

A BENCHMARK 3D-ENVIRONMENT FOR GAME TESTING

What 3D-environment are we building?

BUGS TO IMPLEMENT

TO IMPLEMENT

Gadgets	Time To Action - doors opening/closes with button
	Do not work / wrong impact
Geometry	Falling through floor
	Getting stuck
	Can walk through walls
Game state issues	Doors, can/can't walk through
Physics	Basic, such as jump height
Game logic	Sequence of events

Total 8 bugs

MAYBE LATER

Visual	Textures missing, wrongly stretched or scaled
	Flashing artifacts
	Visual clipping
	Other visual bugs
Gadgets	Enter and drive off with a vehicle

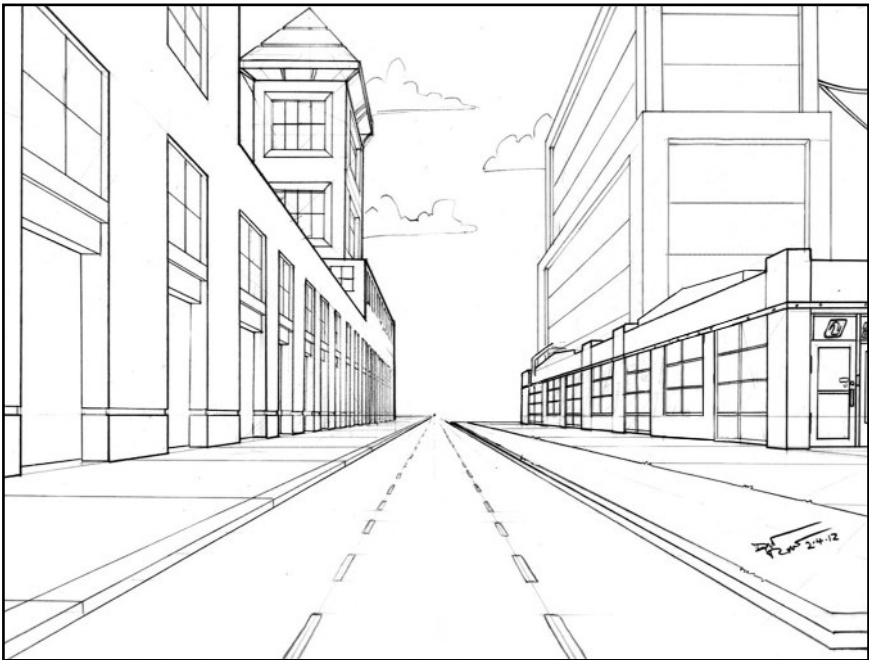
NOT IMPLEMENTED

Gadgets	Dispersals after pick up
Transitional	Audio and character movement transitions
Physics	Complex, such as action and reaction don match
Persistence	Counted actions saved to a state/score
Network	Scattered movement from network dysfunction
Performance	General performance problems
Fatal	Crashes

THE CITY

Artwork includes work by
Dustin Resch and A-Digit

BASIC



ASSETS

Road, straight
Road, intersection
Houses, 7-10 types

Total: ~ 9-12 assets

TEXTURES

Road textures
House textures

Total: ~ 9-12 textures

BUGS

Geometry - can walk through walls
Physics - Basic, such as jump height

Total 2/8 bugs

INTERMEDIATE



+ ASSETS

Doors, 1-3 types
- (Windows, 1-3 types)
Button
Street lights
Traffic lights
Cars 3-6

+ 7-15 assets
Total: 16-27 assets

+ BUGS

Gadgets - TTA, doors opening/close time
Game state - Doors can/can't walk through
Sequence of events

+3 bugs
Total 5/8 bugs

+ TEXTURES

Door textures
- (Window textures)
Button texture
Car textures
Light textures

+ 7-15 textures
Total: 16-27 textures

DETAILED



+ASSETS

Trees
Street items; waste
bins, signs, plants
Bridge/elevator
Other gadgets

+ ~5 assets
Total: ~ 21-32 assets

+ BUGS

Gadgets - Do not work/wrong impact
(Gadgets - Enter/drive off with a vehicle)

