Design Document - Terrain Generation Tool

Features:

* Terrain Generation using algorithms
  + Noise
  + Diamond-Square
* Terrain brushes
  + Raise
  + Lower
  + Smooth
* Terrain Tools
  + Spline Rivers
  + Placing terrain features
    - Mountain
    - Canyon

UI:

UI I decide to use IMGUI

IMGUI features related to usability:

* Fonts
* Text Size
* Control over colours
* Lock UI

This allows for development of light and easy UI along with having UI be easily altered by users:

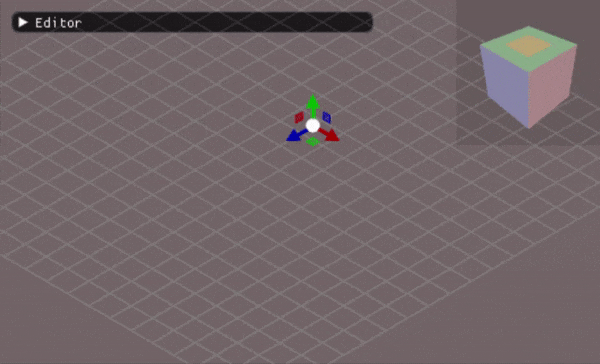
A screenshot of a computer

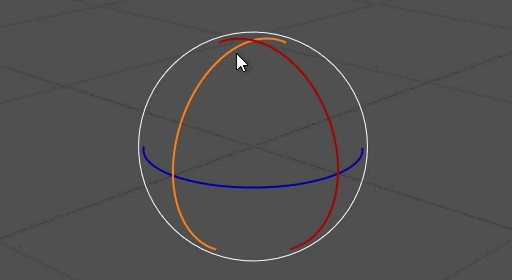
Description automatically generated

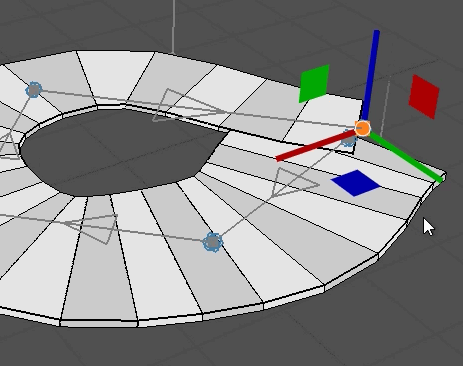
A screenshot of a computer

Description automatically generated

ImGuizmo builds on imgui enabling easy implementation of editor features:







And potentially even node based development but that increases complexity though a couple of terrain generation tools do it this way.

