

# Dungeon Architect Quick Start Guide

for Unreal Engine 4

## 1 Introduction

Dungeon Architect comes bundled with several examples to quickly get you started. The samples below use assets that are freely available (e.g. Infinity Blade's Assets) and some are built on other paid assets, which you can readily use if you have them already.

## 2 Download Content Pack

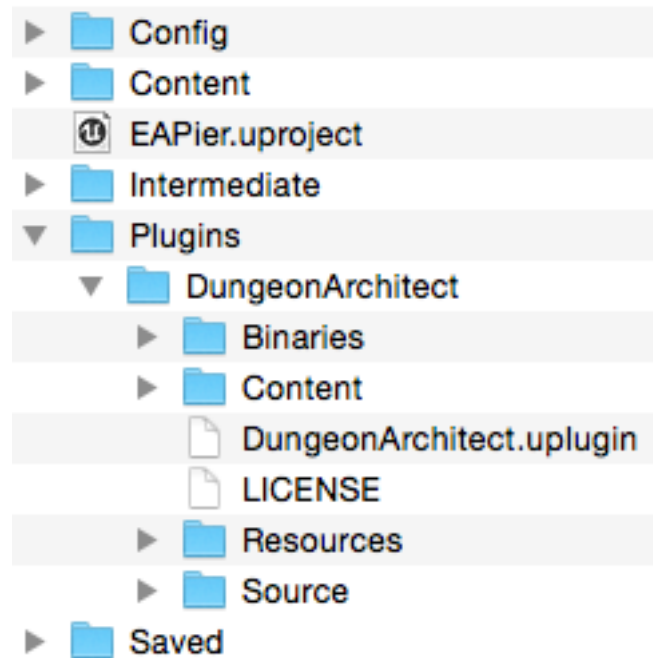
**Download** the Quick Start Content pack for Dungeon Architect version **2.4+**

## 3 Plugin Installation (Manual)

If you have purchased the plugin from the Marketplace, install it from the Epic Launcher

If you have purchased it from the website, follow these steps:

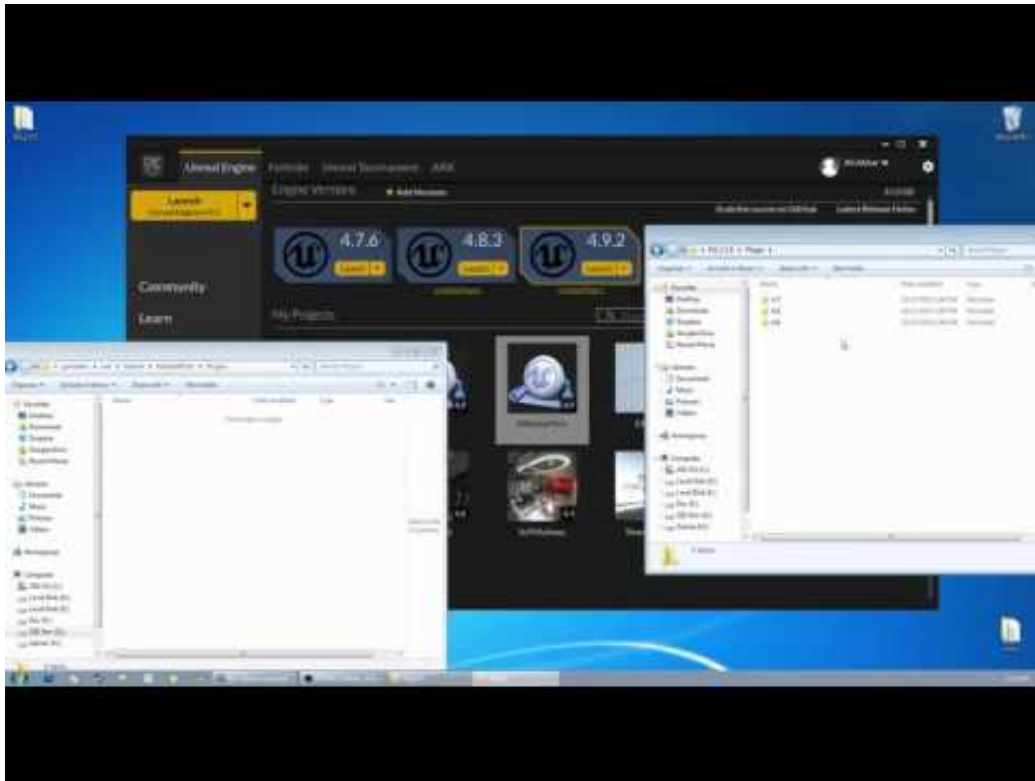
- Create a directory named Plugins in your game's root directory
- Extract the content of the downloaded plugin into the plugins directory. All major versions of UE4 are supported since 4.7. Choose the appropriate one to copy into



the Plugins folder

- Refer the User Guide for more info

### Installation Video Tutorial



[View in Youtube](#)

## 4 Build a dungeon (Design Time)

The plugin comes with sample assets and maps to get you started. Open the test map where everything is already setup

- Install Dungeon Architect plugin
- Download and extract the Quick Start Content Pack
- Copy the extracted Content/DA\_StarterPack folder into your game's Content

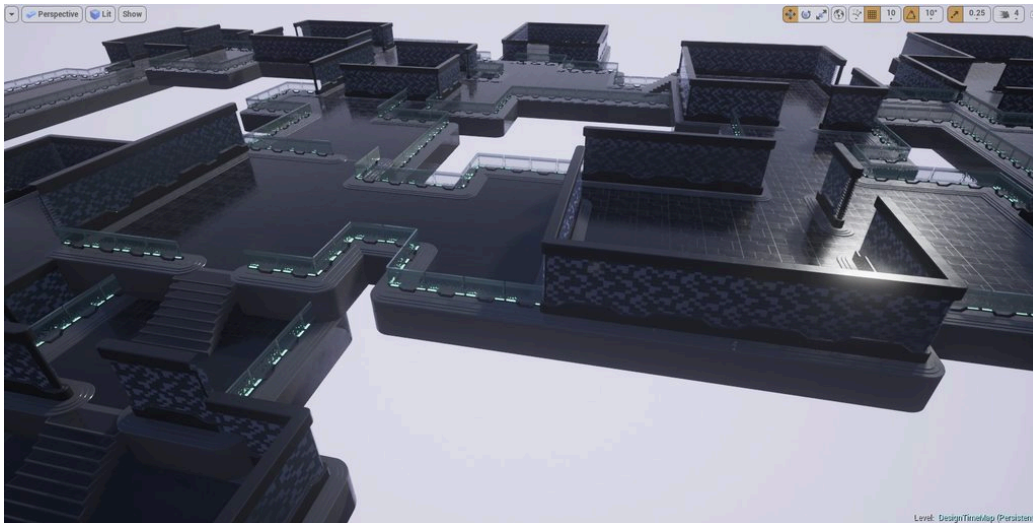
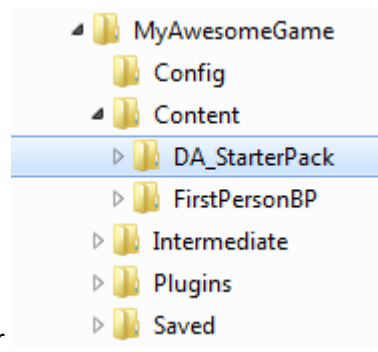


Figure 1: Sample map



folder

- Open the sample map by navigating to Content > DA\_StarterPack > Maps > DugeonDesignTime
- From the world outliner, click the Dungeon1 Actor.
- In the details panel, you will find 3 buttons in the Dungeon category. Click the “Build Dungeon” button. This will create a procedural dungeon in your scene using a sample theme you just extracted
- The config structure contains various parameters that can be tweaked to get different results

To build this setup yourself from scratch, refer the User Guide



[View in Youtube](#)

