

# Importing 3D Models

# Finding Free Models

- [TF3DM](#)
- [Google's 3D Warehouse](#)
- "3D Models" on Unity [Asset Store](#)
- [TurboSquid](#) free models
- [OpenGameArt](#) 3D section
- [Blend Swap](#)

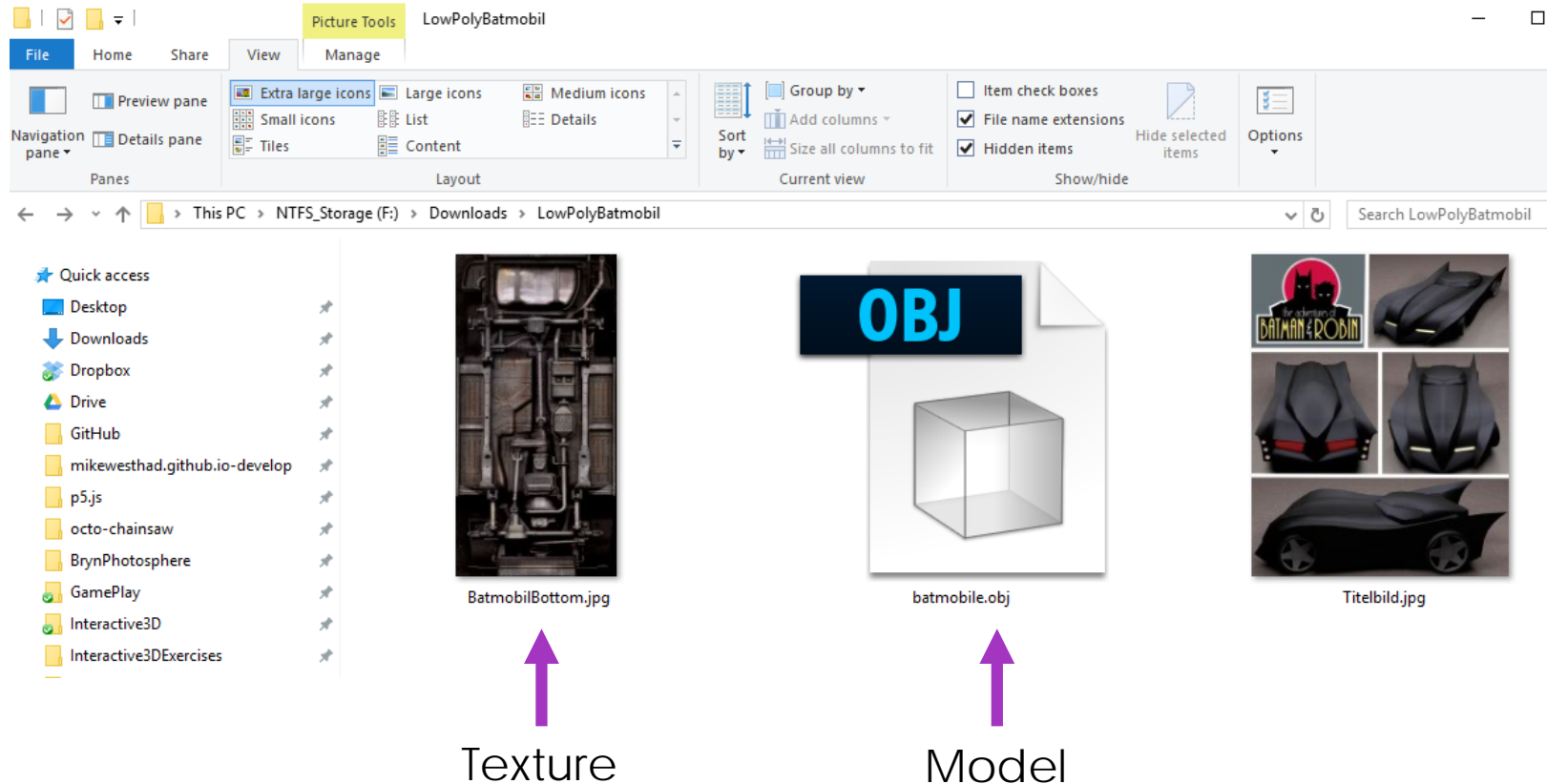


# Unity 3D

- Natively supports the following formats:
  - .fbx, .obj, .dae, .3ds, .dxf
- Proprietary formats:
  - Max, Maya, Blender, Cinema4D, Modo, Lightwave, Cheetah3D, Sketchup
  - Supported if you have the software installed
- [Importing guide](#)
  - Has tips for importing each format