+1 bugs
Total 6/8 bugs

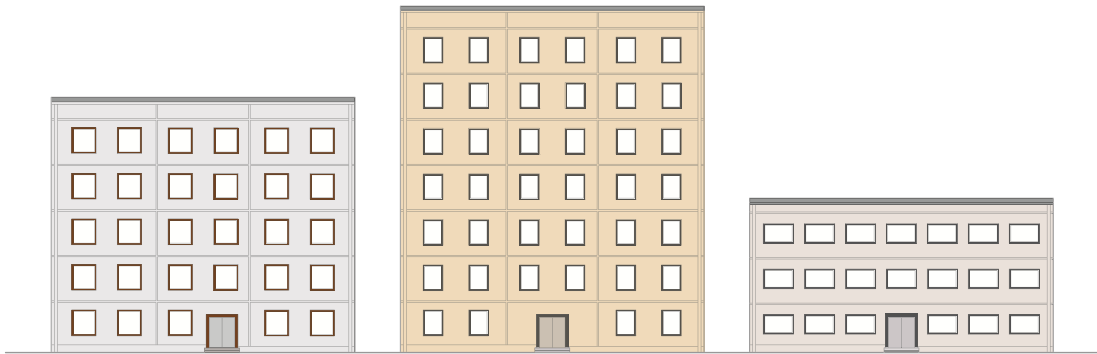
+ TEXTURES

Tree textures
Street item textures
Bridge/elevator texture
Gadget textures

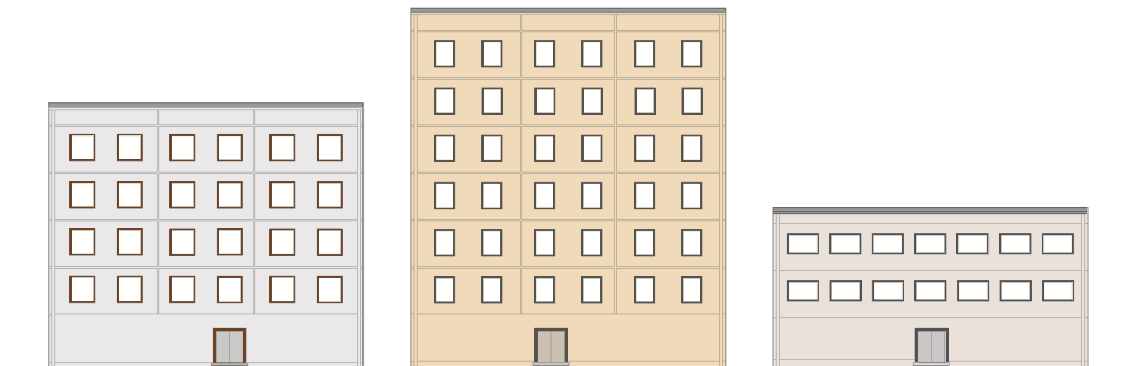
Total: ~21-32 textures

BUILDINGS AND DOORS

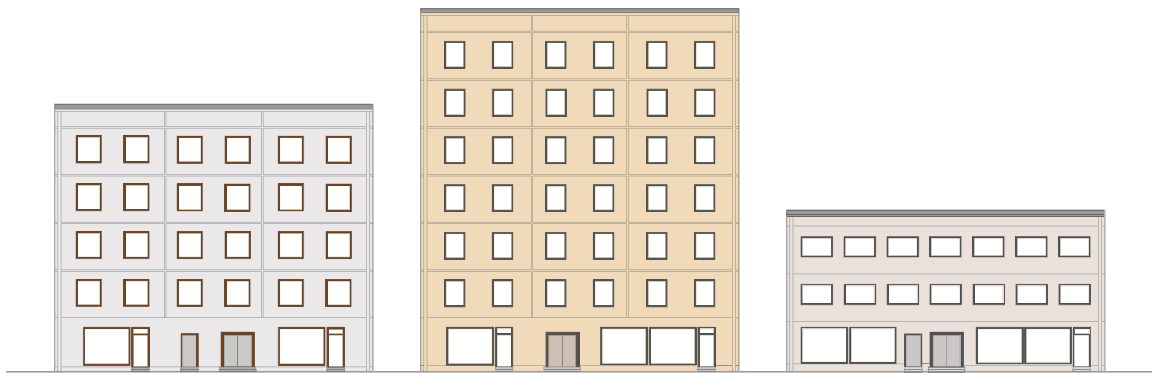
ELEVATIONS BUILDINGS



1. BASIC FIXED BUILDINGS
