



## OVERVIEW

Adventure in a procedurally generated, infinite world and collect pictures of a wide assortment of fauna and flora!

## PROCEDURAL GENERATION

### Mesh Generation & Coloration

- Grid-based point generation, then Delaunay Triangulation to convert points -> triangles
- Biomes implemented via 'height' and 'moisture' Perlin maps
- Gradual biome blend

### Flora Generation

- 3 Perlin maps for 6 types of flora
- Iterate through 1\*1 grid in every 80\*80 chunk
- Value on Perlin maps dictates if a plant in that grid should be generated

## ARTIFICIAL INTELLIGENCE

### Wildlife

- Perlin map for spawn placement and types
- Animal roaming behaviors with randomized locations
- Use senses to determine how to act around other animals
- Decisions on actions when no other animals present

## INDECISIVE STUDIOS

Anden Acitelli, Chuwen (James) Sun,  
Kolten Sharp, Josh White



## SCENES AND SERIALIZATION

### Scenes

- The Grove is the player's persistent storage
- Additive scene used to move player quickly between The Grove & Wilderness

### Serialization & Saving

- Utilizes C# XMLSerialization
- ".png" files saved in organized hierarchy, tracked by filenames serialized in ".xml"