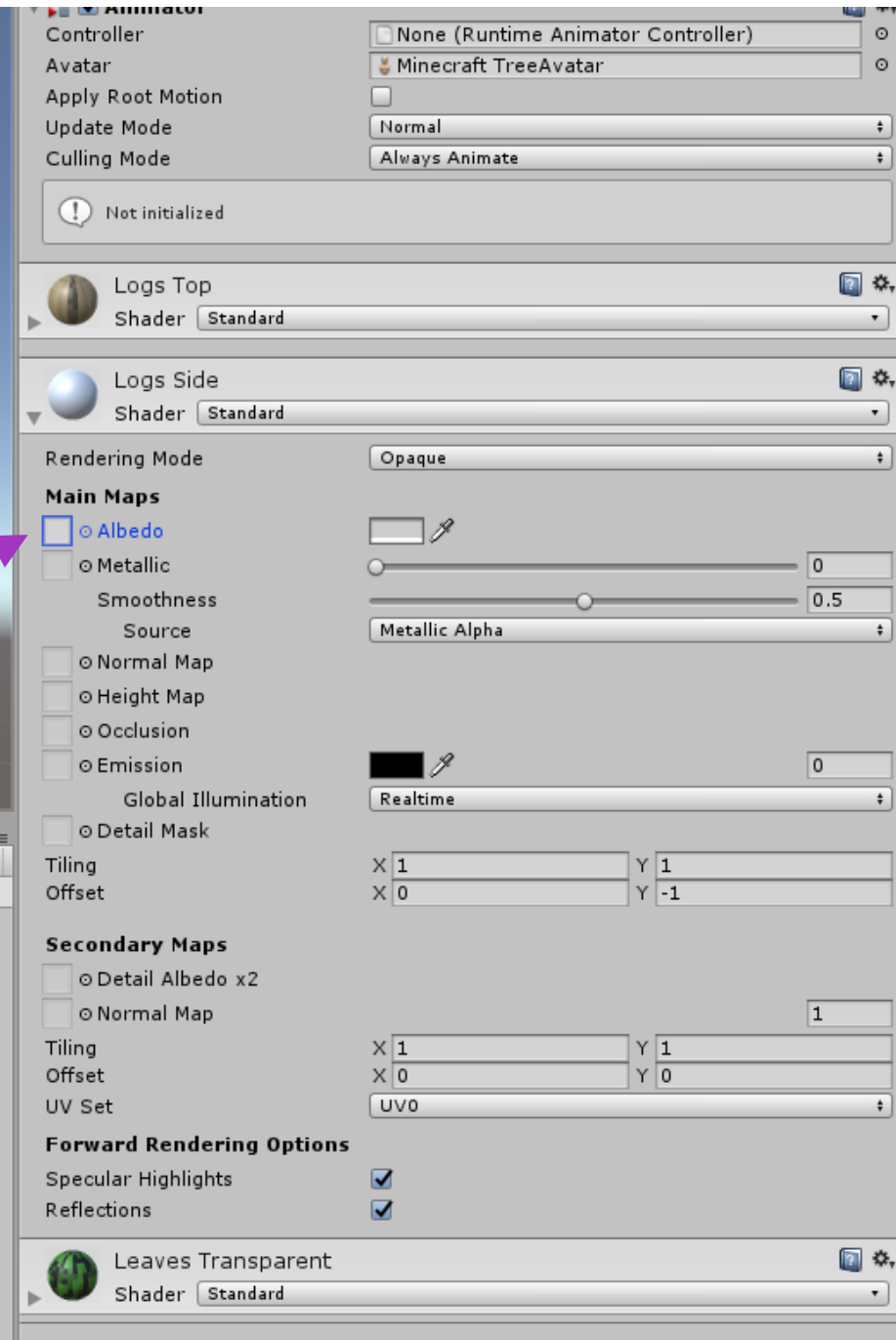
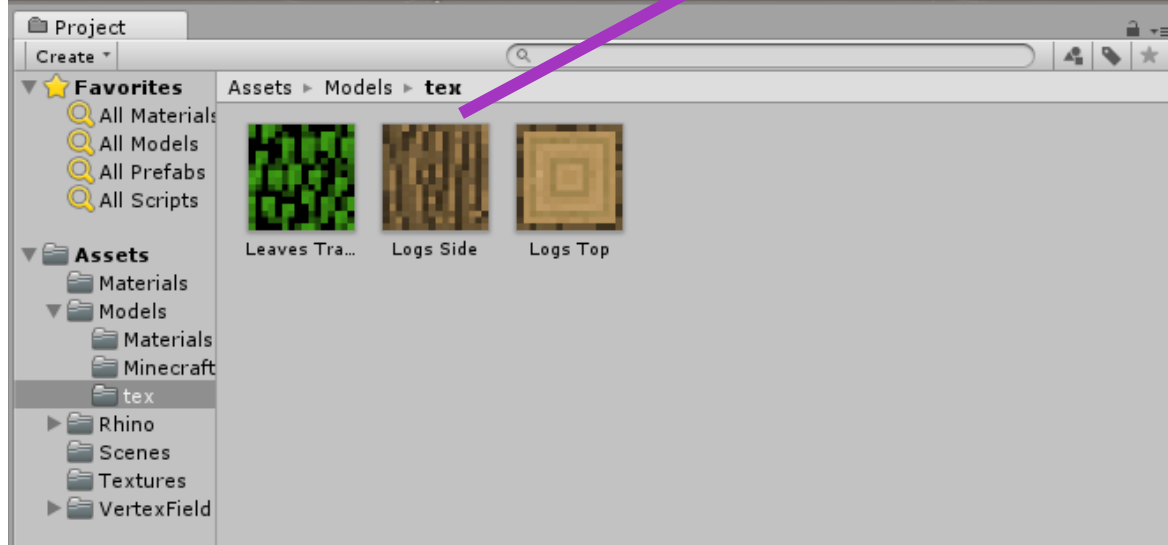
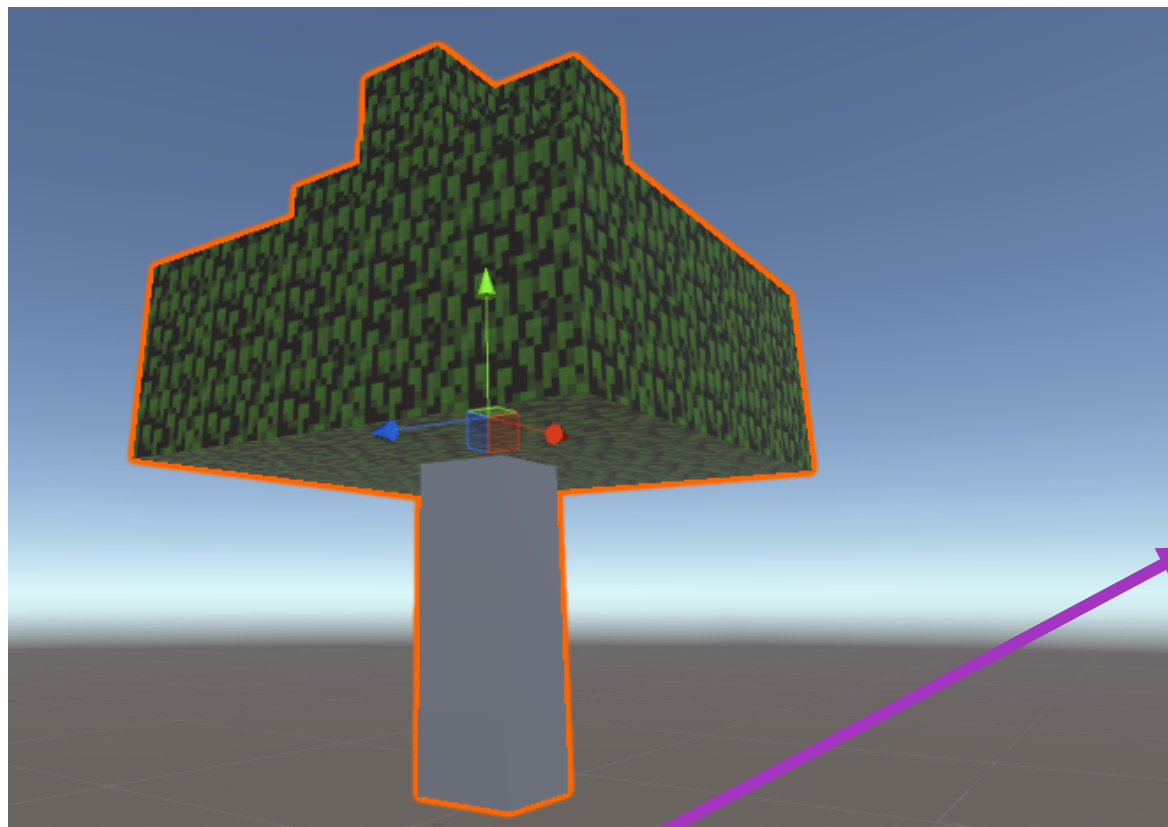
# Importing Textures