Generated once, fixed

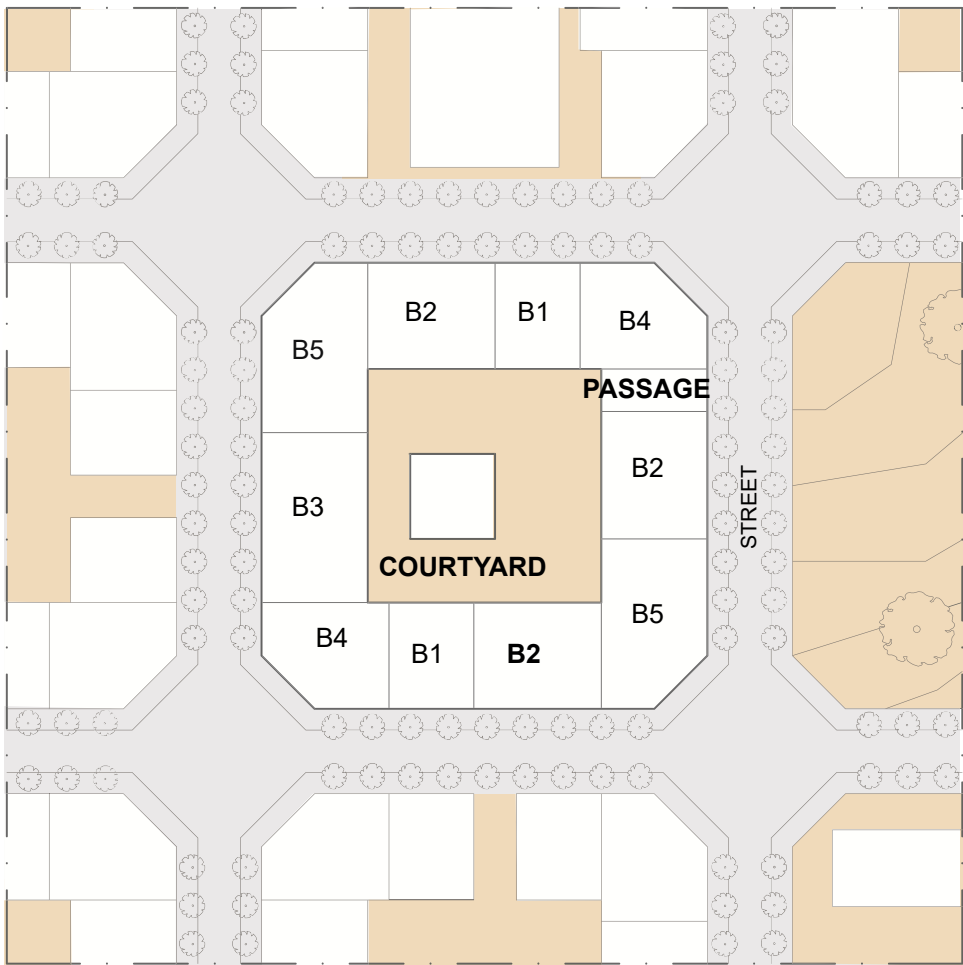


2. GROUND FLOOR LEFT BLANK
Door placed randomly



3. REGENERATED BOTTOM FLOOR
Bottom floor regenerated

PLAN, GENERATED BLOCK

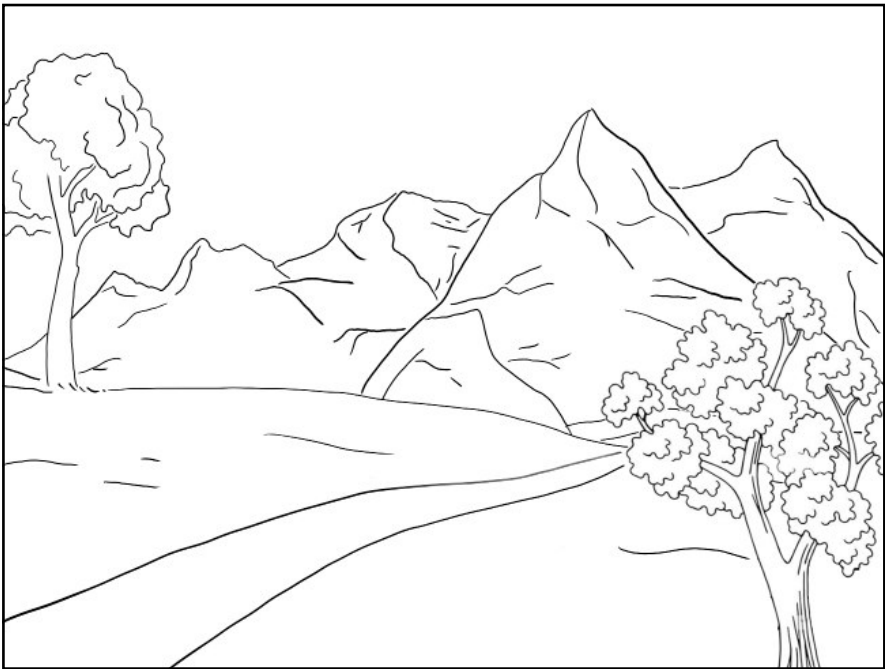


4. INTERNAL COURTYARD ACCESSED BY PASSAGE
Moved around as a piece in the block

PARK OR TERRAIN