## 5 Build a dungeon (Runtime)

Random dungeons can be created at runtime (e.g. during level load) using a random seed (some number) and various tweakable parameters and have the map populated with powerups, spawn points, NPCs etc. All this can be done using pure blueprints and this sample map shows you how to do it

- Install Dungeon Architect plugin
- Copy the extracted Content/DA\_StarterPack folder into your game's Content folder
- Open the sample map by navigating to Content > DA\_StarterPack > Maps > DungeonRuntime
- The scene is empty. Click the play button to have the procedural scene generated at runtime. A different level is generated on each run

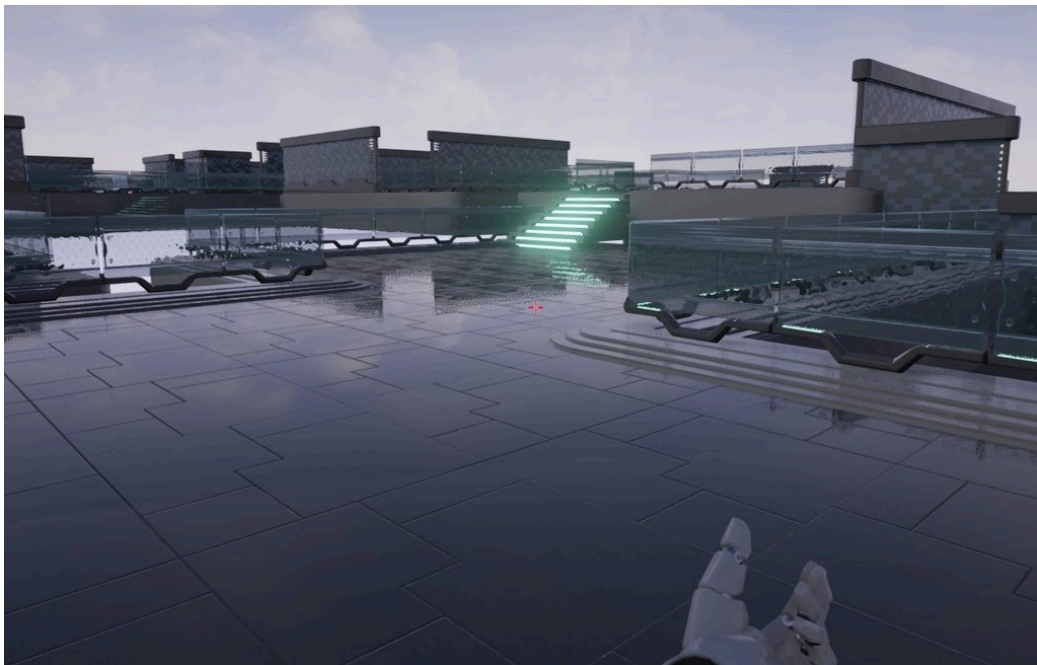
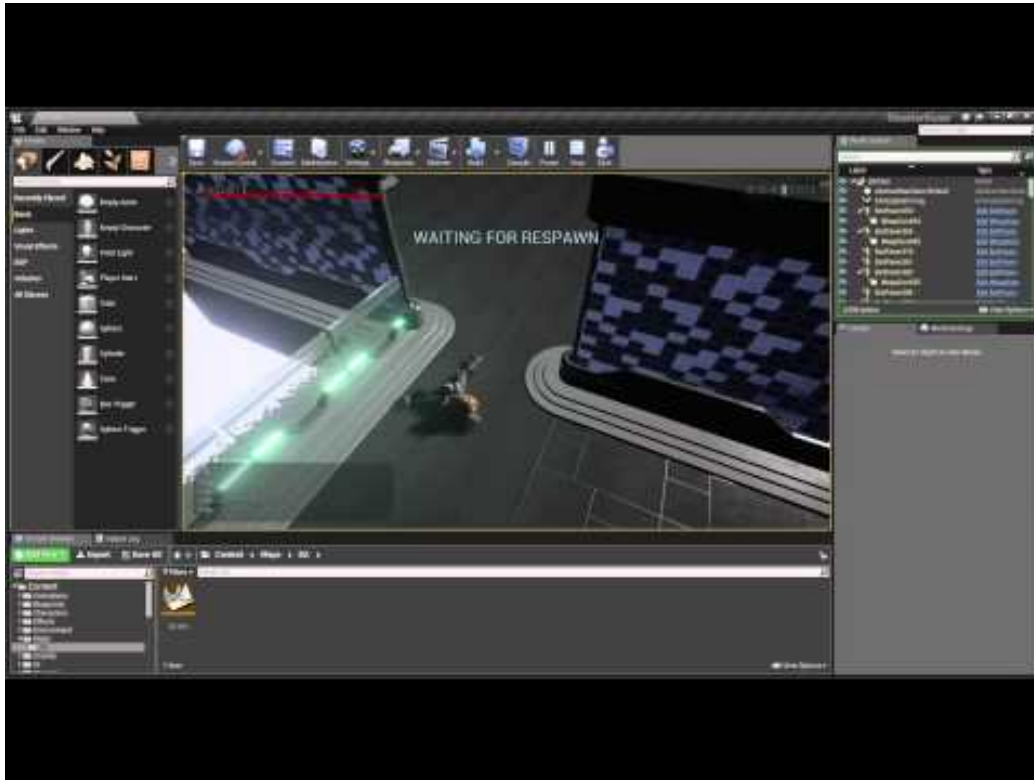


Figure 2: Sample map

- Open the level blueprint to see how this is done



[View in Youtube](#)

## 6 Level Authoring by Players (Runtime)

Dungeon Architect empowers not just your level designer, but also your players. This sample shows how you can have an in-game level editor and let your player design the layout of the levels. Most of the heavy lifting is done by the plugin. This game mode is designed entirely in blueprints.

- Install Dungeon Architect plugin
- Copy the extracted Content/DA\_StarterPack folder into your game's Content folder
- Open the sample map by navigating to Content > DA\_StarterPack > Maps > RuntimeLevelBuilder
- Do **not** build the dungeon. Just hit play