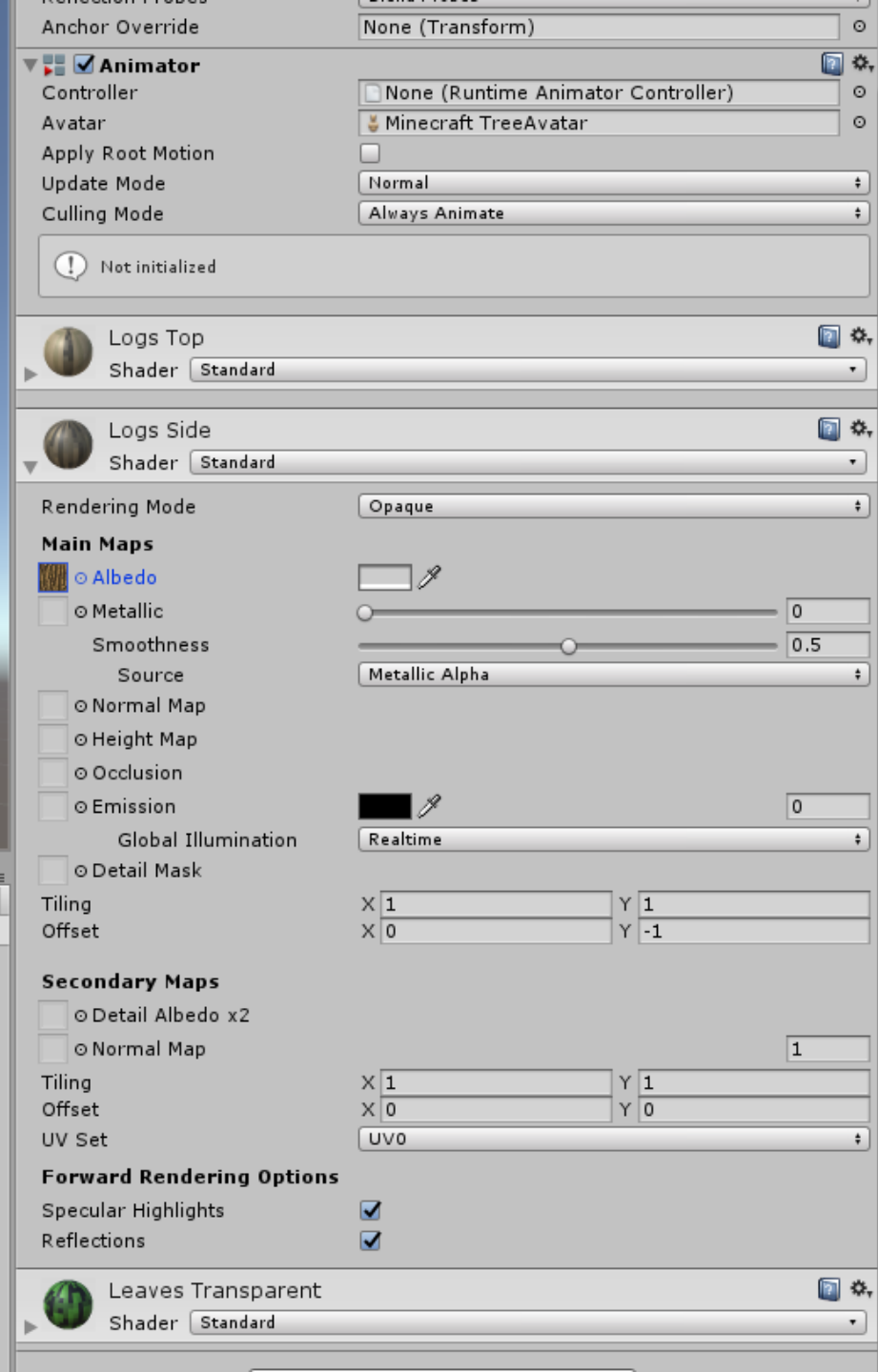
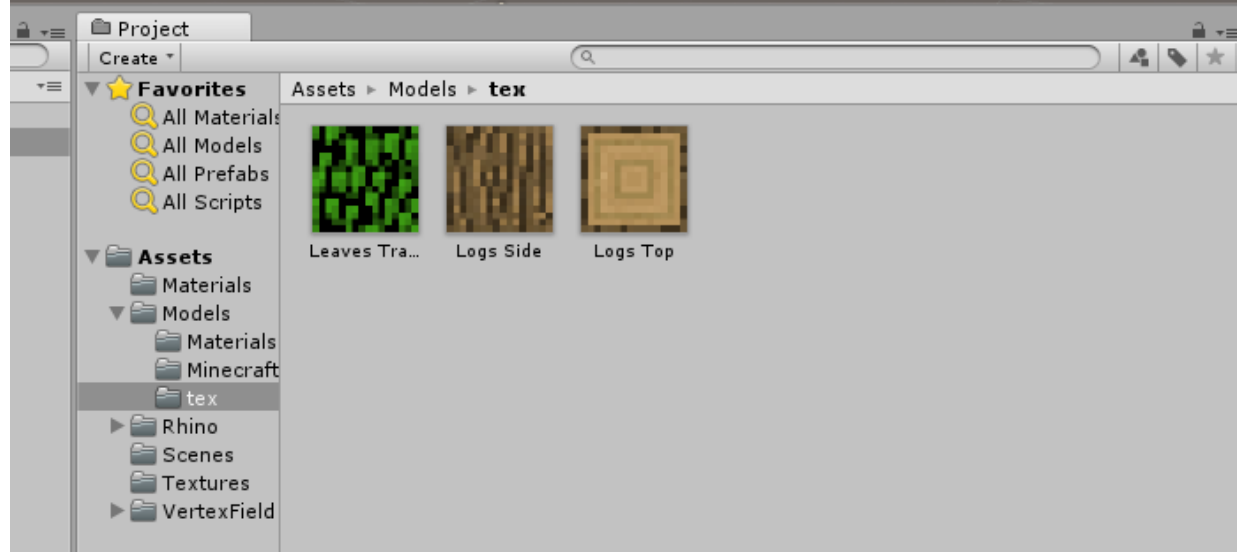
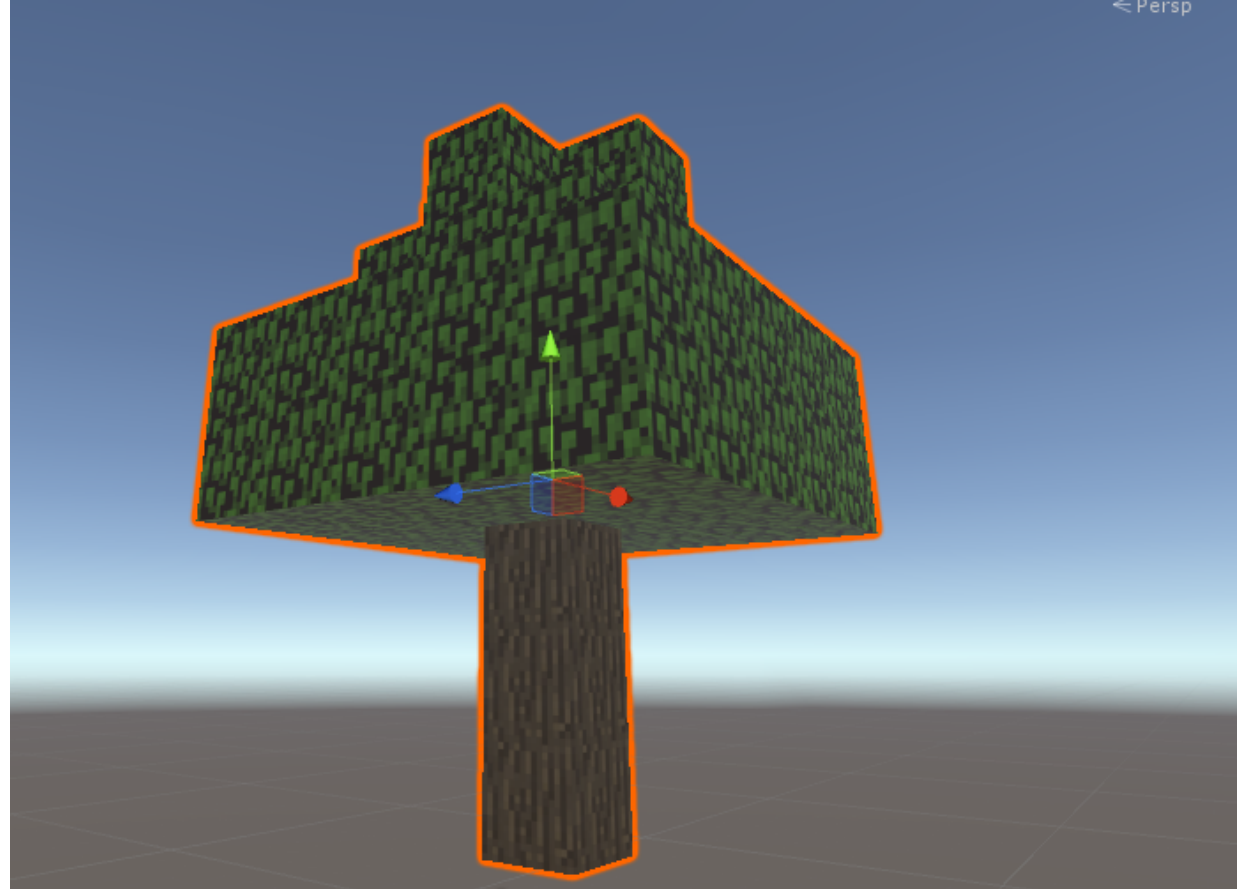
- When importing, be sure to bring the textures over:



# Importing Textures

- Textures won't always be imported properly.
- When that happens, manually assign the textures for the various materials on your model.

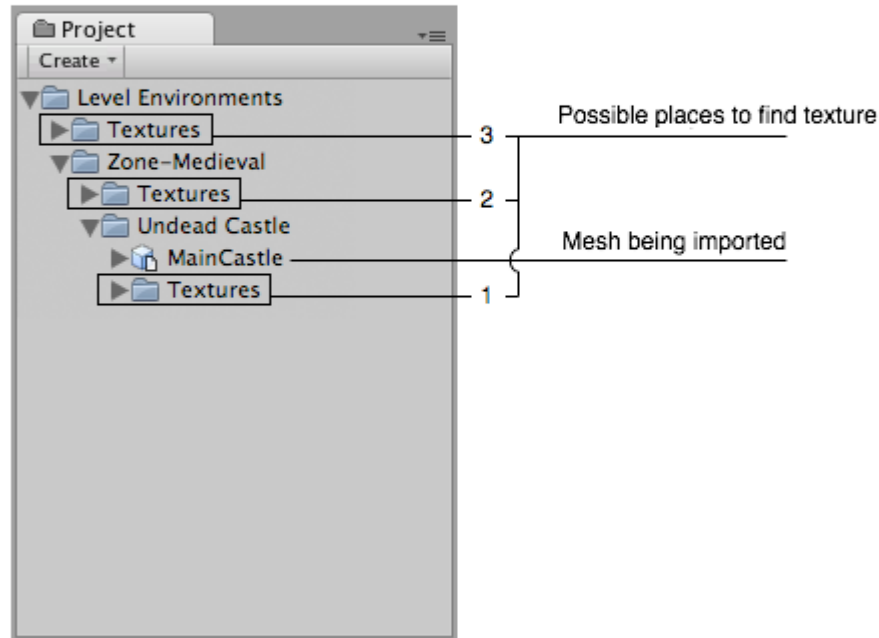




# Importing Textures

## Textures

Unity will attempt to find the textures used by a mesh automatically on import by following a specific search plan. First, the importer will look for a sub-folder called Textures within the same folder as the mesh or in any parent folder. If this fails, an exhaustive search of all textures in the project will be carried out. Although slightly slower, the main disadvantage of the exhaustive search is that there could be two or more textures in the project with the same name. In this case, it is not guaranteed that the right one will be found.