Artworks are based on work by Arkadivna,
Aluna1 and Volodymyr Kryshchal

BASIC



ASSETS

Terrain
Trees, 1-3 types
Path

Total: 3-5 assets

TEXTURES

Terrain texture
Tree textures
Path texture

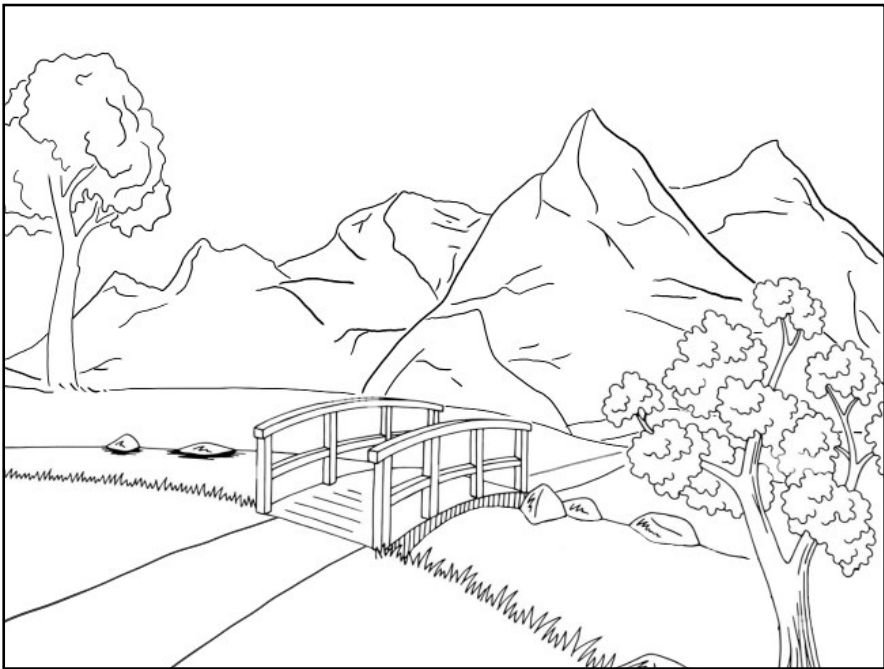
Total: 3-5 textures

BUGS

Geometry - Getting stuck
Geometry - Falling through the floor

Total 2/9 bugs

