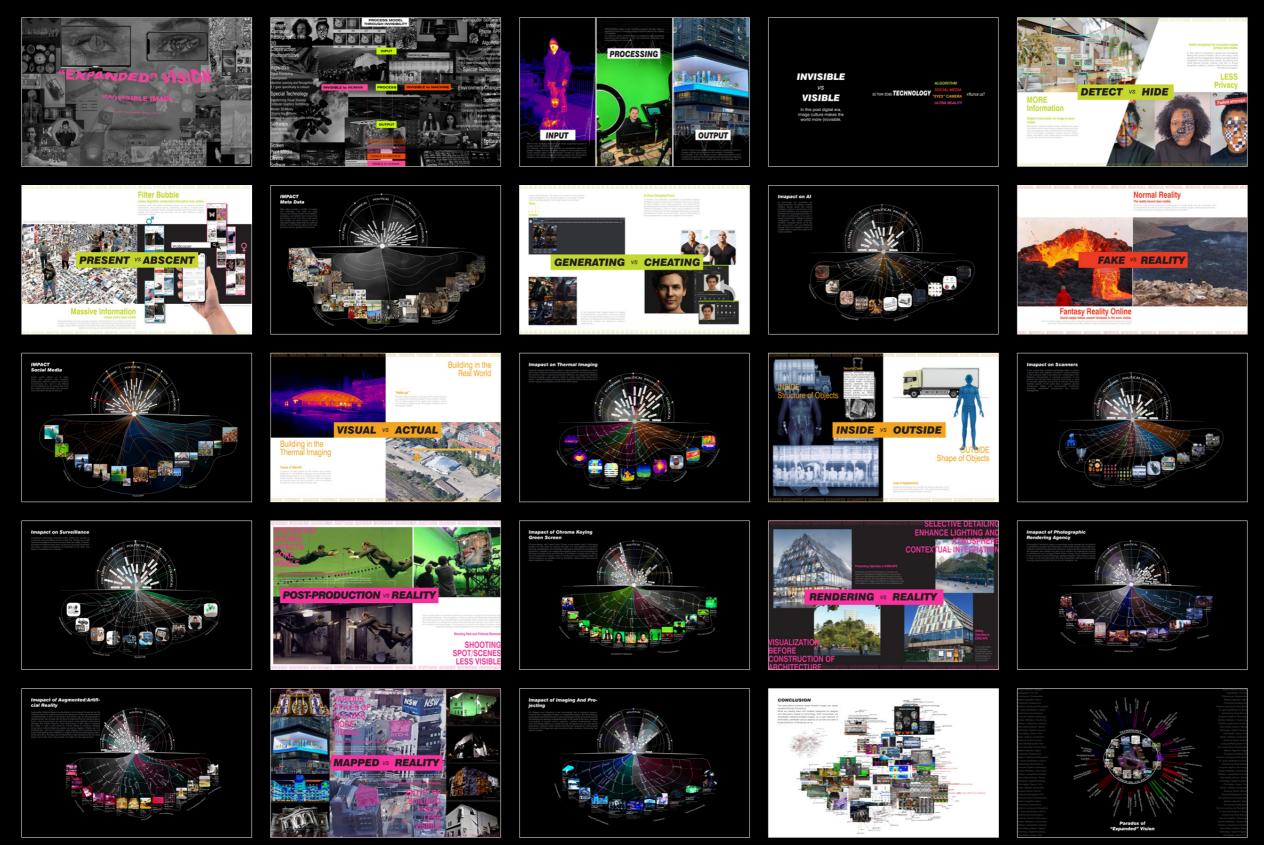
Research of (In)visible Images

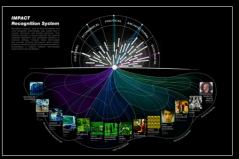
Site: N/A Group Work Partner: Yuewen Jing, Jieyu Yang Summer 2024, Adv Arch Design Studio Instructor: Michiel Helbig, Corneel Cannaerts

The amount of images produced each year is increasing exponentially, this is partly due to the increased accessibility of cameras and smartphones and social media and image sharing platforms. Additionally there is a rapid increase in images that are not meant for humans to look at but are part of machinic operations, ranging from computer vision, to surveillance technologies, to the vast datasets used in machine learning and artificial intelligence. While these technologies lead to increased visibility our research indicates that the resulting post-digital media ecology paradoxically also leads to a decreased visibility. Our fieldguide explores this paradox, proposing an expanded vision that includes human and machines, exploring operational images in terms of input, process and output.

The project aims to display the interconnectedness of all of these spaces, screens and interfaces. Through consciously submitting to this voluntarily surveillance the project demonstrates that a seemingly straightforward situation - three architecture students working on a collective project - reveals a complex spatial reality, an ecology of interrelated media.