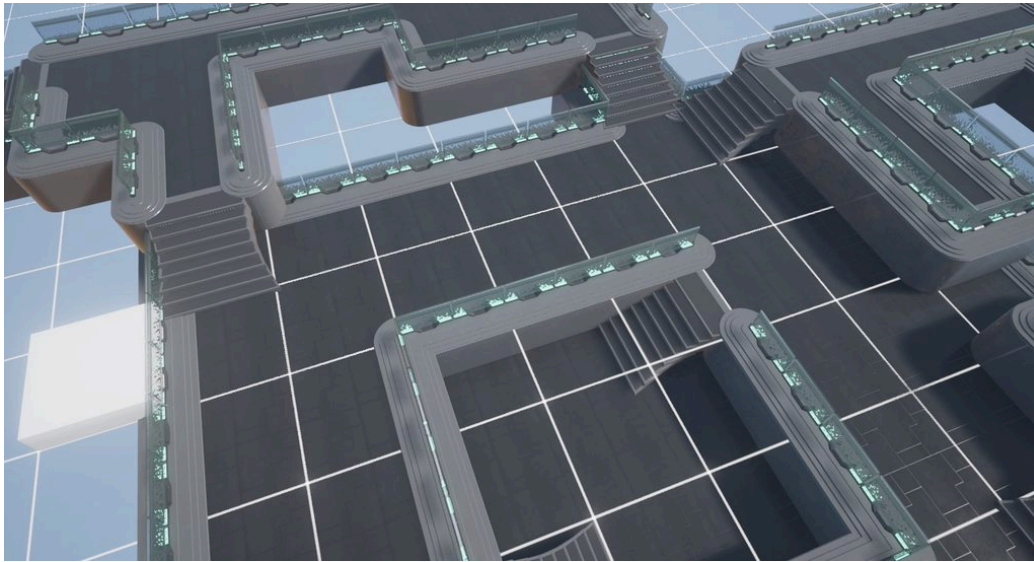
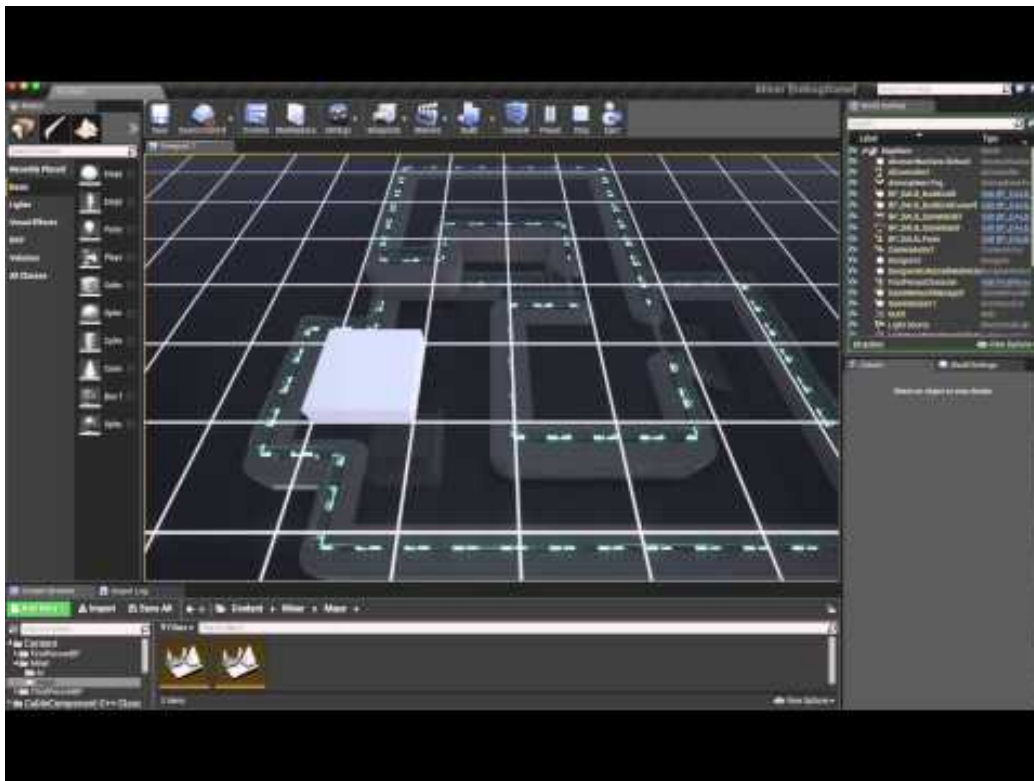


Figure 3: Sample map

### Controls

- Use WASD to move around
- Hit space to enter / exit build mode
- In build mode, Left click to draw, right click to erase
- Use the mouse wheel to change level (height)





[View in Youtube](#)

## 7 Infinity Blade: Fire Lands Theme (Hell Forge)

Generate beautiful cave like procedural levels using assets from Infinity Blade's Fire Lands asset pack

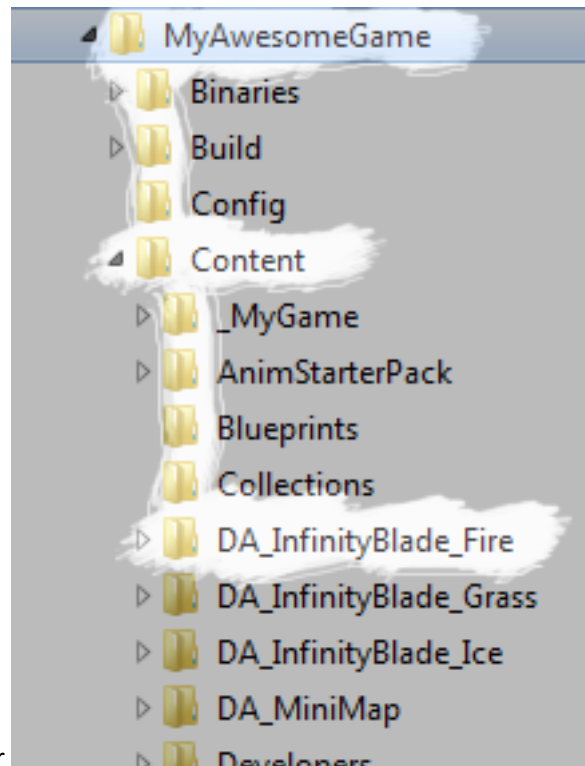


[View in Youtube](#)





- Create a new project (e.g Third Person)
- Install Dungeon Architect plugin
- Add the Infinity Blade Fire Lands pack in your game project
- Add the Infinity Blade Effects pack in your game project
- Copy the Content/DA\_InfinityBlade\_Fire folder into your game's Content



folder

- Explore the maps in the Content/DA\_InfinityBlade\_Fire/Maps folder

## 8 Infinity Blade: Ice Lands Theme (Frost Forge)

Generate beautiful procedural levels using assets from Infinity Blade's Ice Lands asset pack

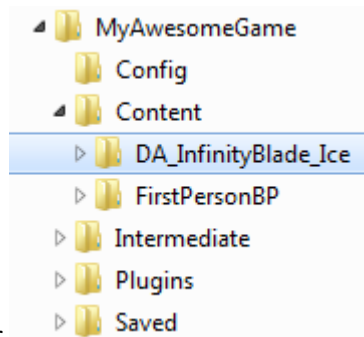


[View in Youtube](#)





- Create a new project (e.g an Third Person)
- Install Dungeon Architect plugin
- Add the Infinity Blade Ice Lands pack in your Content folder
- Copy the Content/DA\_InfinityBlade\_Ice folder into your game's Content