INTERMEDIATE



+ ASSETS

Bridge
Button
Stones 1-3 types

+ 3-5 assets
Total: 6-10 assets

+ TEXTURES

Bridge texture
Button texture
Stone texture

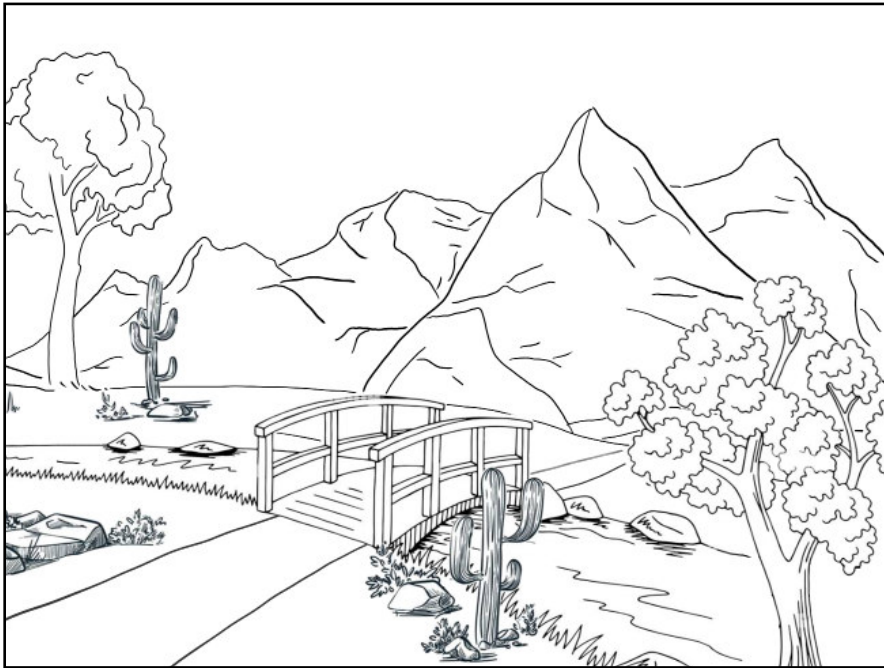
+ 3-5 textures
Total: 6-10 textures

+ BUGS

Gadgets - TTA, doors opening/close time
Game state - Doors can/can't walk through
Sequence of events