FIELDGUIDE





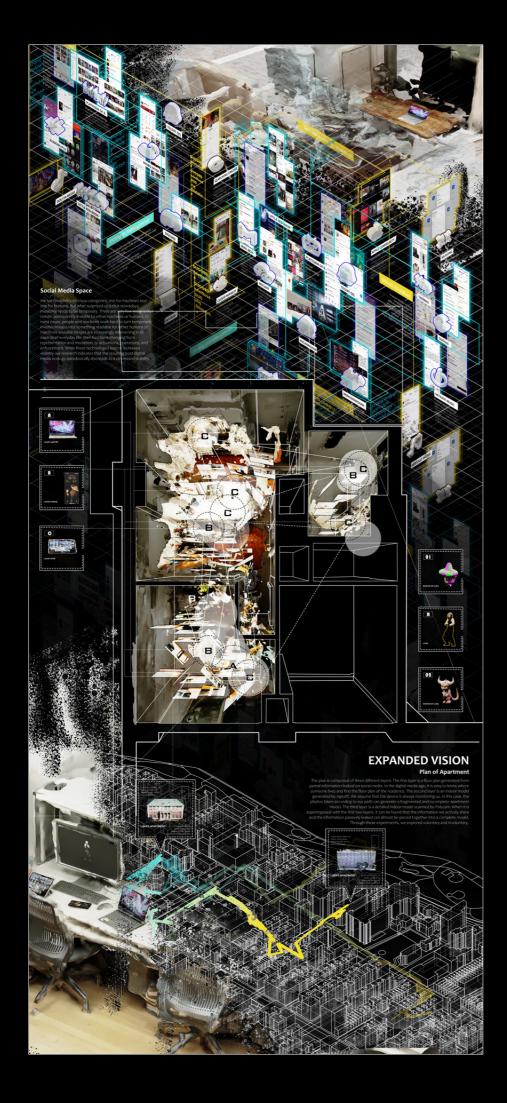


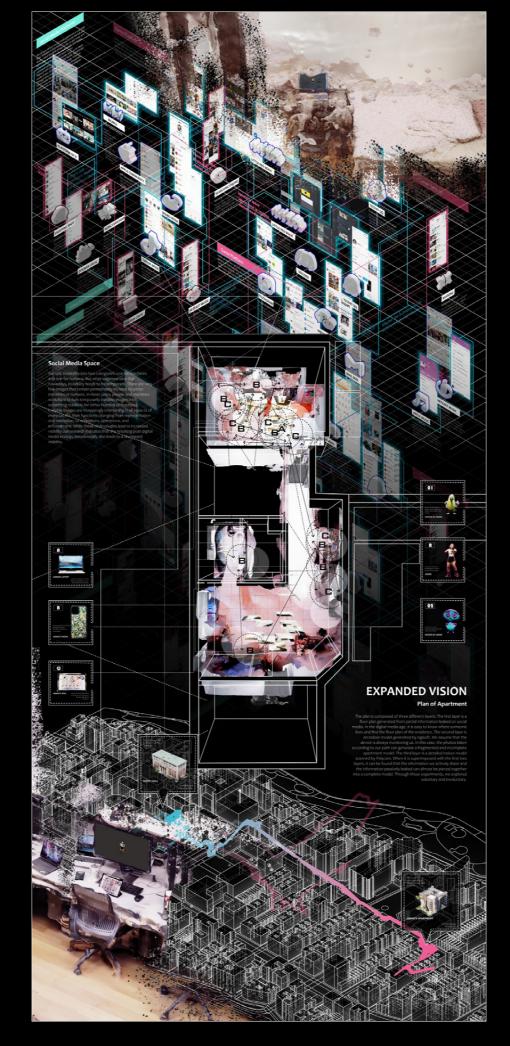


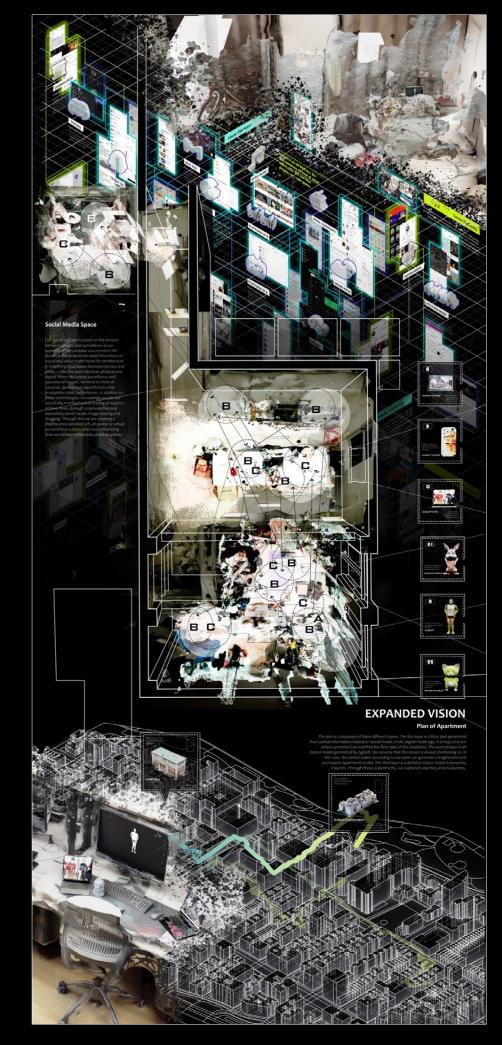


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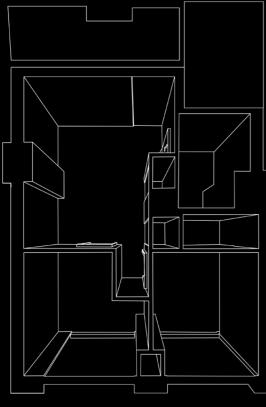
SOCIAL MEDIA ALGORITHM ULTRA REALITY "EYES" CAMERA







LAYERS OF PLAN



Wall

We can get a series of voluntary information on social media, which allows us to outline the general layout of the room.



Agisoft

We import the pictures and videos into Agisoft, which will identify our shooting location and path and then generate an incomplete apartment model.



Polycam

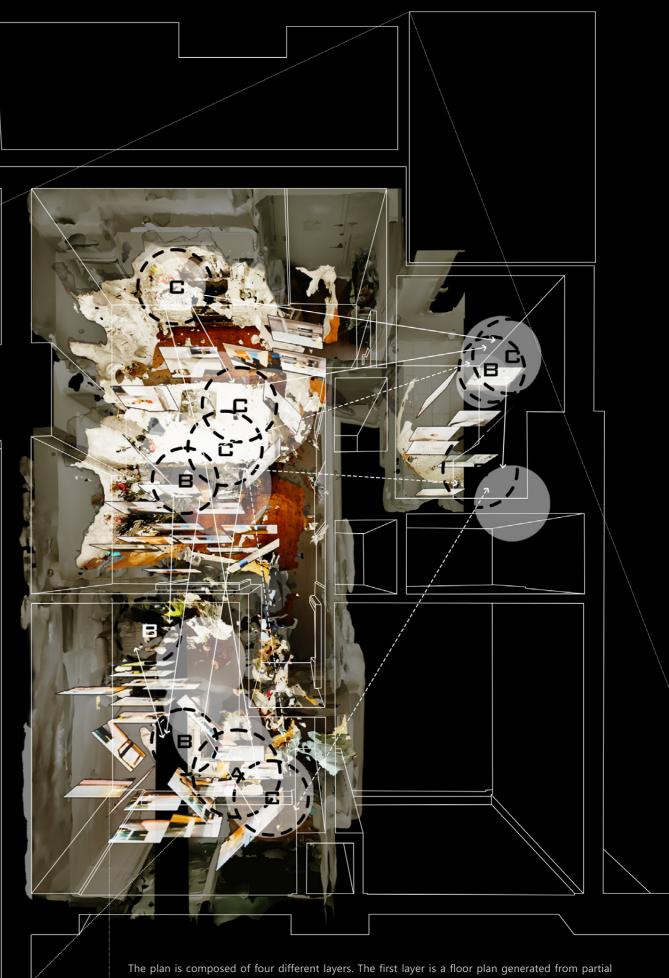
By scanning the entire room with Polycam, we can get a very complete model of the room.



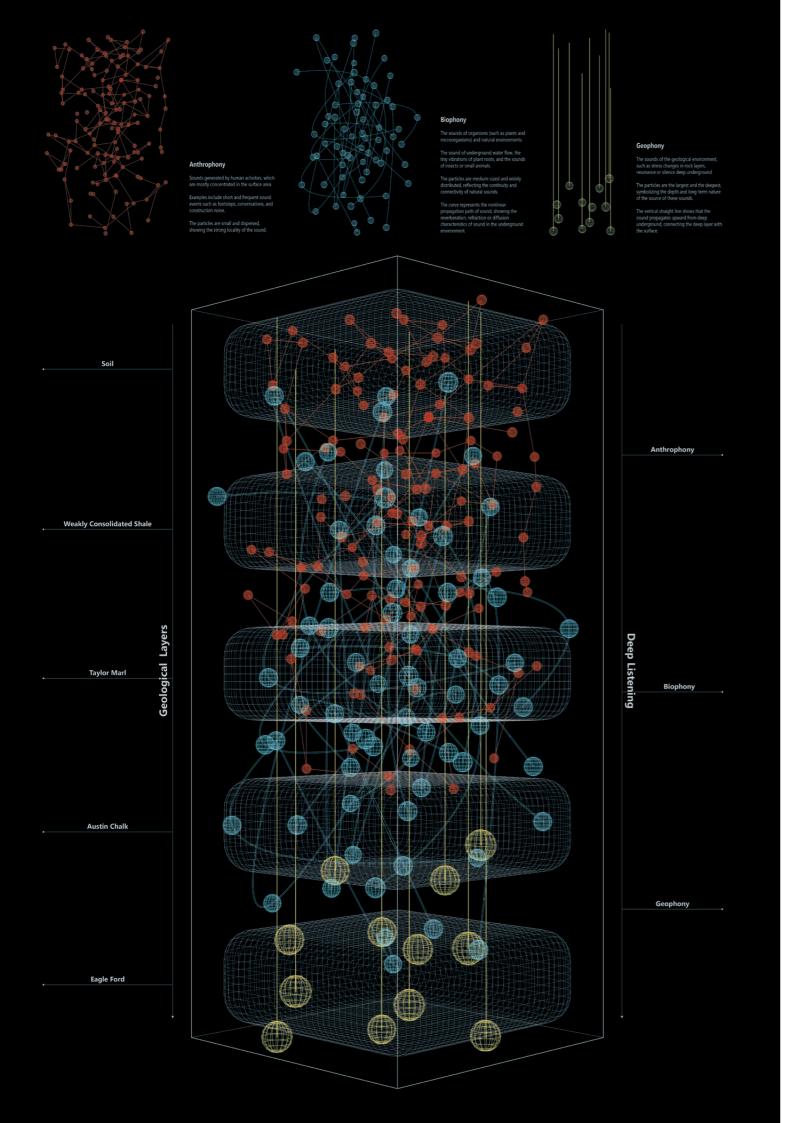


Pictures

our devices will also inadvertently provide some information, such as the room background captured by the laptop during zoom.