folder

- Explore the maps in the Content/DA\_InfinityBlade\_Ice/Maps folder

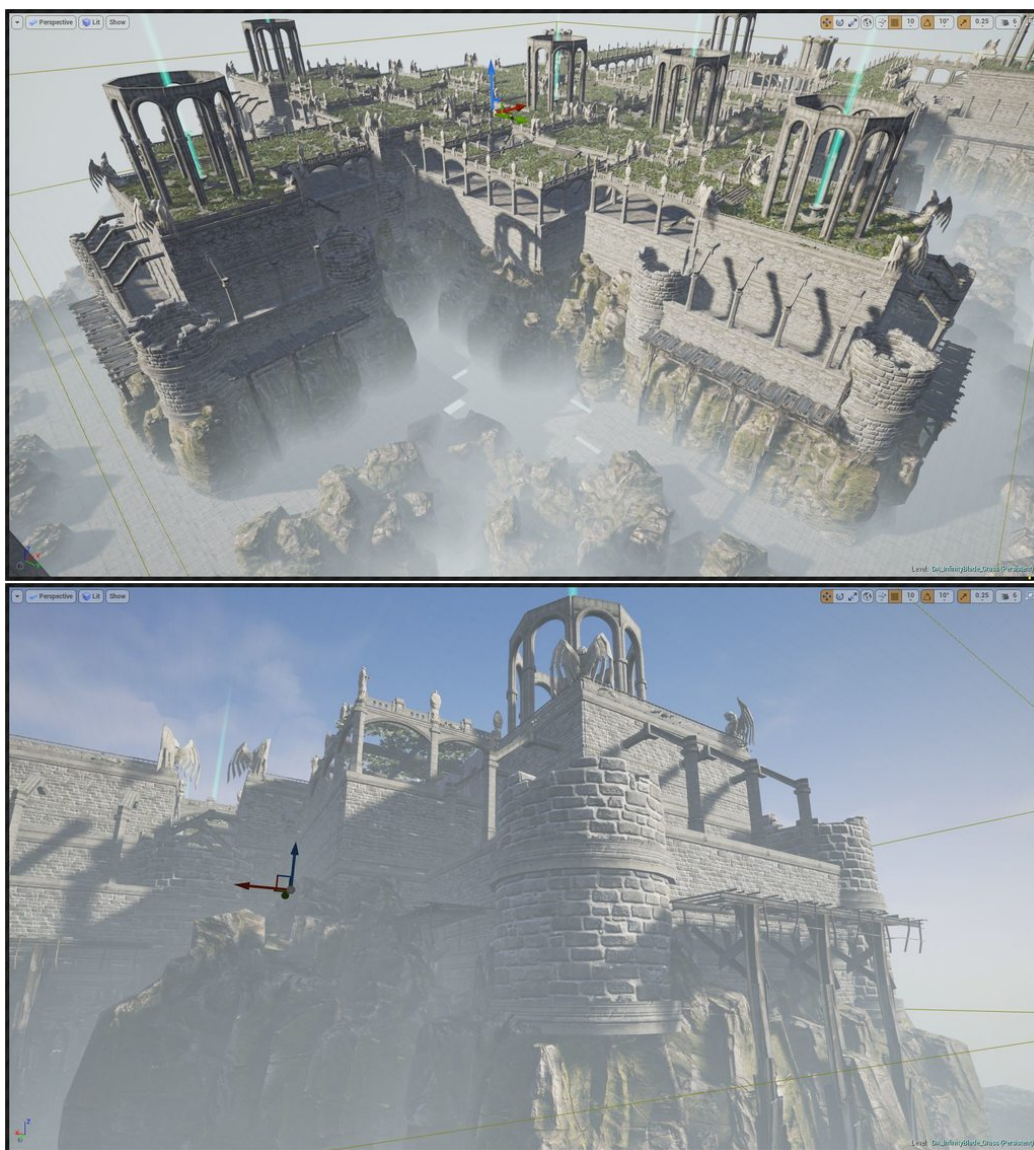
## 9 Infinity Blade: Grass Lands Theme (Elven Gardens)

Generate beautiful procedural levels using assets from Infinity Blade's Grass Lands asset pack



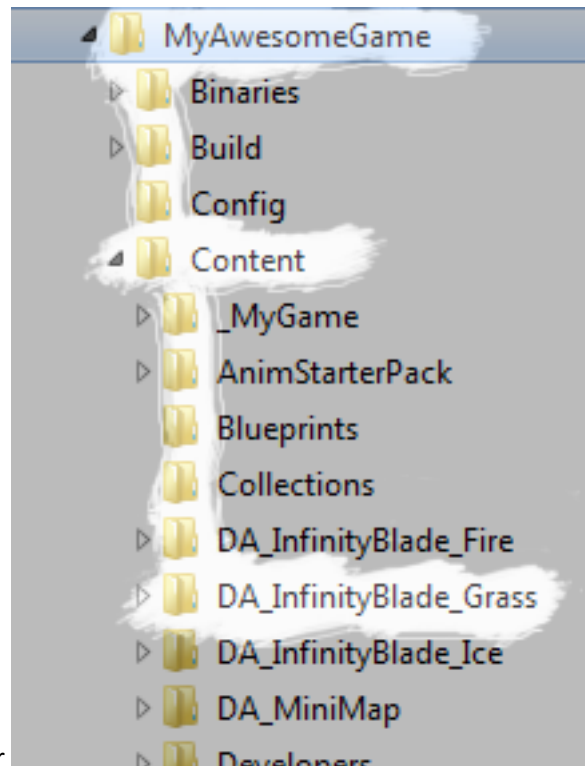


[View in Youtube](#)





- Create a new project (e.g an Third Person)
- Install Dungeon Architect plugin
- Add the Infinity Blade Grass Lands pack in your game project
- Add the Infinity Blade Effects pack in your game project
- Copy the Content/DA\_InfinityBlade\_Grass folder into your game's Content



folder

- Explore the maps in the Content/DA\_InfinityBlade\_Grass/Maps folder

## 10 Candy

A simple theme created using royalty-free assets

- Install Dungeon Architect plugin
- Copy the Content/DA\_Candy folder into your game's Content folder
- Explore the maps in the Content/DA\_Candy/Maps folder

