Tomb Escape

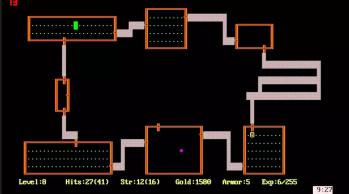
GROUP 7: Asad | Dolphin | Roger | Brandon

Week 4: Procedural Content Generation

Inspiration

Roguelike Dungeon Game





Game Mechanics

Exploration Step:

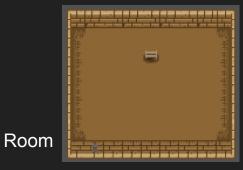
- Explore the tomb
- Experience various challenges and collect abilities that can be positive or negative
 - o Torch, treasure box, password puzzle, enemies, etc
- Try your best to remember the path

Escape Step:

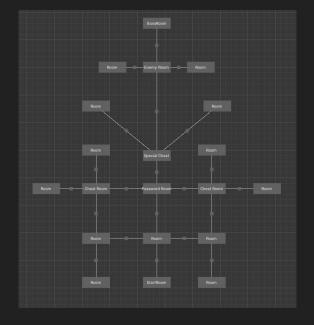
- Once you find the artifact, you have to escape the tomb
- Running back to the room where you start
- Don't let the boss catch you
- Use different abilities you have obtained during exploration. The more positive actions during your exploration, the better prepared you are to escape

Procedural Content Generation

- Graph-based PCG Dungeon Generation Algorithm
 - Each [Room] is represented as a [Node]
 - Each [Corridor] is represented as a [Edge]
 - The whole generation operates on a [Graph] data structure
- Algorithm will
 - Randomly select one node, instantiate a room prefab
 - Try create the edge of it's possible door position
 - Connect it to another node
 - Loop to find an acceptable result

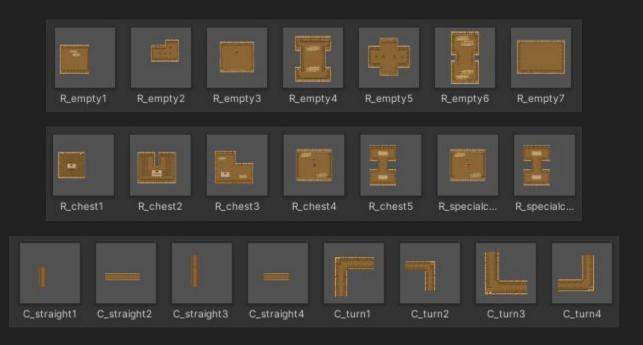


Corridor

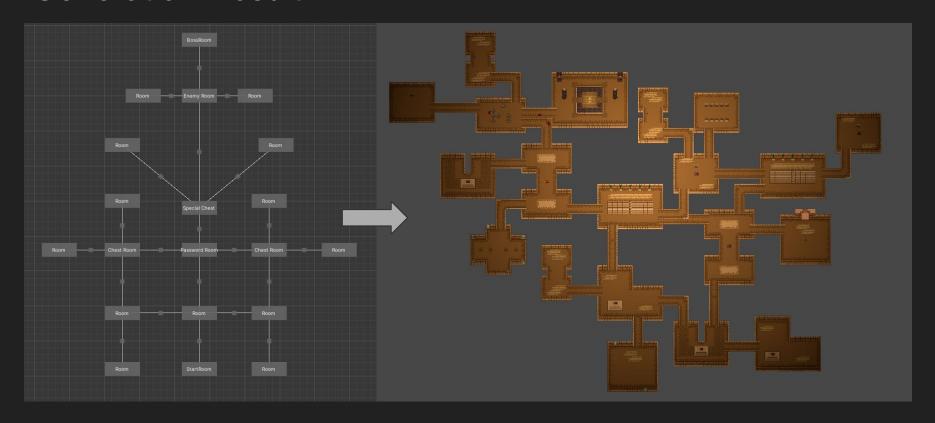


Room and Corridor Template

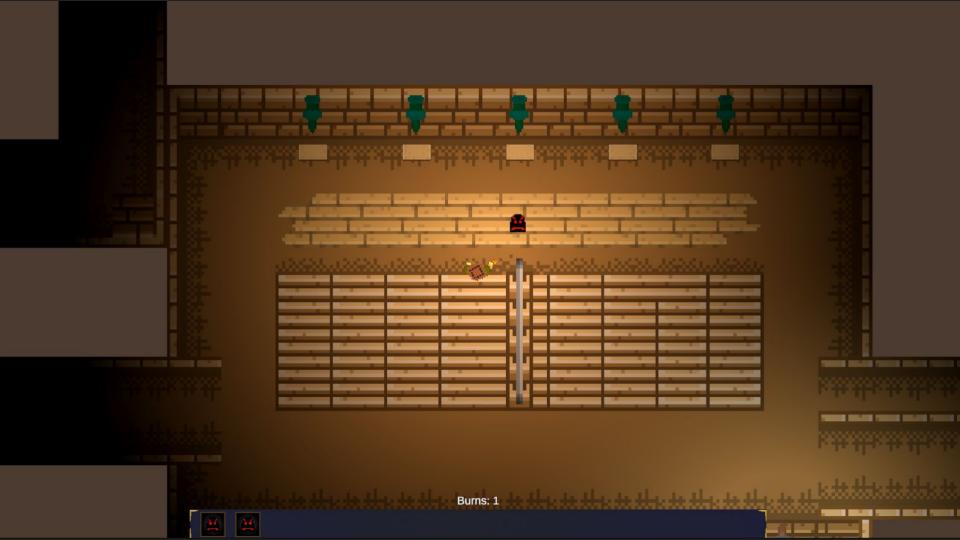
We provide a bunch of template for as Node or Edge

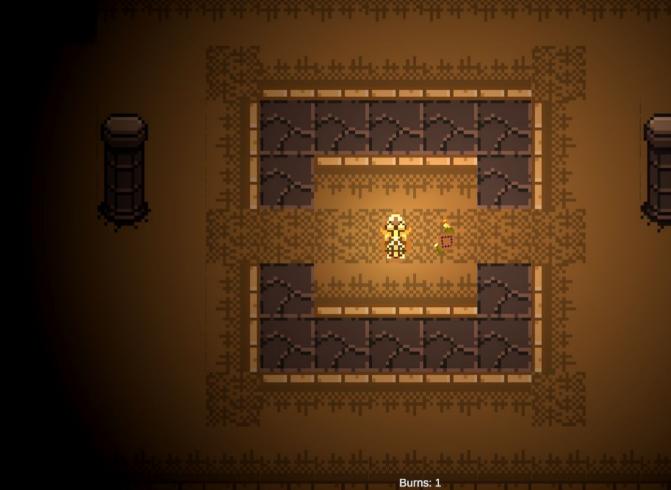


Generation Result













Try our GAME