+3 bugs
Total 5/9 bugs

DETAILED



+ASSETS

Plants, 3-5 types
River/Water
Rocks

+ ~5-7 assets
Total: ~15-17 assets

+ TEXTURES

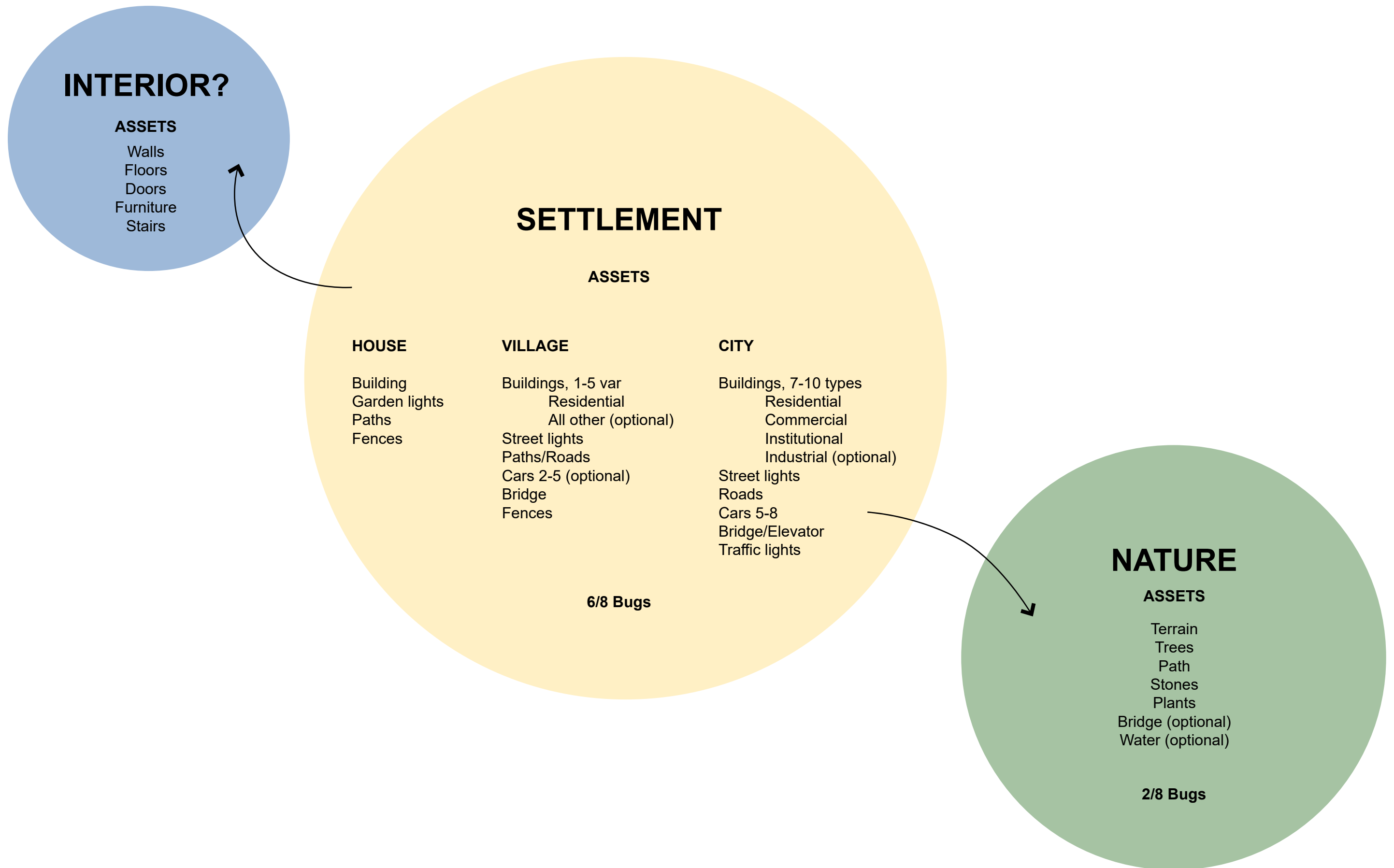
Plant textures
Water texture
Rock textures

+ ~5-7 textures
Total: ~15-17 textures

+ BUGS

(Water-related bugs)