## 11 Basic Top-Down Theme

The very basic theme created using simple shapes



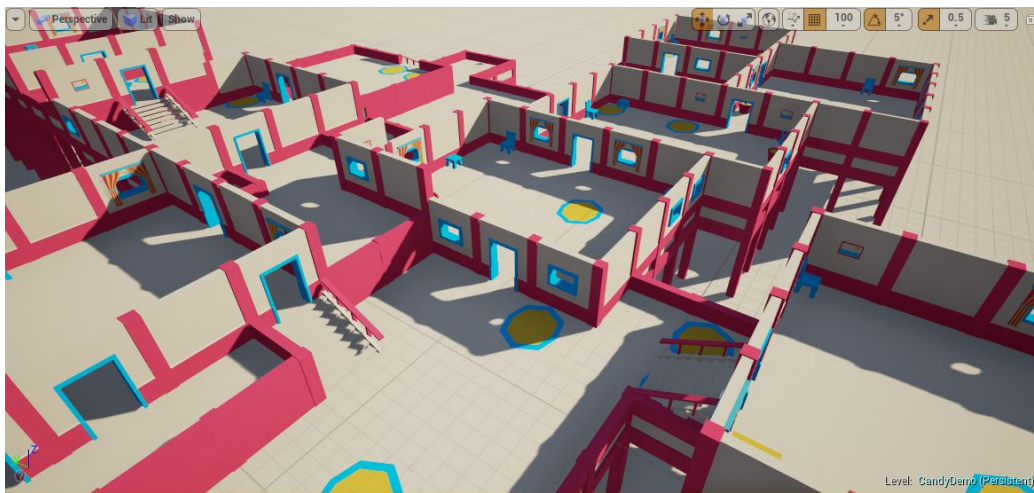
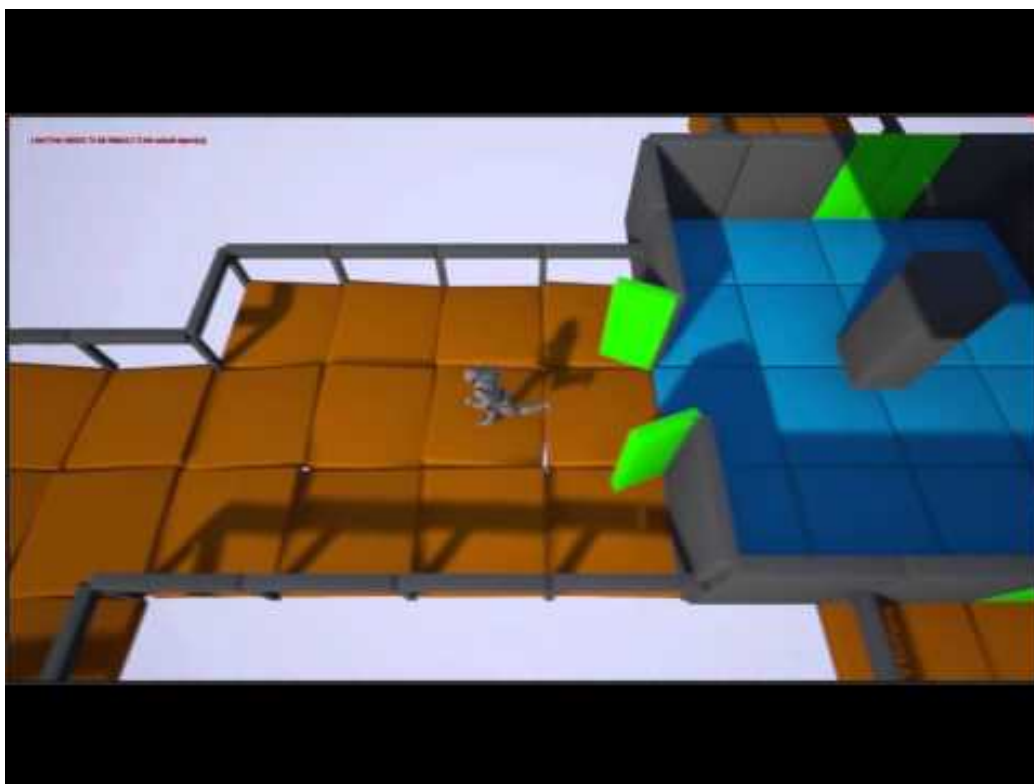
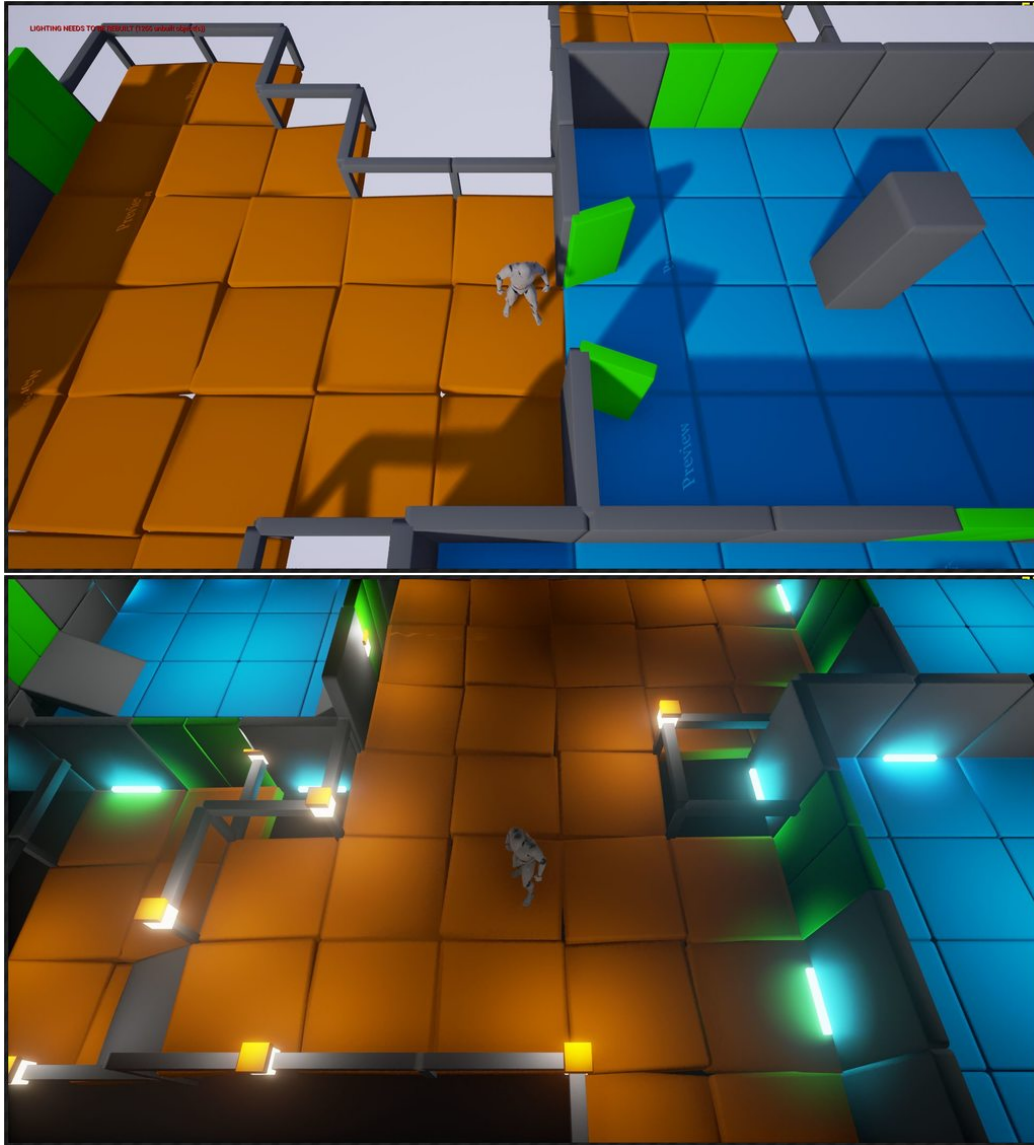


Figure 4: Install folder



[View in Youtube](#)



- Create a new project (e.g a Top-down game)
- Install Dungeon Architect plugin
- Copy the Content/DA\_TutorialGame folder into your game's Content folder
- Explore the maps in the Content/DA\_TutorialGame/Maps folder

## 12 Procedural Deathmatch Map

Generate a random map at runtime with AI bots, powerups, spawn points etc scattered all over the map using only blueprints. It also shows you how to setup multiplayer dungeons, where the server propagates the dungeon seed value to all the clients so they generate the exact same dungeon



[View in Youtube](#)

[Follow the installation steps here](#)

## 13 Query System Examples

The query system lets you query useful information about the generated dungeon so you can use it for gameplay specific tasks