The plan is composed of four different layers. The first layer is a floor plan generated from partial information leaked on social media. In the digital media era, it is easy to know where someone lives and find the floor plan of the residence. The second layer is generated by Agisoft. We assume that the device is always monitoring us, so the photos taken according to our path can generate a fragmented and incomplete apartment model. The third layer is a detailed indoor model scanned by Polycam. When it is superimposed with the first two layers, it can be found that the information we actively share and the information passively leaked can almost be pieced together into a complete model.

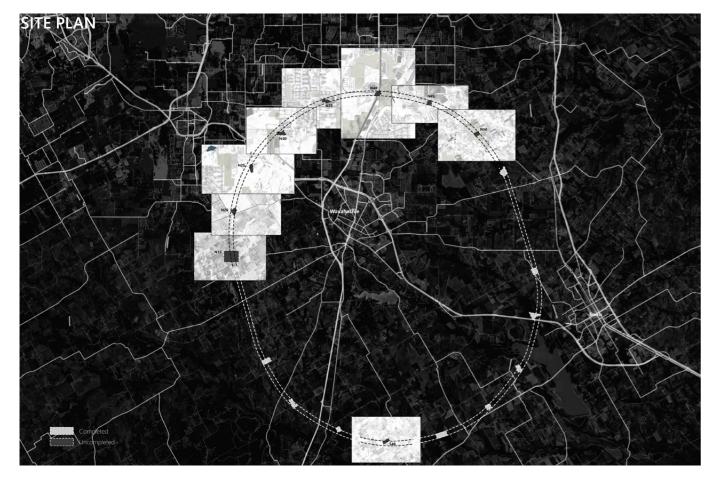


02 Super Sonic: Texas Listening SSC Thought Experiment

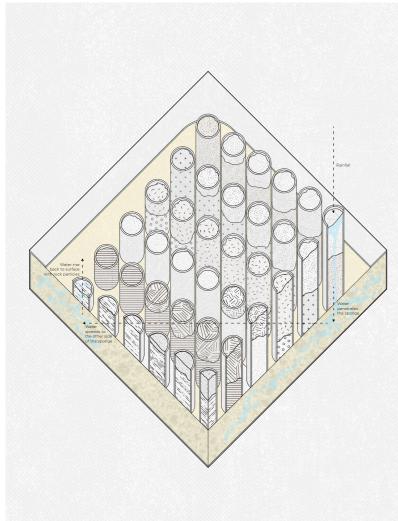
> Site: Texas, USA Group Work Partner: Haoyu Wu, Runhe Song Fall 2024, Adv Studio V Instructor: Lindy Roy

The Superconducting Super Collider (SSC), a monumental yet abandoned scientific endeavor of the industrial age, lies dormant beneath Texas. Its 17 shafts and 14.5-mile tunnel, once intended for particle physics, now stand as relics of human ambition—offering a unique acoustic and sensory infrastructure. This subterranean network, shaped by geophony, biophony, and anthropophony, becomes a canvas for reimagining humanity's relationship with sound, nature, and introspection.

Our project transforms SSC into a Deep Listening sanctuary, where visitors descend through dynamic microclimates to encounter amplified layers of Earth's soundscape. From lively sonic environments to meditative silence, the project harmonizes human interaction with geological and ecological rhythms. Through interactive junctions, immersive concerts, and reflective spaces, it invites a profound reconnection-to oneself, to others, and to the planet's often unheard voices.



PROTOTYPE



Step 1

Pour water into the soil layer tube to simulate rainwater infiltration into the soil.

Step 2

The water will flow through the tube into the sponge, and the sponge will slowly absorb the water.

Step 3

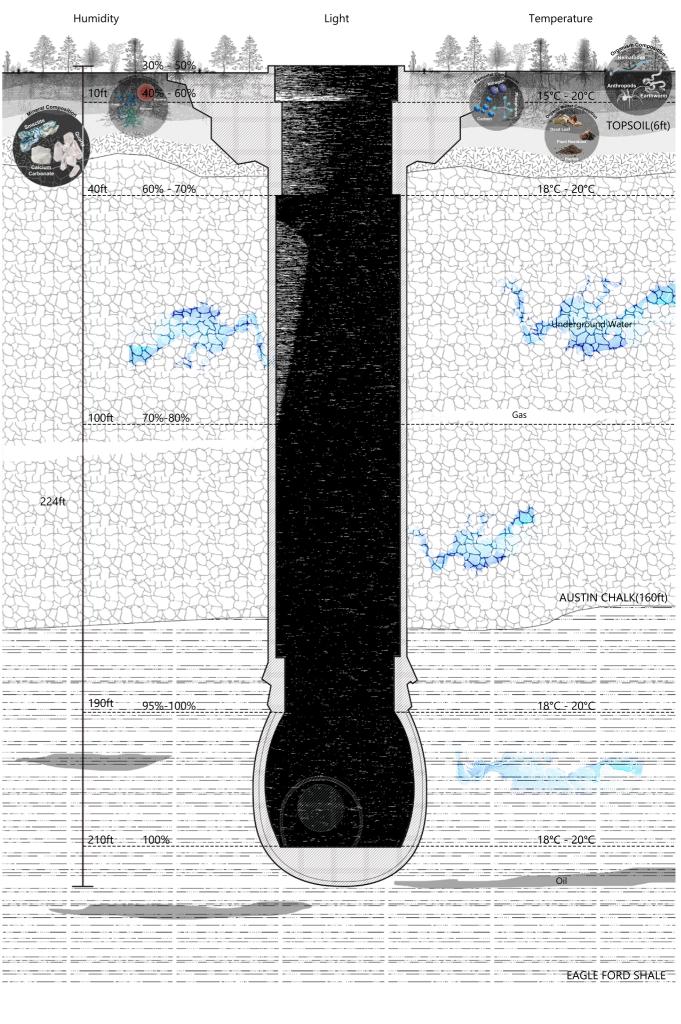
When the water content is sufficient, squeeze the sponge to let the water appear.

