





Harz University of Applied Sciences GERMANY







Mentor: Dominik Wilhelm

STUDENTS TEAM

Mayuri Iwata (Art / Animation) Takuma Wabiko (Code / Tech) Dominik Wilhelm (GD / Music)







WORKING TITLE: Simplicity

Platform: Smartphone/Tablet, PC Engine: Unity







CONCEPT

Simplicity of Complexity: "SIMPLI-CITY"

Based on the original idea of a minimalist game concept that can be scaled up easily and provide emergent gameplay experiences, we started to create a spatial puzzle game with the core mechanics of sliding & merging blocks on 3-axis to create increasingly larger and higher building types. The game should evoke a setting of "bright utopia vs. mystery" which was inspired by contrasting vintage architecture illustrations of "Archigram" and their optimism of technological advancement with the loneliness of empty cities, decaying commercial zones and the unfulfilled promises of technology.









Developing the game concept further

Collaborative sketching of how the block merging system can work on different axis.









Developing the game concept further

System for changing animation states of individual blocks to create a huge variety of building types.









Developing the game concept further

Defining rules, behaviours and themes of various block merge types.

Block Type	Description	Can Slide?	Merge Be	haviour M	lerge Rules	Color Concept	Design	Theme	Comment	
	 blocks connect Horizontally with TYPE_1 and TYPE_1-BASE, so TYPE_1 can have many different shapes (for example like TETRIS pieces) 	YES	HORIZON	TAL	Merge with TYPE_1-BASE (and TYPE_1 ? -> to be decided!)	TYPE_1 COLOR	 lowe Type iii re b si si o h e 	building like sidential uildings nops igh schools ic.		
			Block Type TYPE_2	Description blocks merge VERTICALLY with TYPE_2- BASE so the	YES	VERTICAL MERGE	Merge Rules Merge with TYPE_2-BASE	Color Concept	R • like a SKYSCRAPER! • Office	Skyscraper save space planning a r
				FLOOR area o TYPE_2 will st in size 1x1> BUT it will gro in HEIGHT	ıf tay ≻				 Hotels minimal, "Bauhaus", Modernist architecture 	have many people and offices on a small groun area
TYPE_2-BASE	 Always size 1x1! Connecting 2 base blocks of 	YES	MERGE UP1						style skyscrapers	 this block type helps to make space i the level. (Ge of TYPE2-BA blocks by
										merging the into Skyscraper • this VERTIC block type

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level will have







Developing the game concept further

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Art

Visual research, moodboards and concept sketches.









Art

Art Concept

We shared some art that we thought might be helpful.

- "Rhapsody of Steel", "Pigs is Pigs"...some simple, quiet art
- Realistic, watercolor building art by the Japanese

...etc

From among them, I chose the concept of "Archigram" art style.





Objects Sketching

Then I focused on the aerial photos and did some light sketching.





Objects Angles

Mr. Dominik focused on the angles of the horizontal surfaces of the house.I came up with the idea of isometric angles.(It may be difficult to do because the swipe direction and the angle at which the object moves are different.)











Art

Iwata-san created various concept artworks to explore different visual styles and moods.









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Art

Iwata-san explored working with the Unity Shader Graph to recreate the visual style she developed in her art concepts.









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Digital Prototyping

Wabiko-san created a first prototype of a basic block sliding & merging system.









Digital Prototyping

Test environment for dynamic building change system.









PARTNERS

• Benemérita Universidad Autónoma de Puebla



• Tokyo University of Technology, School of Media Science



LUCA School

- LUCA SCHOOL OF ARTS
- School of Art at Northern Illinois University



University of Ostrava



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