- Copy Content/DA\_Query\_Examples folder into your game's Content folder



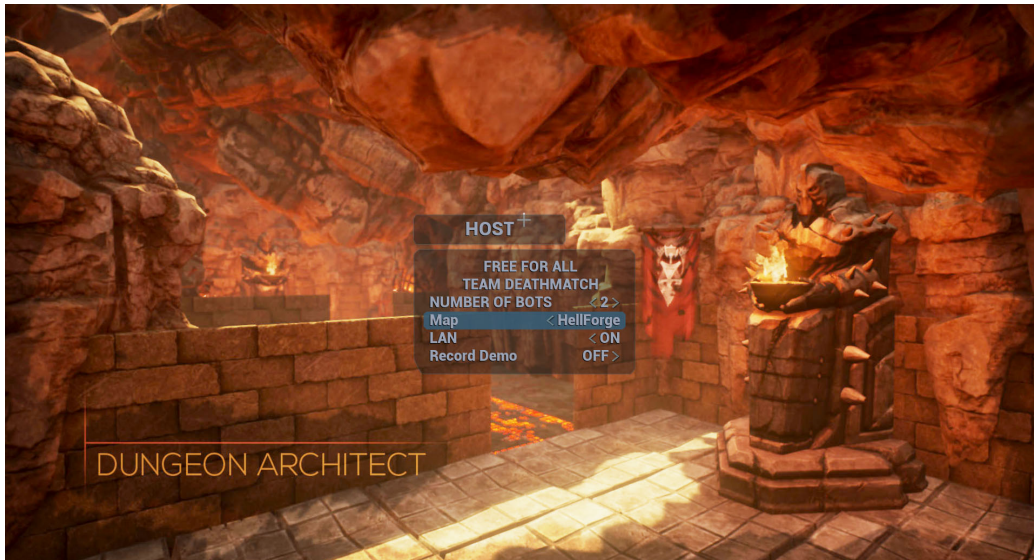


Figure 5: Deathmatch map

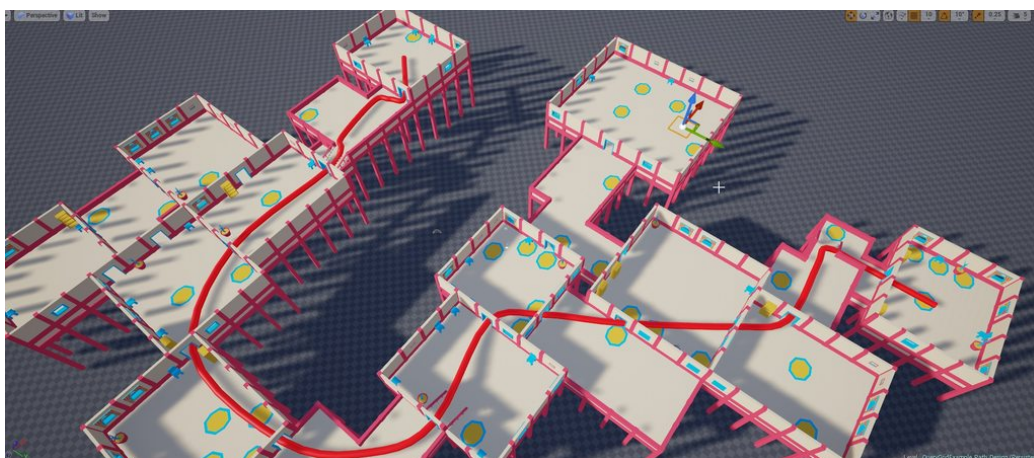


Figure 6: Query Examples



- Copy Content/DA\_Isaac\_Demo folder into your game's Content folder
- Copy Content/DA\_Candy folder into your game's Content folder
- Copy Content/DA\_TutorialGame folder into your game's Content folder
- Explore the maps in the Content/DA\_Query\_Examples/Grid and Content/DA\_Query\_Examples/Isaac folder

## 14 Misc Examples

There are various examples showcasing various features of Dungeon Architect

- Copy Content/DA\_Misc\_Examples folder into your game's Content folder
- Copy the following folders into your game's Content folder: Content/DA\_Candy, Content/DA\_StarterPack, Content/DA\_TutorialGame
- Explore the maps in the Content/DA\_Misc\_Examples/Maps

Clustered theming feature allows you to automatically apply different themes to various parts (clusters) of your dungeons. This helps in adding variation to your levels

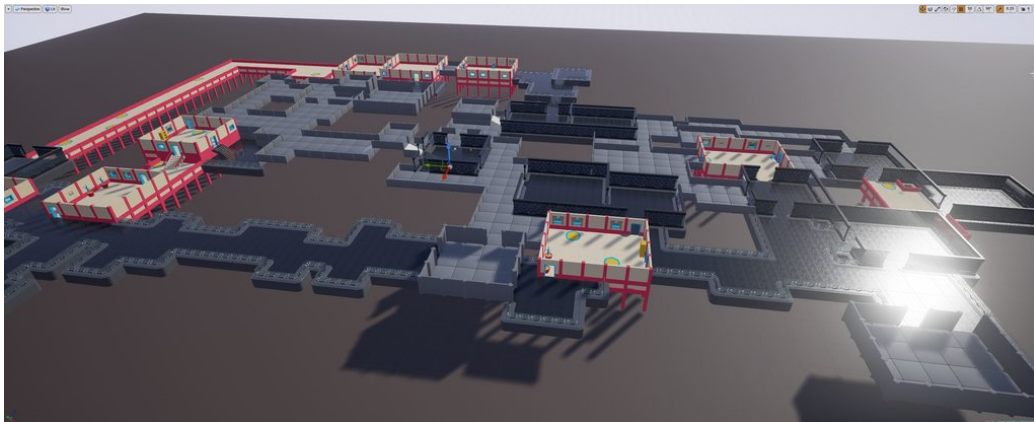


Figure 7: Clustered Theming

Markers emitted by Dungeon Architect can be modified by a event listener before it is sent to the theming engine. This give you more low level control on the dungeon. This example applies a curve filter on the markers

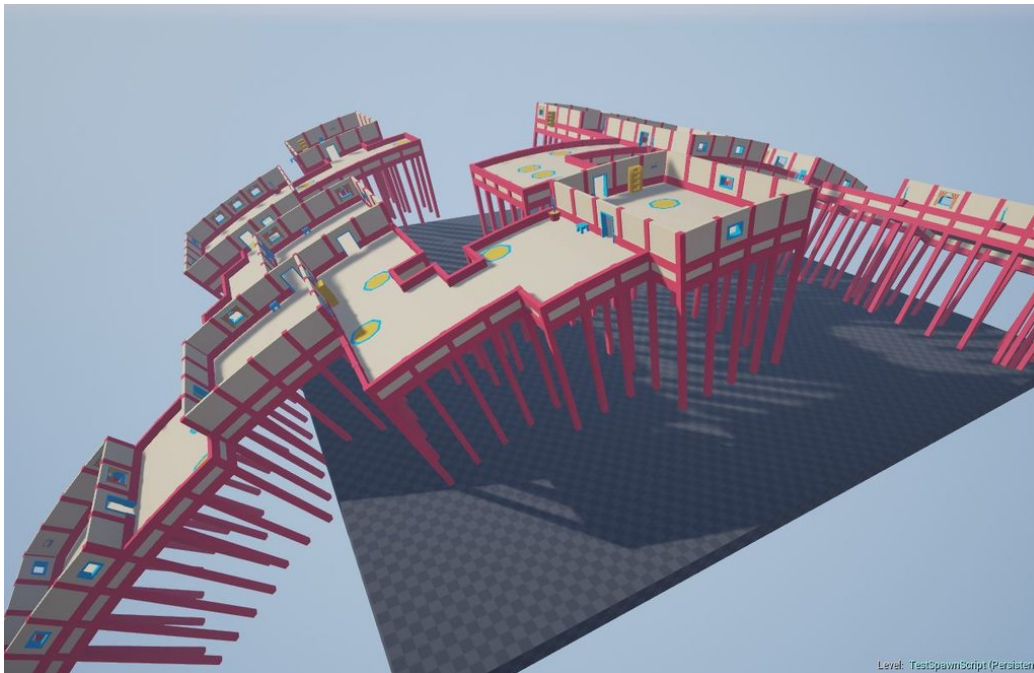


Figure 8: Marker Filter Examples

## 15 SciFi Theme

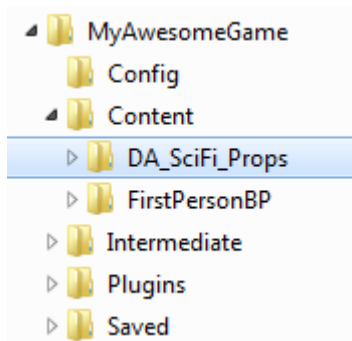
A set of theme files to generate sci-fi levels using the awesome SciFi Props Pack



[View in Youtube](#)



- Create a new project (e.g an FPS project)
- Install Dungeon Architect plugin
- Install the SciFi Props Pack to your project
- Copy the Content/DA\_SciFi\_Props folder into your game's Content folder