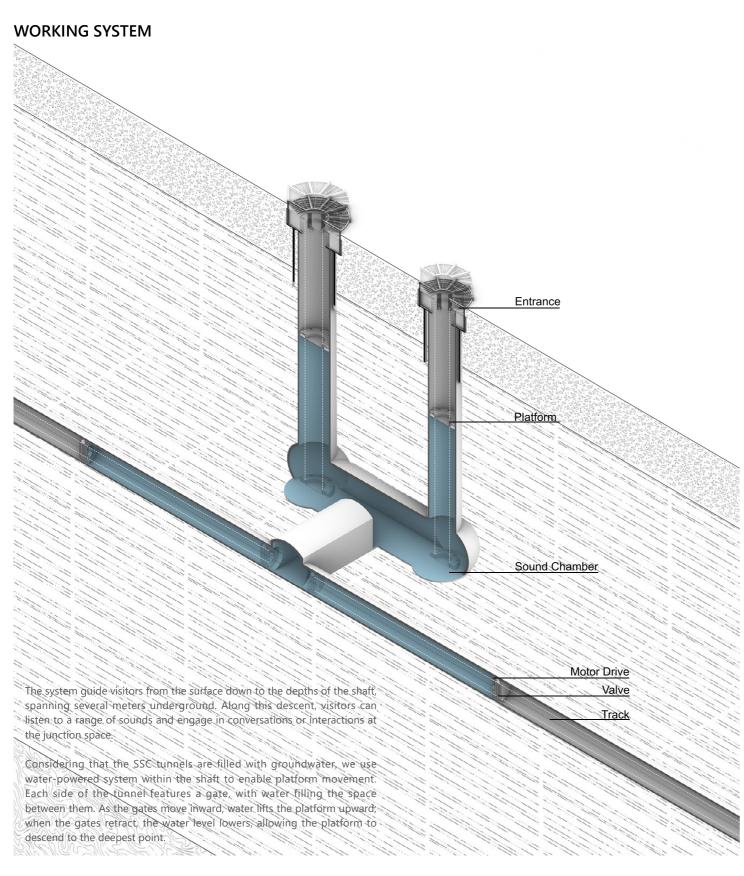
Step 4

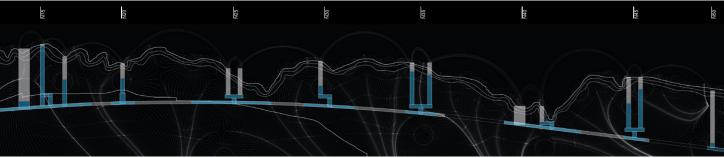
Observe the impact of water on different strata base on the color difference and simulate the impact of geological movements on aquifers.

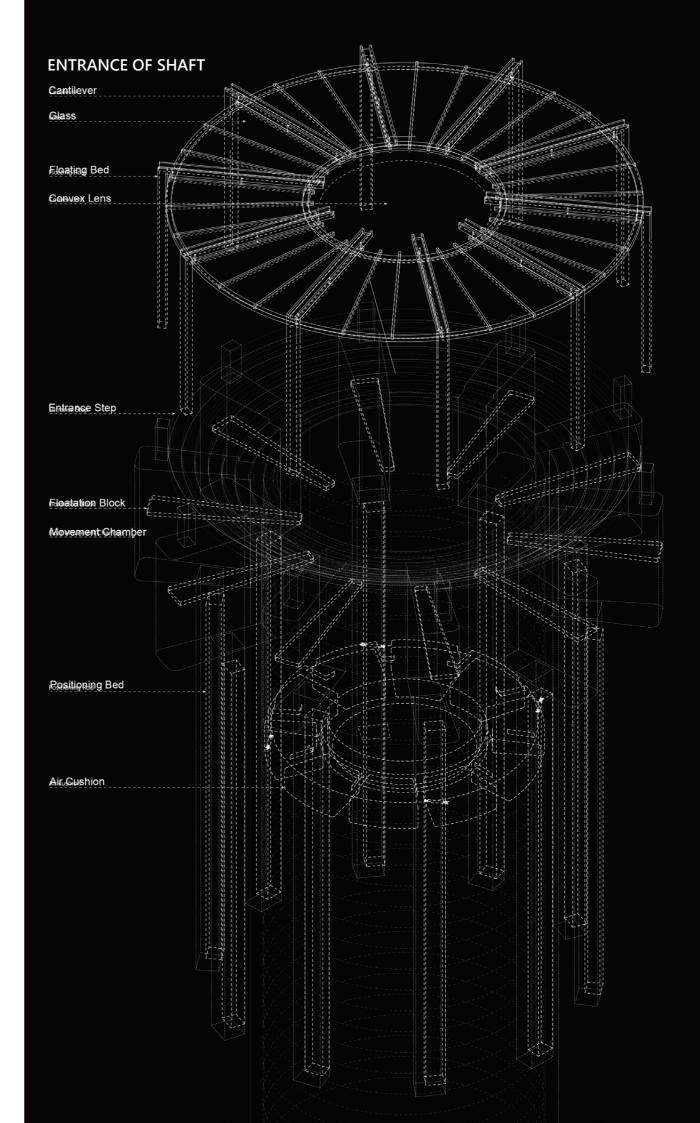


UNDERGROUND ENVIRONMENT

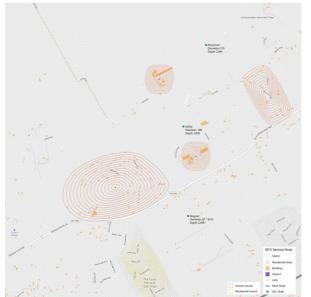




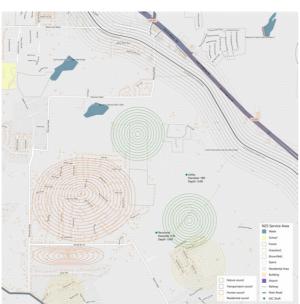




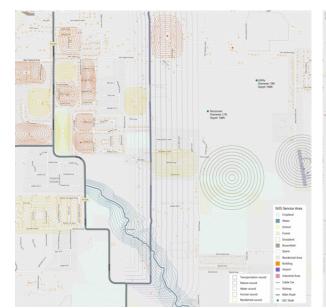
SOUND MAP



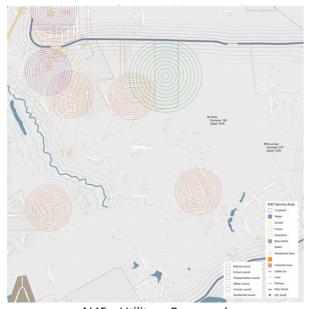
N15 - Utility + Magnet



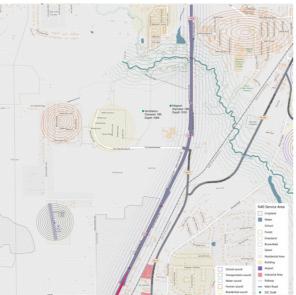
N25 - Utility + Personnel



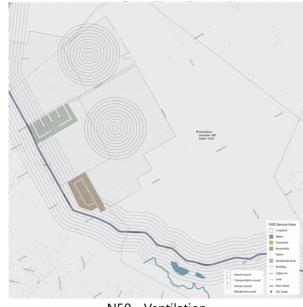
N35 - Utility + Personnel



N45 - Utility + Personnel

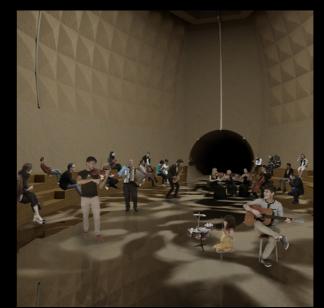


N40 - Ventilation + Magnet

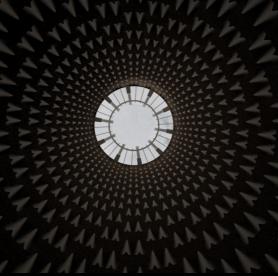


N50 - Ventilation

SOUND CHAMBER



N15 - Concert Chamber



N35 - Anechoic Chamber



N45 - Communication



N25 - Acoustic Chamber



N40 - Meditation Chamber



N50 - Water Chamber



Parque Recultivo

03

Transformation of Parque Móvil del Estado

Site: Madrid, Spain Group Work Partner: Haoyu Wu, Qian Chen Spring 2025, Adv Studio VI Instructor: Juan Herreros, Oscar Caballero

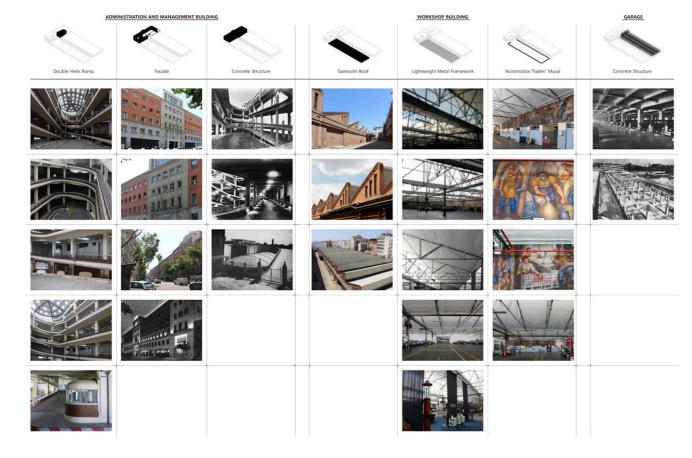
Once built to over serve 3,000 cars under the logic of control and circulation, the Parque Móvil del Estado stood as a monument to industrial order and the authoritarian state. Today, those same "bones" become the foundation for something radically different: an open, adaptive, and living environment. Instead of erasing the past, the project chooses to keep, remove, and add - preserving the structural integrity, removing barriers to light and air, and introducing new layers of agricultural production, housing, and communal life.

