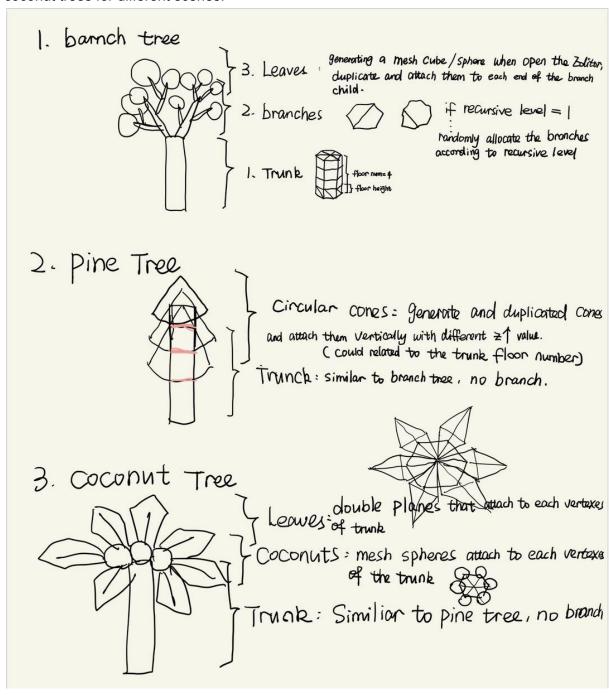
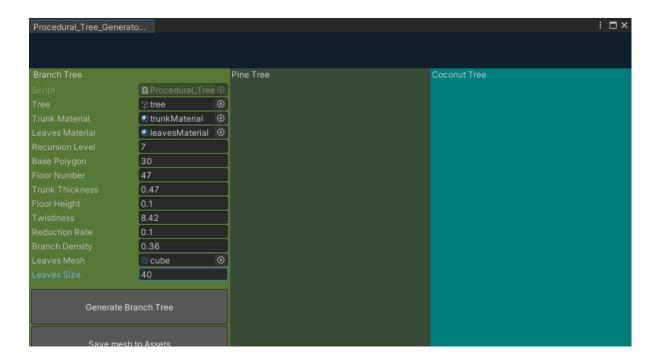
## PROCEDURE TREE GENERATOR Design work flow

Source Code: mzhai-UofC/Unity Procedure Tree Generator (github.com)

Initial idea: an editor tool that can separately generate random branch tree, pine tree, and coconut trees for different scenes.





Due to the time limit, only the branch tree generator worked.

Because I cannot use any external meshes from fbx, obj or any file formats, and primitives either. So all the mat materials, and the mesh cube used for generating leaves are created by scripts.

When open the window, an asset called cube will be generated and saved in the asset folder. Just make sure to select that cube.asset for the \_leavesMesh param in UI, Then click the "generate tree" button should work.

## References:

- -create a cube in mesh: <a href="https://blog.csdn.net/sinat-28962939/article/details/103128790">https://blog.csdn.net/sinat-28962939/article/details/103128790</a>
- -Tree Procedural Generation How does it work ? Unity3D YouTube https://www.youtube.com/watch?v=cHxR\_wtG5cw