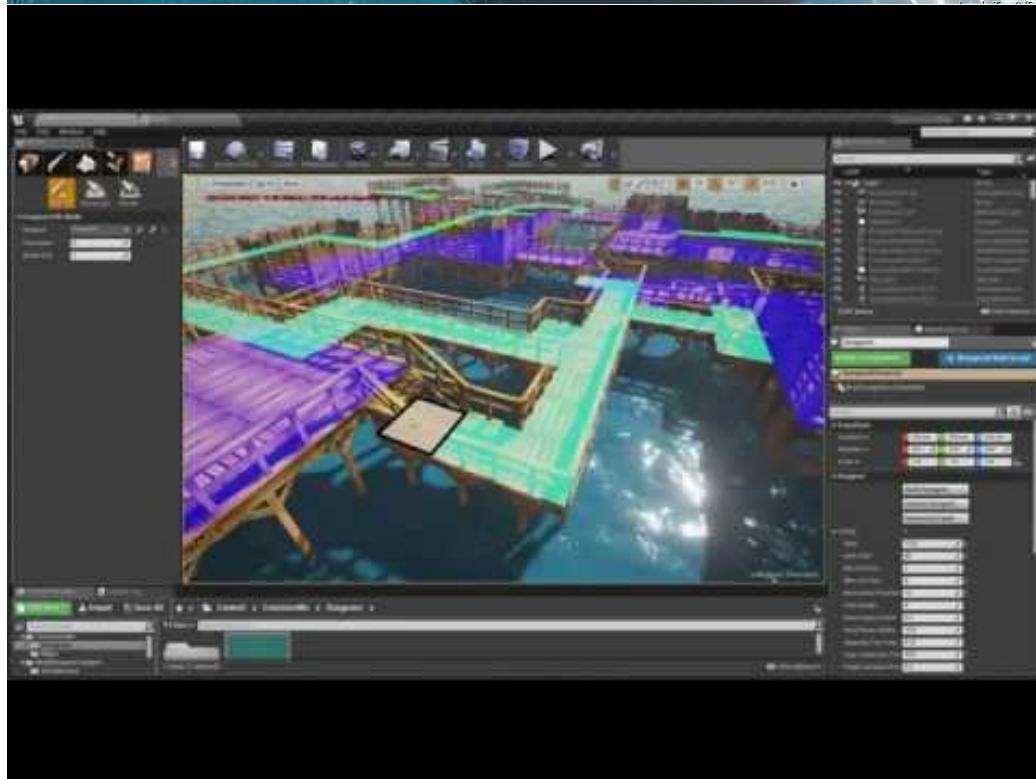


- Open the demo map Content/DA\_SciFi\_Props/Maps/SciFiMapDemo
- Select the Dungeon1 actor and click *Build Dungeon* from the Details window

## 16 Wooden Pier Theme

A theme file to generate levels using the awesome Modular Wooden Prop Pack





[View in Youtube](#)

- Install Dungeon Architect plugin
- Install the Modular Wooden Prop Pack to your project
- Copy the Content/DA\_WoodenPier folder into your game's Content folder
- Explore the maps under Content/DA\_WoodenPier/Maps

## 17 Floor Plan Demo

Build floor plans for your indoor levels using the new Floor Plan Builder.



[View in Youtube](#)







- Create a new project (has to be First Person Blueprint, since the demo uses a modified player controller for the lift buttons to work)
- Install Dungeon Architect plugin
- Install Sci-Fi Hallways (it's ok to install an older compatible version)
- Copy the Content/DA\_Floorplan\_Demo folder into your game's Content folder
- Open the map Content/DA\_Floorplan\_Demo/FloorPlan/OfficeBuilding
- Press E to call the lift programmed in the demo

## 18 Outdoor Cliff

An outdoor theme built with free assets



[View in Youtube](#)

- Install Dungeon Architect plugin
- Copy the Content/DA\_OutdoorCliff folder into your game's Content folder
- Open the map Content/DA\_OutdoorCliff/ToonLand

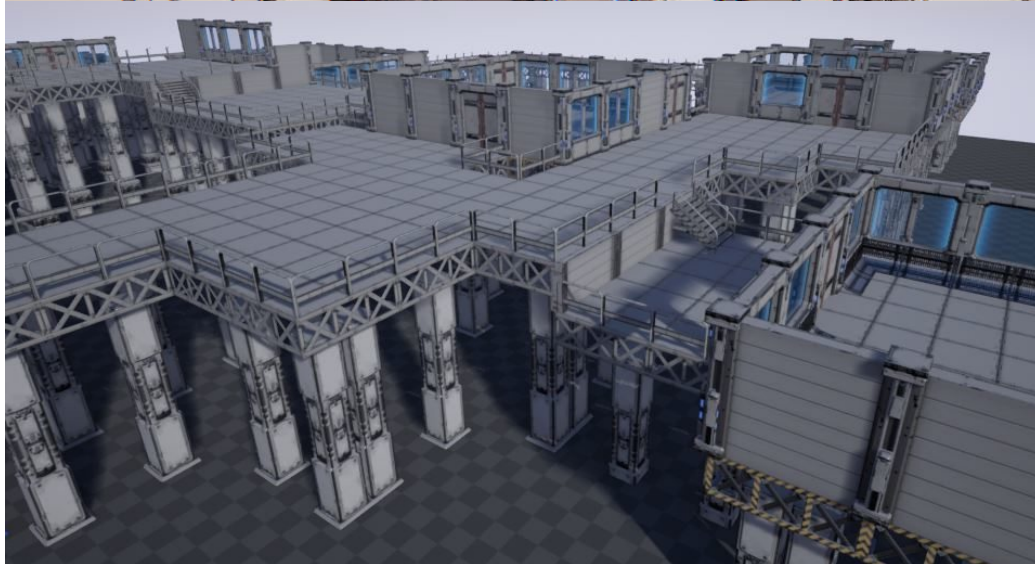
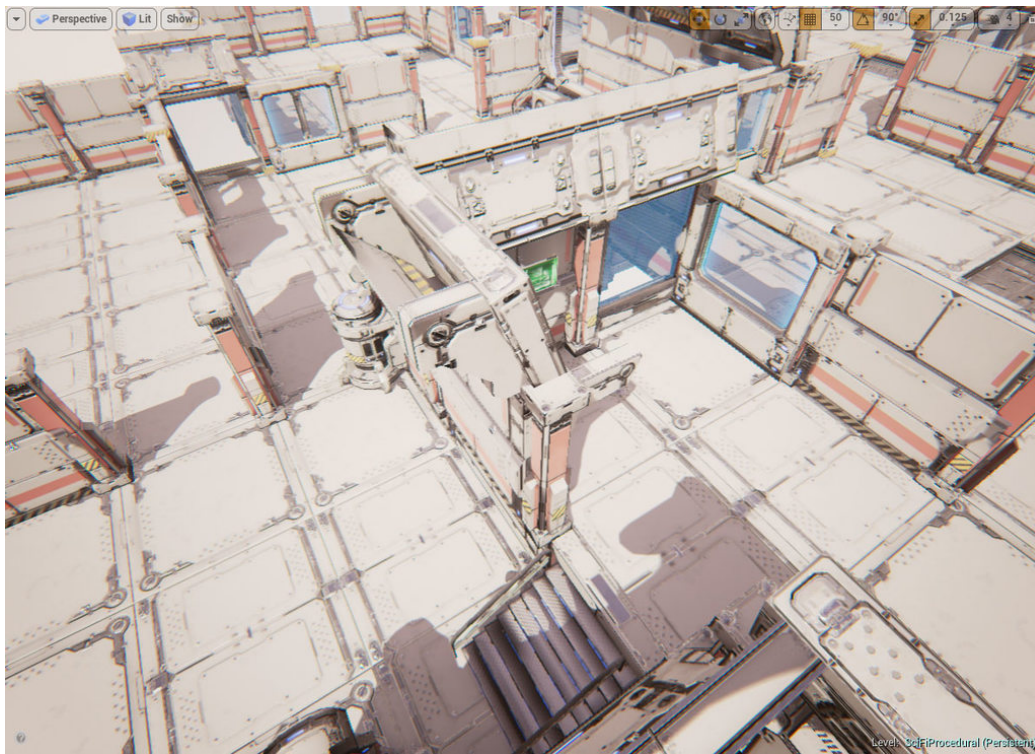
## 19 Scifi Theme 2 (Manufactura K4)