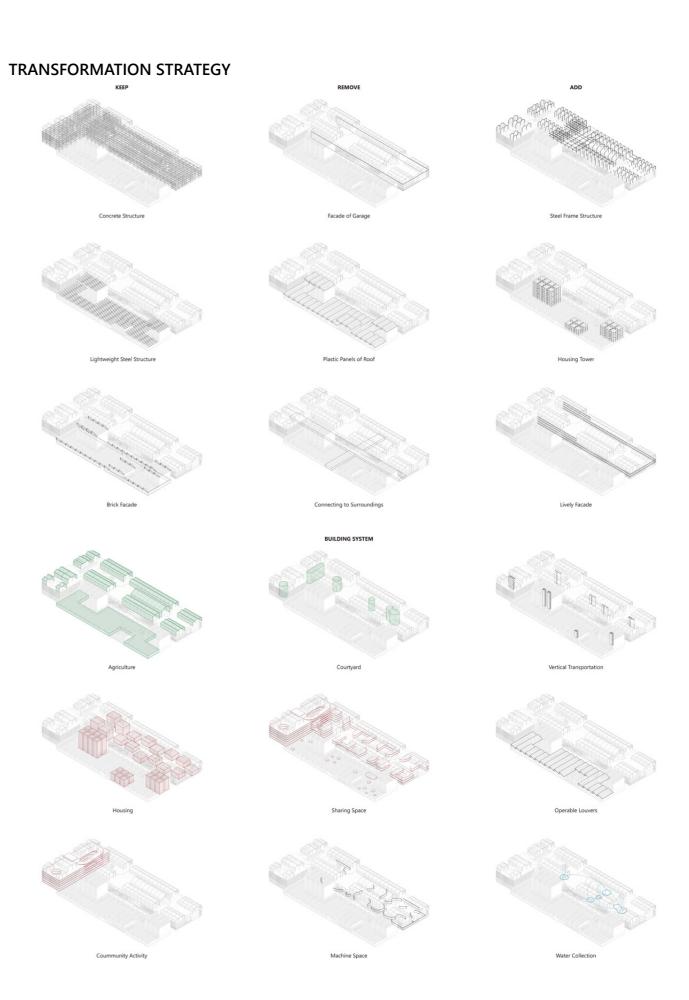
This is no longer a site of storage - it is a site of cultivation. A new ecosystem where food, people, and infrastructure coexist, where the industrial past becomes soil for ecological and social futures.

Parque Móvil is located in a dense urban environment, surrounded by residential buildings. It can be divided into three volumes. These three parts have completely different structures: the administration and management building features a massive double-helix ramp, the workshop has a lightweight steel framework, and the garage utilizes a traditional reinforced concrete structure.

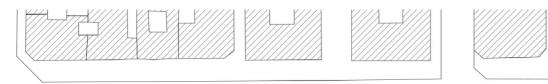
ORIGINAL BUILDING

12

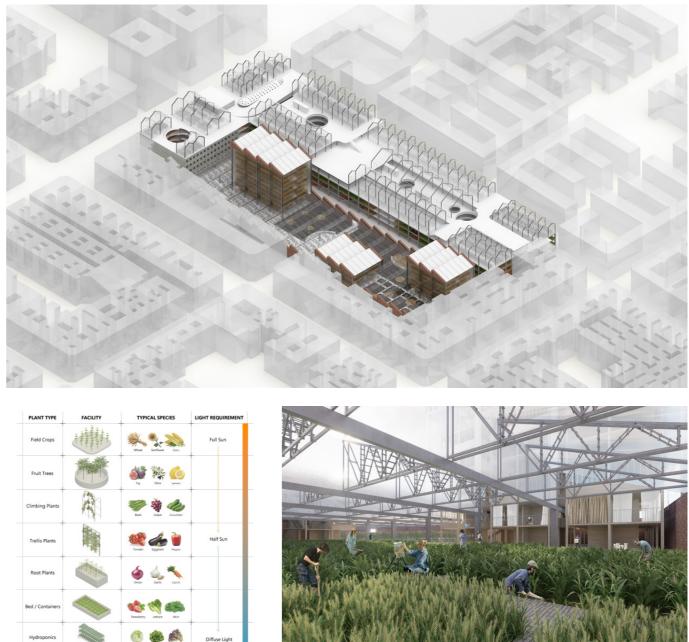


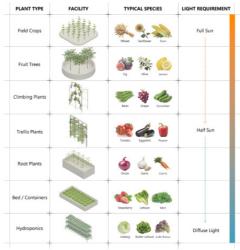


FIRST FLOOR PLAN





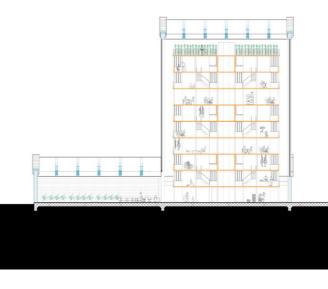






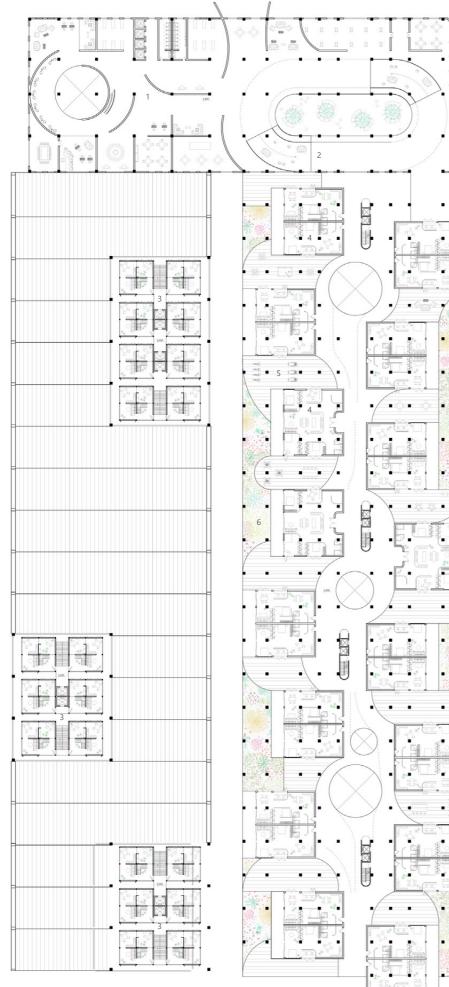
SECTION (WORKSHOP + GARAGE)