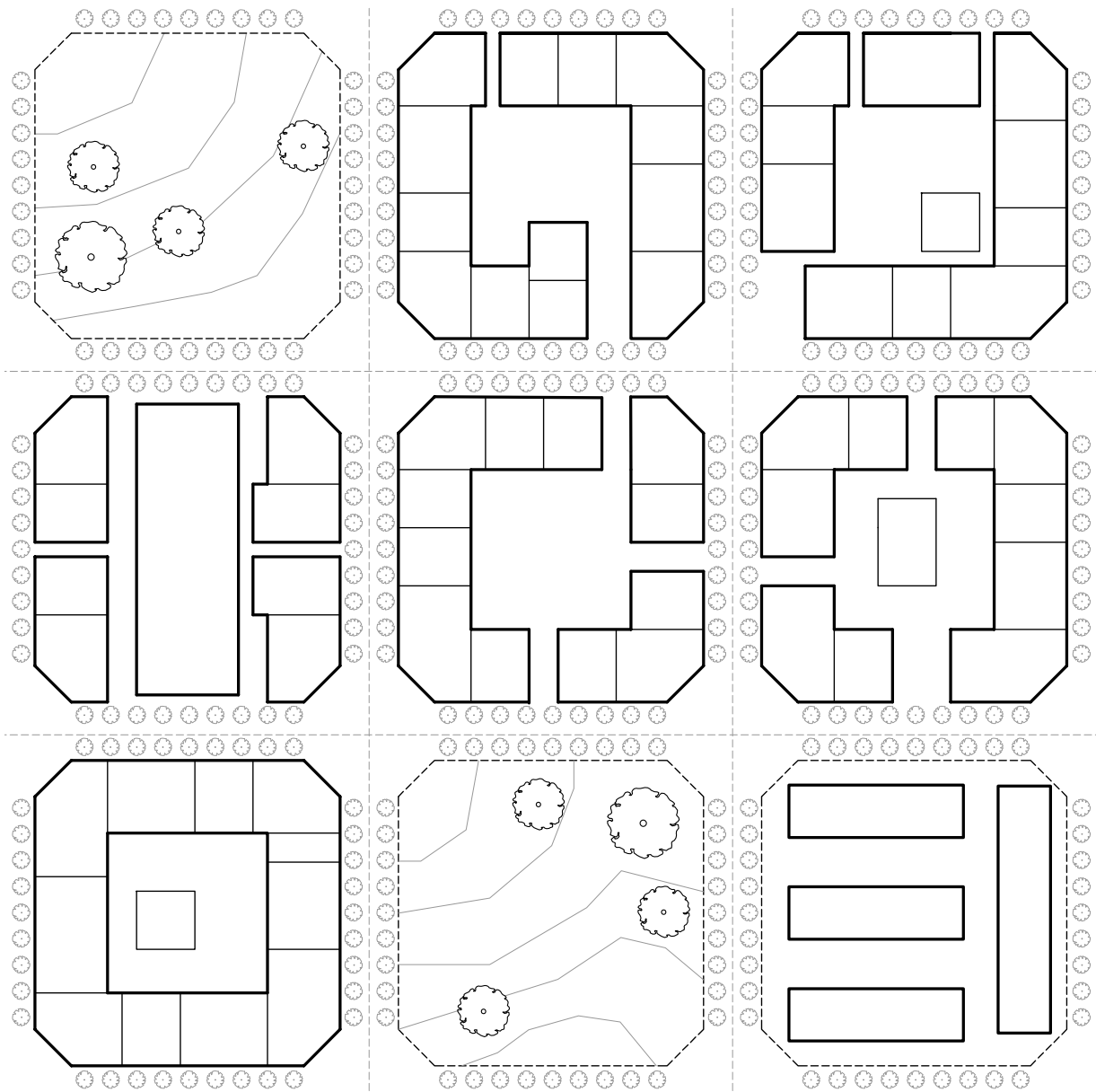
+0 bugs
Total 5/9 bugs



SETTLEMENTS

PROCEDURALLY GENERATED

CITY



VILLAGE



FOR OTHER AREAS OF AI RESEARCH

How could the benchmark be of interest?

What applications could be imagined and what would be required?