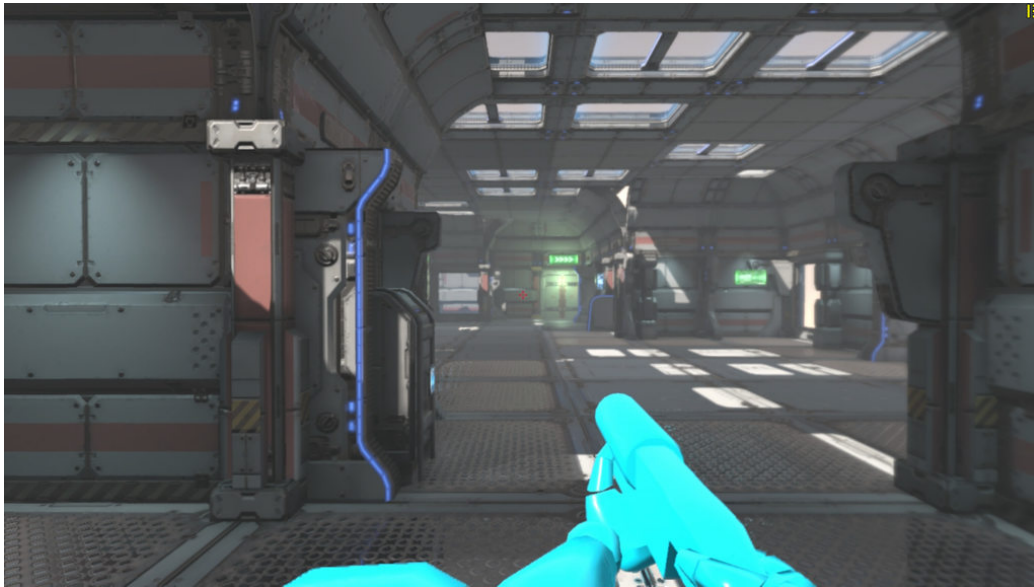
A set of theme files to generate levels using the awesome Top-Down Sci Fi pack



[View in Youtube](#)



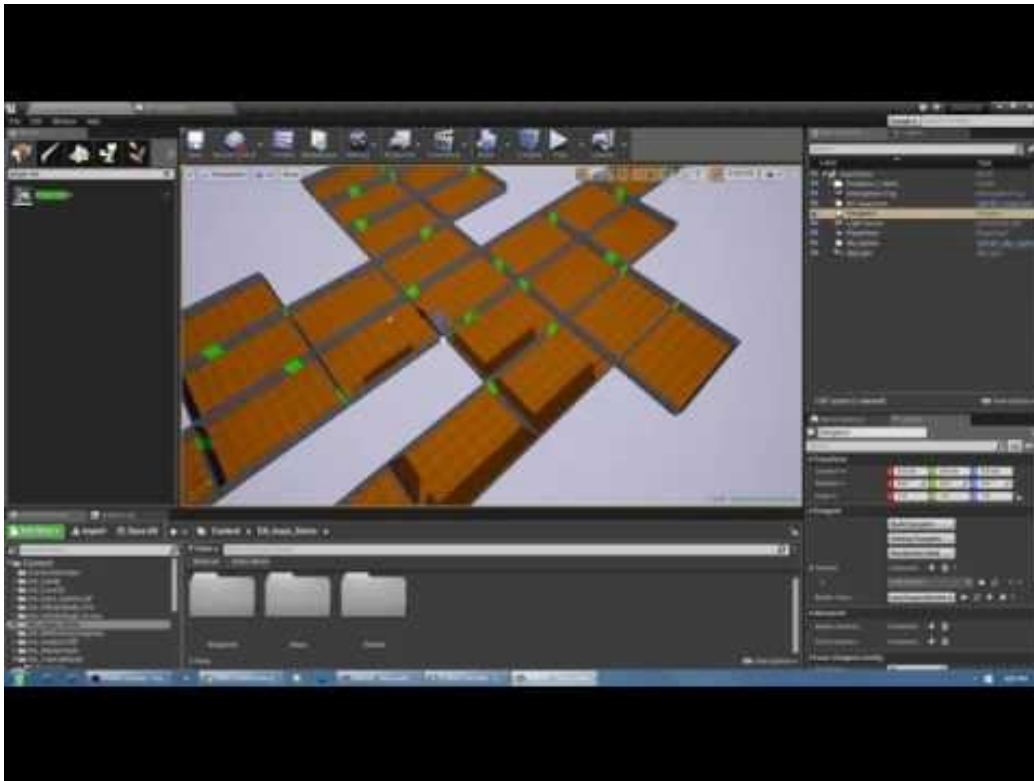




- Create a new project (e.g an FPS project)
- Install Dungeon Architect plugin
- Install Top-Down Sci-Fi pack to your project
- Copy the Content/DA\_SciFi\_K4 folder into your game's Content folder
- Top-Down Theme:
  - Open the demo map Content/DA\_SciFi\_K4/Maps/DATopDown
  - Select the Dungeon1 actor and click *Build Dungeon* from the Details window
- FPS Theme:
  - Open the demo map Content/DA\_SciFi\_K4/Maps/DAFPS
  - Select the Dungeon1 actor and click *Build Dungeon* from the Details window
- Oil Rig Theme:
  - Open the demo map Content/DA\_SciFi\_K4/Maps/DAOilRig
  - Select the Dungeon1 actor and click *Build Dungeon* from the Details window
- Tweak the parameters and rebuild for a different dungeon. Try painting the layout with the paint tool

## 20 Isaac Builder Demo Map

A demo map showcasing the Isaac builder

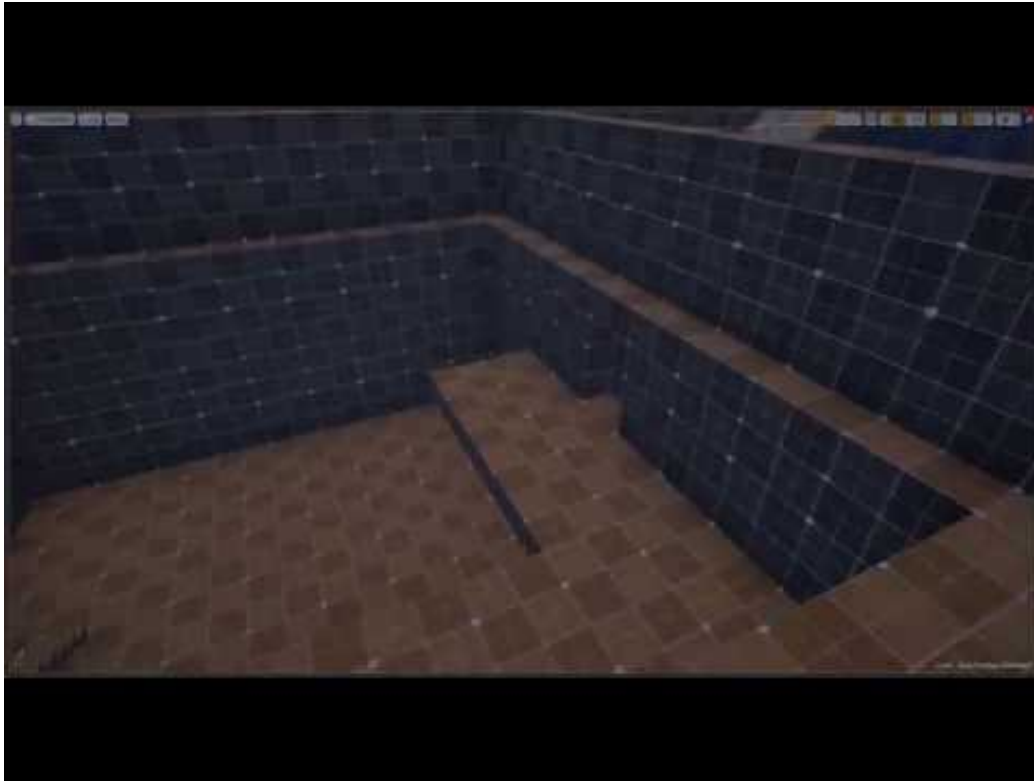


[View in Youtube](#)

- Create a Third Person Blueprint project
- Install Dungeon Architect plugin
- Copy the Content/DA\_Isaac\_Demo folder into your game's Content folder
- Open the map Content/DA\_Isaac\_Demo/IsaacDemo

## 21 Snap Builder Demo Map

A demo map showcasing the Snap builder



[View in Youtube](#)

**COMING SOON**

## **22 Support**

- [Forum Support Thread](#)
- [Website](#)