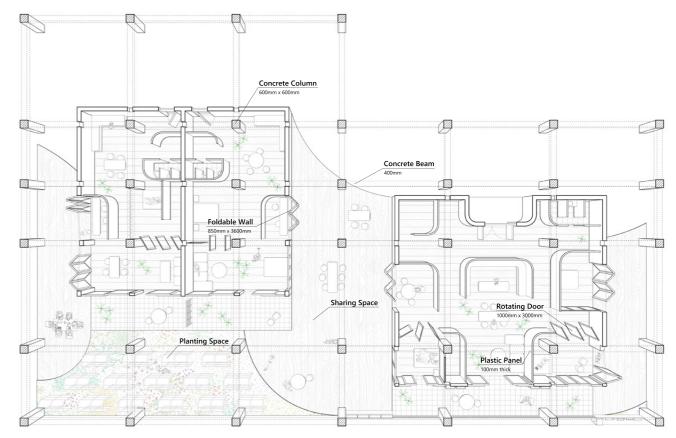


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SECOND FLOOR PLAN



UNIT OF GARAGE

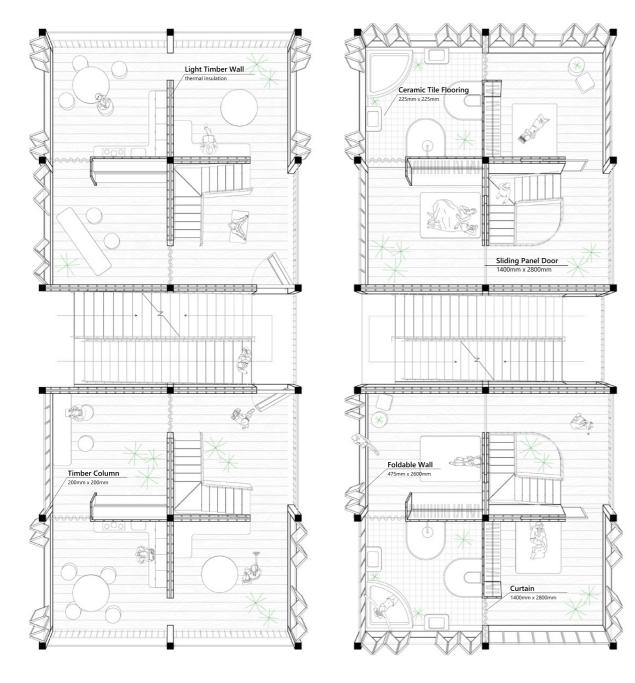




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Community Center
 Double-Helix Ramp
 Unit of Workshop
 Unit of Garage
 Shared Space
 Planting Space

UNIT OF WORKSHOP

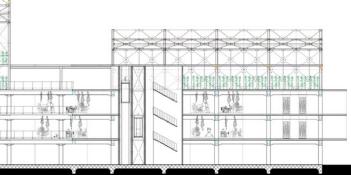


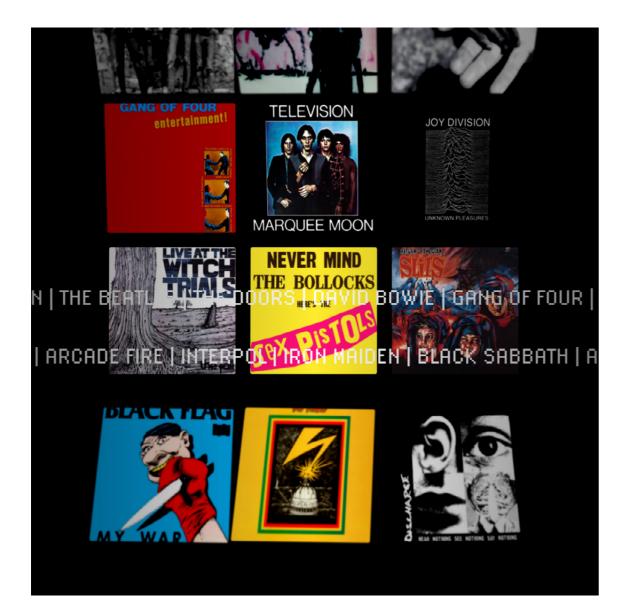


SECTION (ADMINISTRATION + GARAGE)

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The living units are added inside the original structure like a "building in building." Each unit has two floors and is built with simple columns and cross walls. Inside, the space is divided by curtains and many foldable windows to create a flexible and open living area. The units provide basic housing needs but also allow people to shape the space based on their lifestyle.



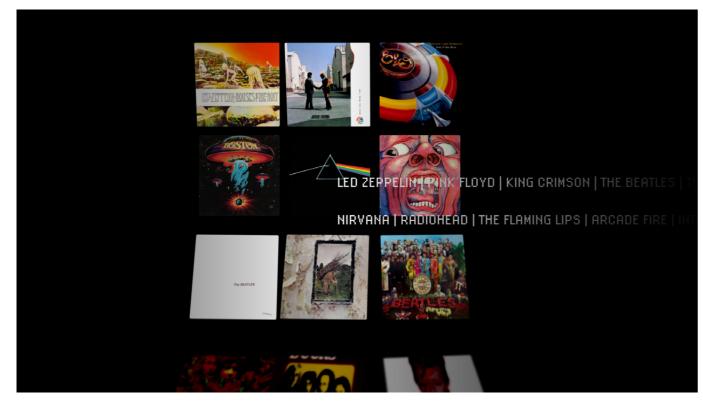


04 Web Design Coding For Spacial Practices

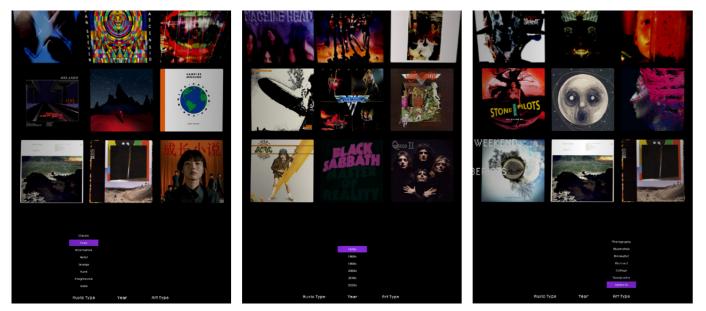
> Individual Work Fall 2024 Elective Course Instructor: Celeste Layne

100 ROCK ALBUM COVERS

Long before the digital age and the emergence of contemporary design disciplines, there existed a unique canvas that captivated millions of visual audiences: the album cover. Cover design is an essential part of a music album, with powerful cultural impact and truly global influence. It provides designers with a canvas through which they can express their creativity and originality to the world and is considered one of the most effective marketing tools.



CATEGORIES



ROOT HTML

1	KIDOCITYPE NUMI>
	<pre></pre>
	<meta charset="utf-8"/>
	<pre><meta author"="" content="Codrops" name="viewport"/></pre>
	<pre><link href="css/base.css" rel="stylesheet" stylesheet"="" type="text/css"/></pre>
	<pre><script>document.documentElement.className = "js";</script></pre>
	<pre><link href="./css/index.css" rel="stylesheet"/></pre>
	<body class="loading"></body>
	<main class="shadow"></main>
	<pre><a ?tag='scroll"</pre' class="frame_back" codrops="" demos="" frame_archive"="" framegithub"="" href="https://github.com/codrops/</pre></th></tr><tr><th></th><th></th></tr><tr><th></th><th></th></tr><tr><th></th><th><pre></th></tr><tr><th></th><th></th></tr><tr><th></th><th><pre></pre>
	#3d
	<pre>#</pre>
	<section></section>
	<pre><div class="grid"></div><!-- grid--></pre>
	<pre><div class="btnBox"></div></pre>
	<pre><div class="mask"></div></pre>
	<pre><button> <button> <button> <button> <button> <button> </button> </button></button></button></button></button></pre>
	<pre></pre>
44	