Place your textures in a **Textures** folder at or above the asset's level





# Pain Points

- High resolution meshes
- Textures/materials not importing



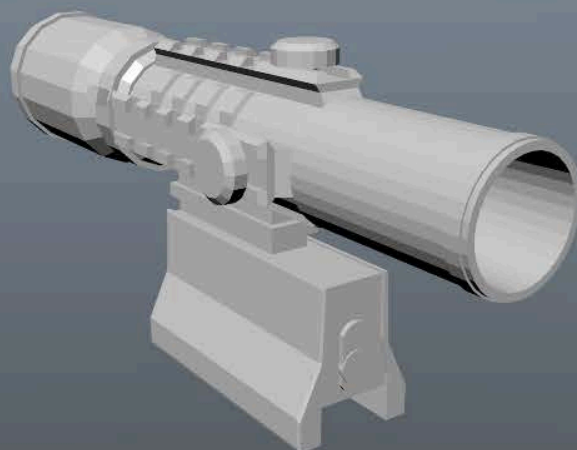
## Leupold Mk4 CQ/T

**High Poly**



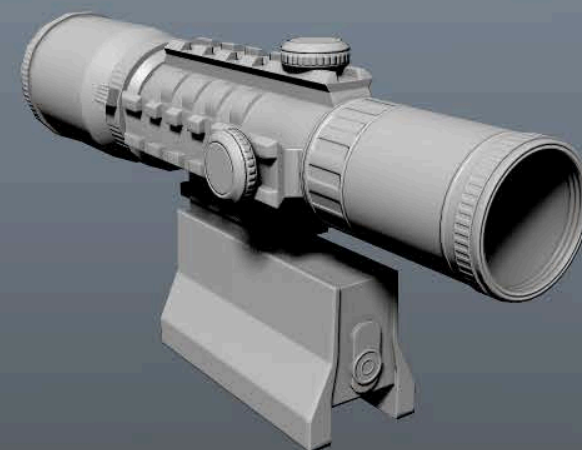
**373 414 Polygons**

**Low Poly**



**1542 Polygons**

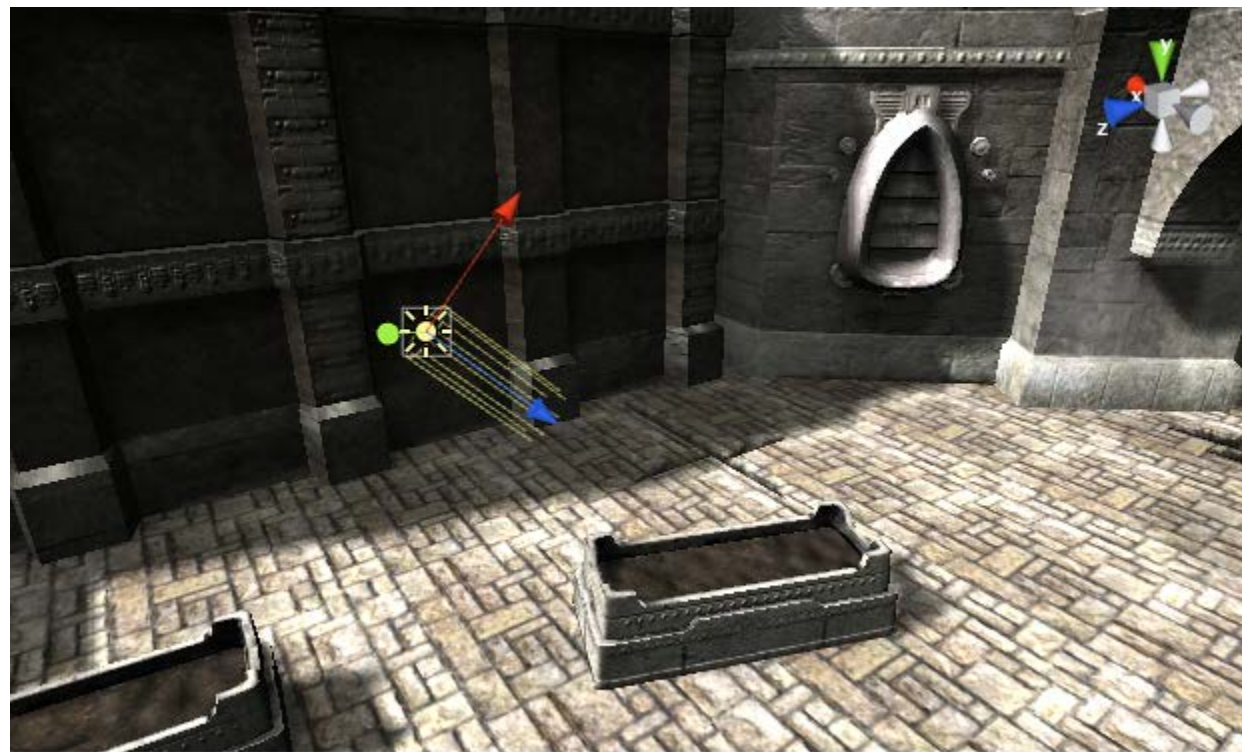
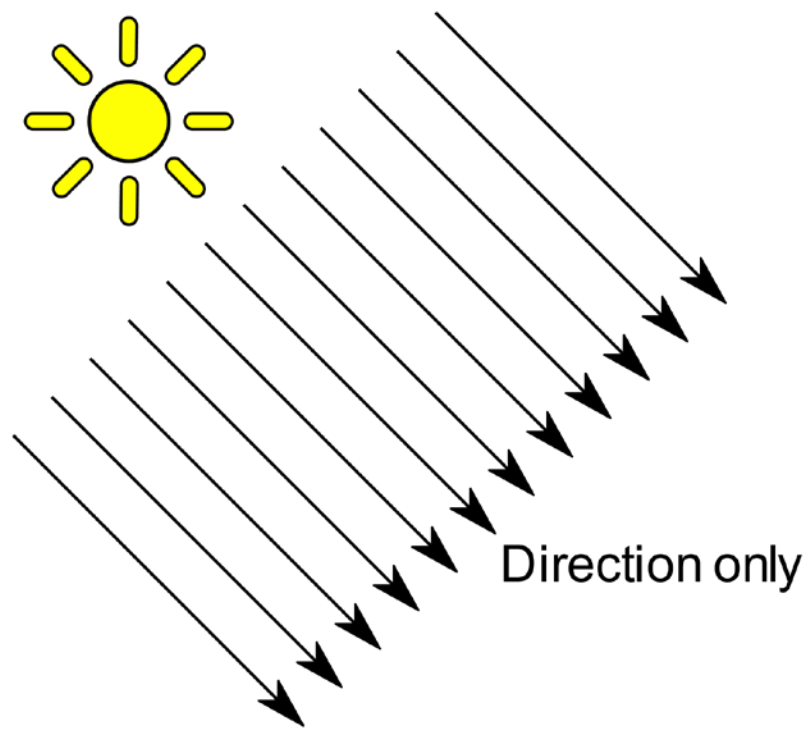
**Low Poly + Normal Map**



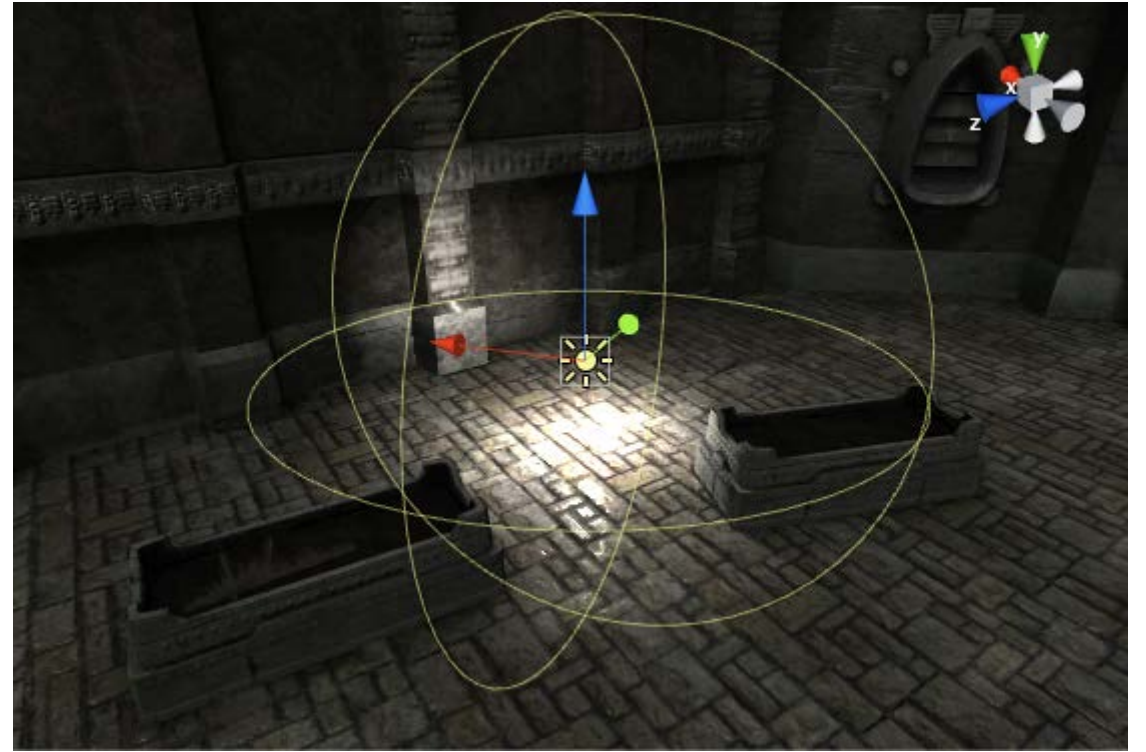
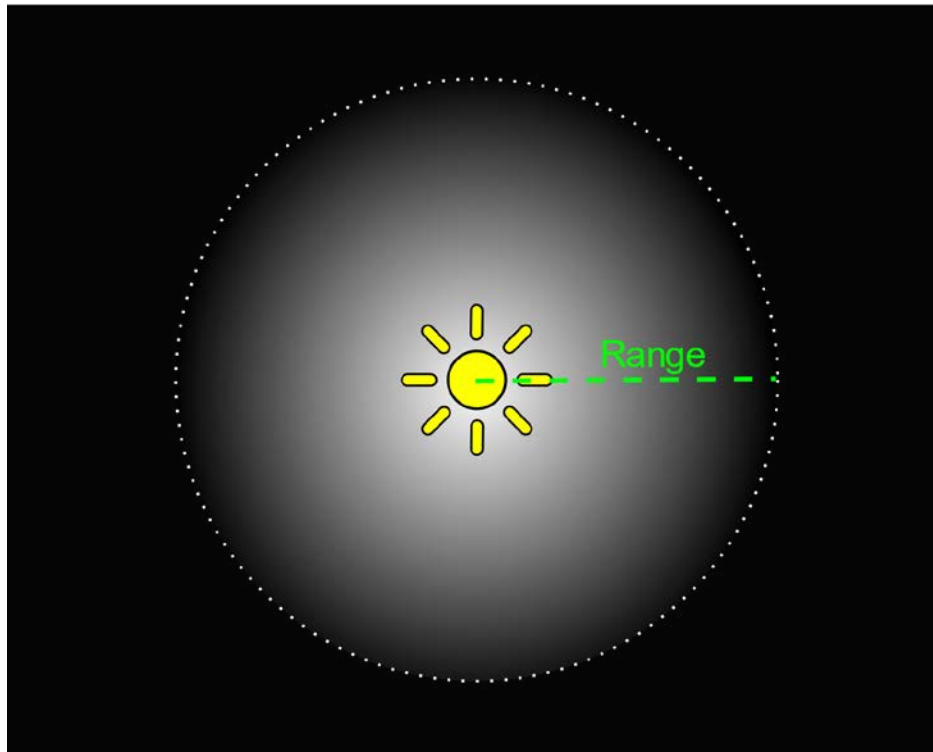
**1542 Polygons**

Lights