JAVA SCRIPT

1	// import { preloadimages } from ./utils.js ; // import utility fu
	<pre>const preloadImages = (selector = 'img') => {</pre>
	<pre>return new Promise((resolve) => {</pre>
	// The imagesLoaded library is used to ensure all images (inc
	<pre>imagesLoaded(document.querySelectorAll(selector), {background</pre>
	};
	<pre>gsap.registerPlugin(ScrollTrigger); // Register GSAP's ScrollTrigge</pre>
	<pre>gsap.registerPlugin(SplitText); // Register GSAP's SplitText pl</pre>
	<pre>const grid = document.querySelector('.grid'); // Select the contain</pre>
	<pre>const gridImages = grid.querySelectorAll('.grid_item-imgwrap'); //</pre>
	<pre>const marqueeInner = document.querySelector('.mark > .mark_inner')</pre>
	<pre>const textElement = document.querySelector('.text'); // Select the '</pre>
	<pre>var splitTextEl = new SplitText(textElement, {type: 'chars'}); // S</pre>
	<pre>const gridFull = document.querySelector('.gridfull'); // Select t</pre>
	<pre>const creditsTexts = document.querySelectorAll('.credits'); // Sele</pre>
	<pre>const isLeftSide = (element) => {</pre>
	<pre>const elementCenter = element.getBoundingClientRect().left + elem</pre>
	<pre>const viewportCenter = window.innerWidth / 2; // Calculate the ce</pre>
	<pre>return elementCenter < viewportCenter; // Return true if the elem</pre>
	};
	<pre>const animateScrollGrid = () => {</pre>
	<pre>gridImages.forEach(imageWrap => {</pre>
	<pre>const imgEl = imageWrap.querySelector('.grid_item-img'); // Se</pre>
	<pre>const leftSide = isLeftSide(imageWrap); // Check if the element</pre>
	// Create a GSAP timeline with ScrollTrigger for each grid item
	gsap.timeline({
	<pre>scrollTrigger: {</pre>
	trigger: imageWrap, // Trigger the animation
	<pre>start: 'top bottom+=10%', // Start when the top of</pre>
	end: 'bottom top-=25%', // End when the bottom of
	scrub: true, // Smooth scrub animation

=1">

>

/script> -->

<u>>=81462</u>">Article ;/demos :aggered3DGridAnimations["]>GitHub

imations</h1>

scroll

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> uding backgrounds) are fully loaded. true}, resolve);

er plugin lugin

ner that holds all grid items / Select all elements with the class '.grid__item-imgwrap'

; // Select the inner element of the marquee

text element Split the text into individual characters for animation

the full grid container

ect all elements with the class '.credits'

ight side of the viewport

ment.offsetWidth / 2; // Calculate the center of the element
enter of the viewport
mont's center is to the left of the viewport's center

of view

elect the image element inside the grid item t is on the left side of the viewport

m

when this element enters the viewport the element is 10% past the bottom of the viewport f the element is 25% past the top of the viewport n

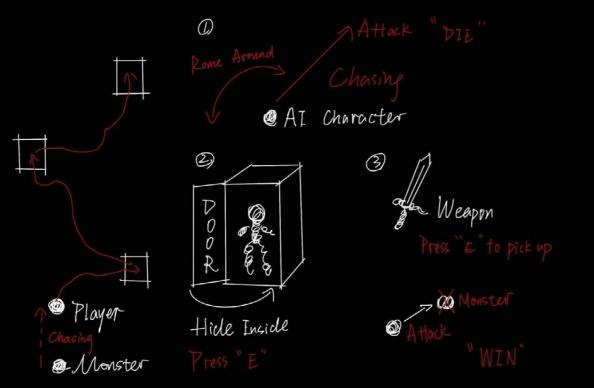


05 Escape From Dream

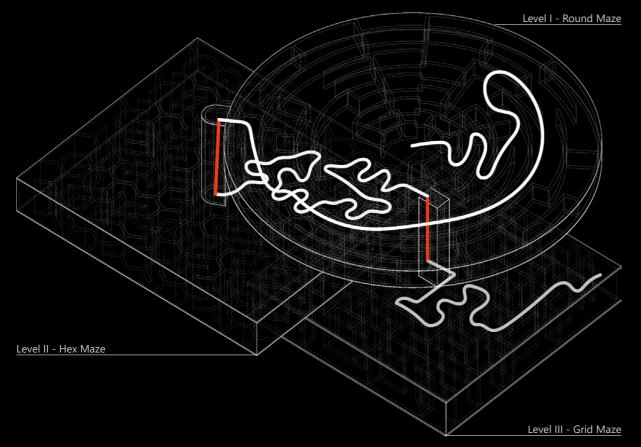
Group Work Partner: Haoyu Wu Spring 2025 Elective Course Instructor: Nitzan Bartov

Virtual Architecture

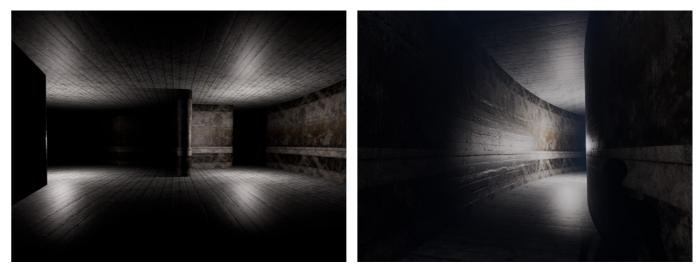
SKETCH PROPOSAL



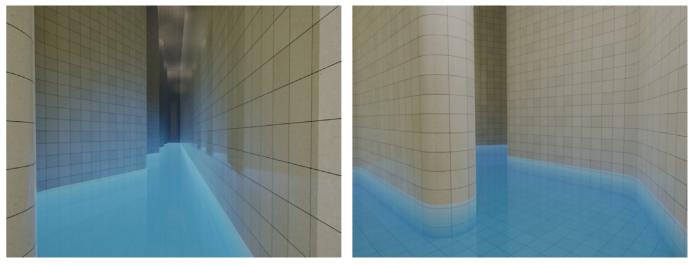
LEVEL DESIGN



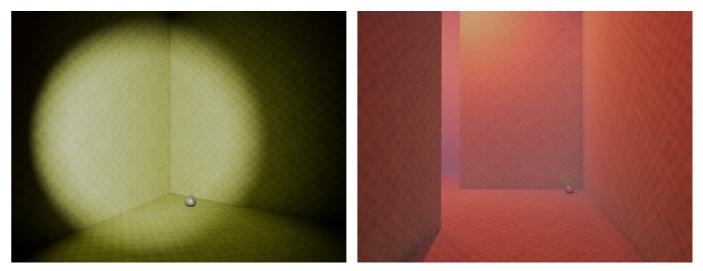
The first level presents a tense, horror-like atmosphere. Three AI enemies actively pursue the player, who must hide and carefully navigate to find the correct path to the next layer.



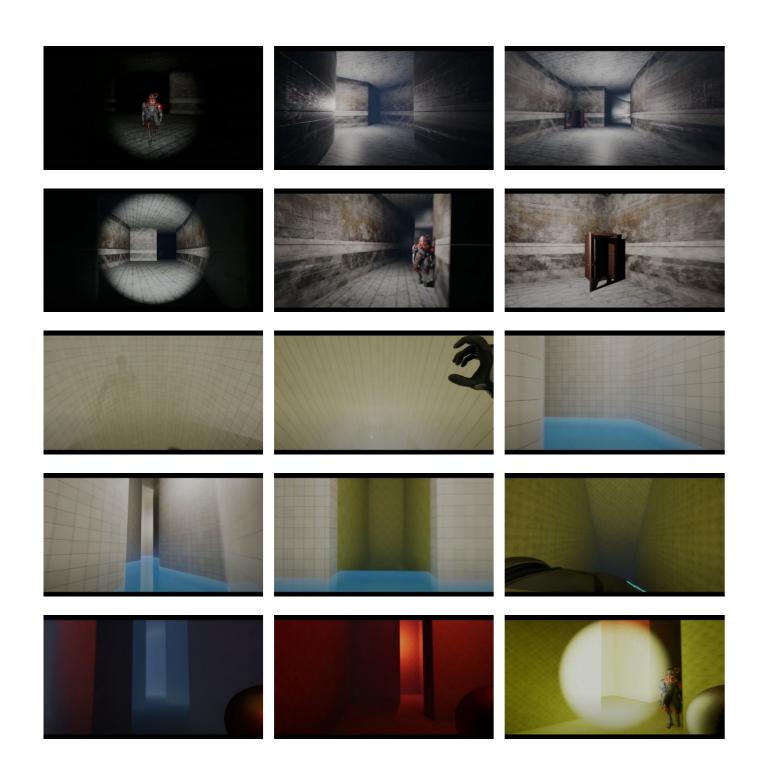
The second level is calm and introspective, reflecting a moment of self-exploration. There are no monsters here, and although the path is winding, it has no forks or dead ends.