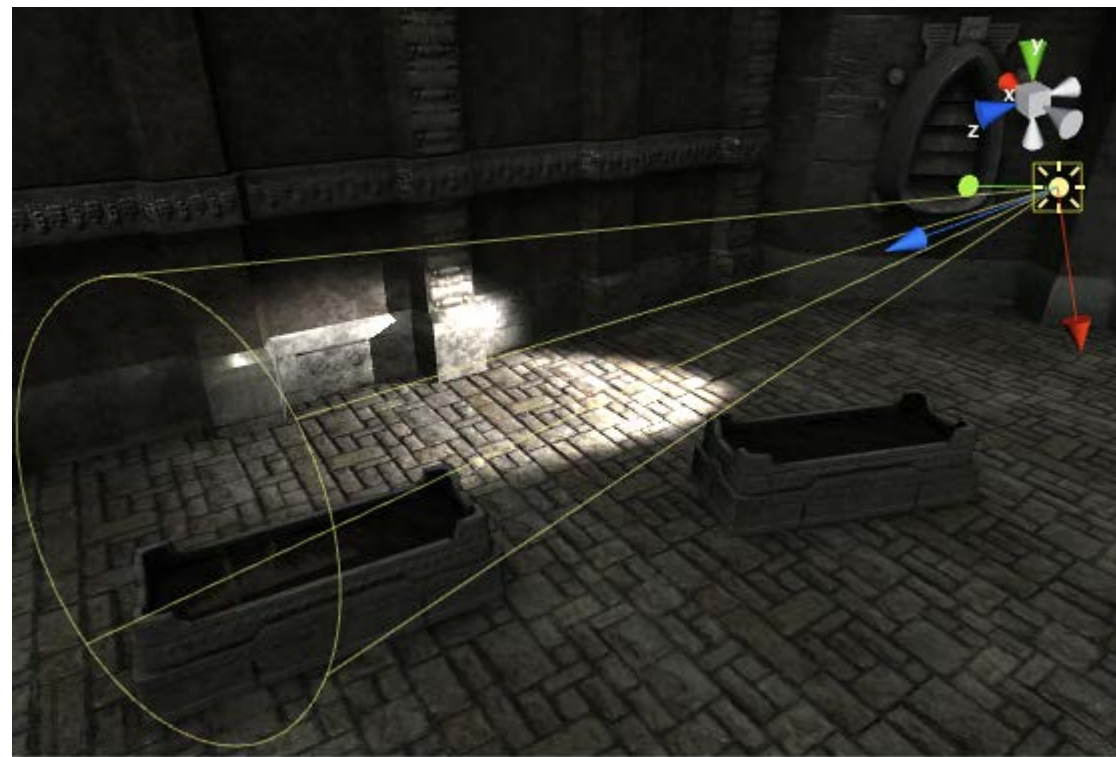
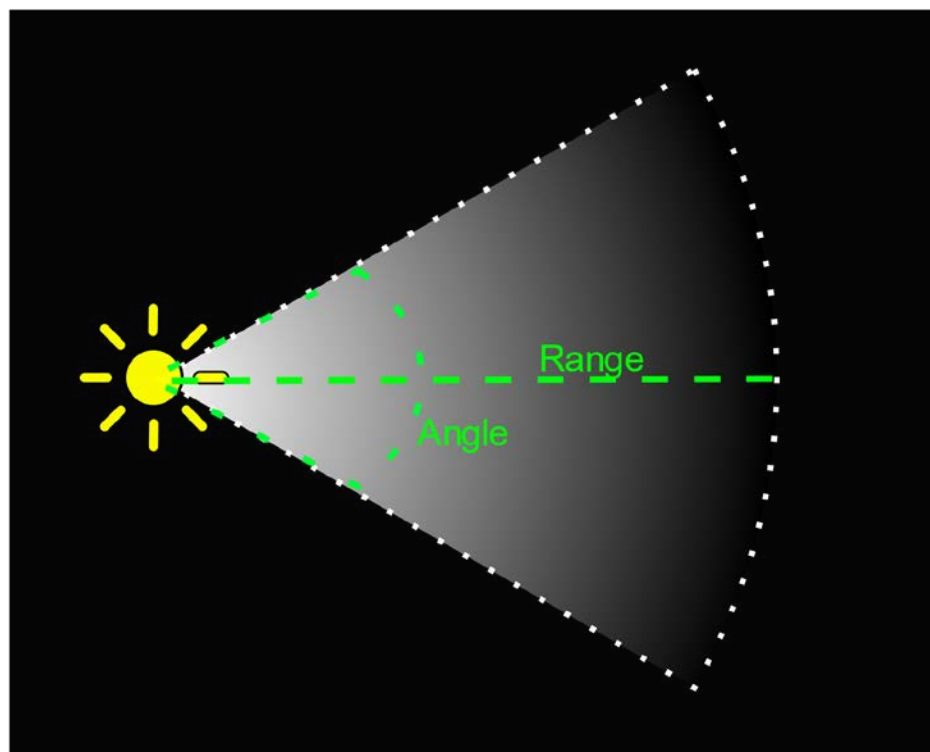
# Directional Light