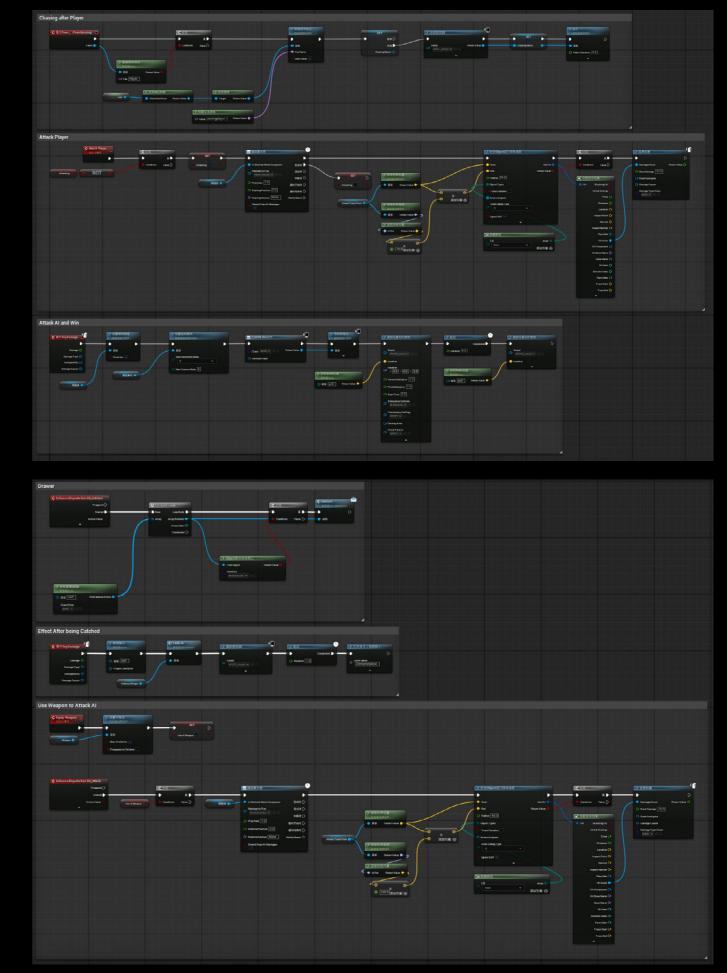
The third level introduces a turning point - players gain access to a weapon capable of defeating the AI. This shift in power allows for confrontation rather than avoidance.

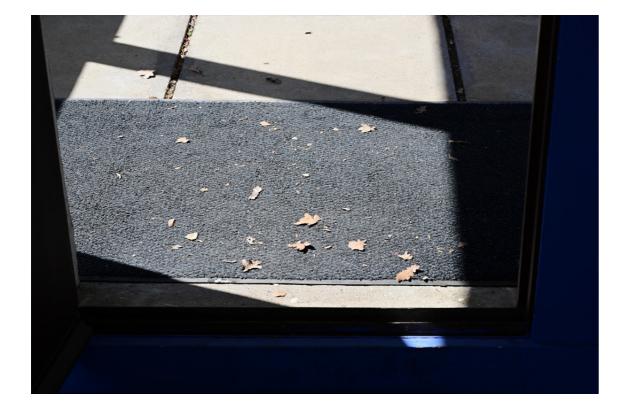


The journey through these levels resembles a gradual awakening from a dream: from fear and disorientation, through reflection, to eventual clarity and control.



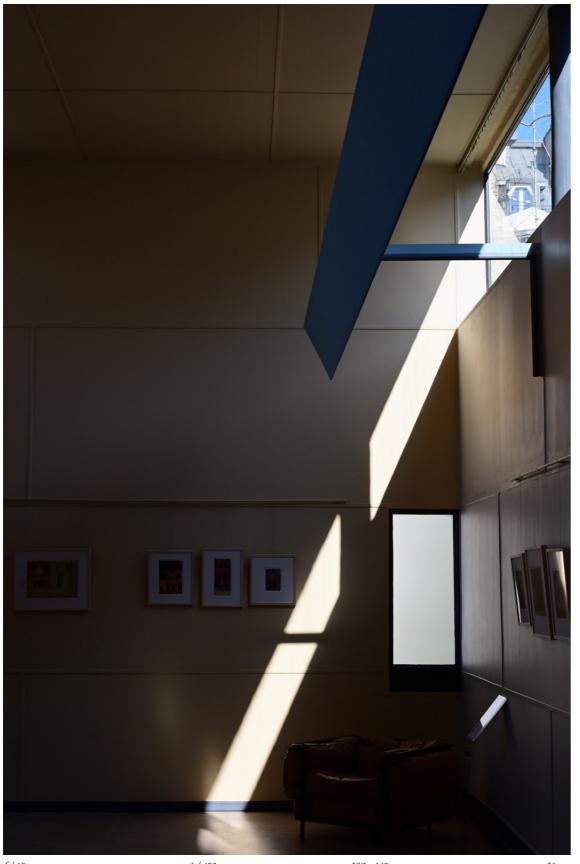
BLUEPRINT PROGRESS

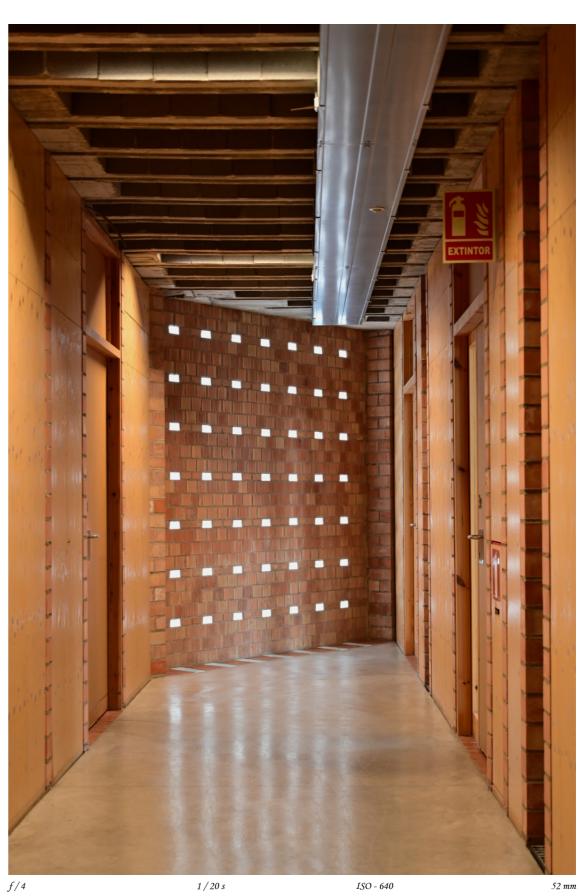




06 The Built World Architectural Photography

Individual Work Spring 2025 Elective Course Instructor: Michael J. Vahrenwal





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ISO - 640

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