# Point Light



# Spot Light



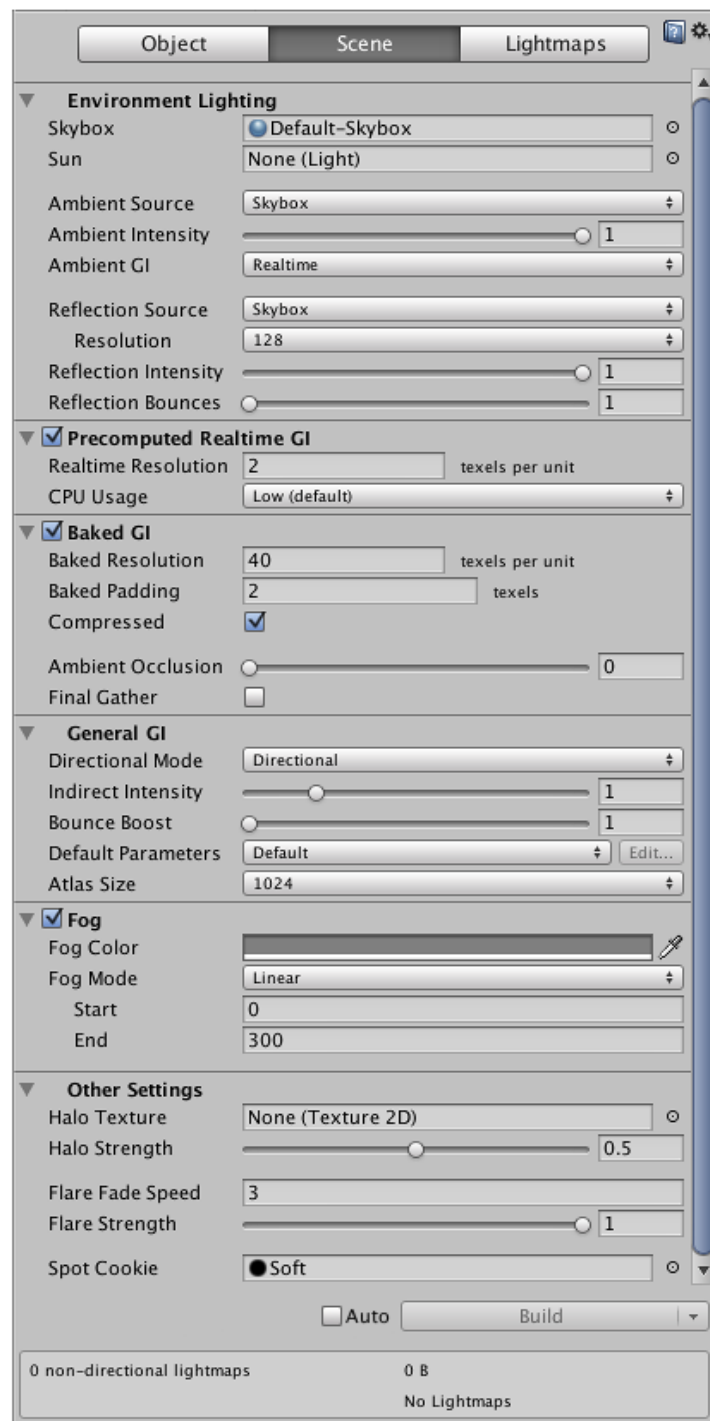
## Ambient light

Ambient light is light that is present all around the scene and doesn't come from any specific source object. It can be an important contributor to the overall look and brightness of a scene.

Ambient light can be useful in a number of cases, depending upon your chosen art style. An example would be bright, cartoon-style rendering where dark shadows may be undesirable or where lighting is perhaps hand-painted into textures. Ambient light can also be useful if you need to increase the overall brightness of a scene without adjusting individual lights.

Ambient light settings can be found in the [Lighting window](#).

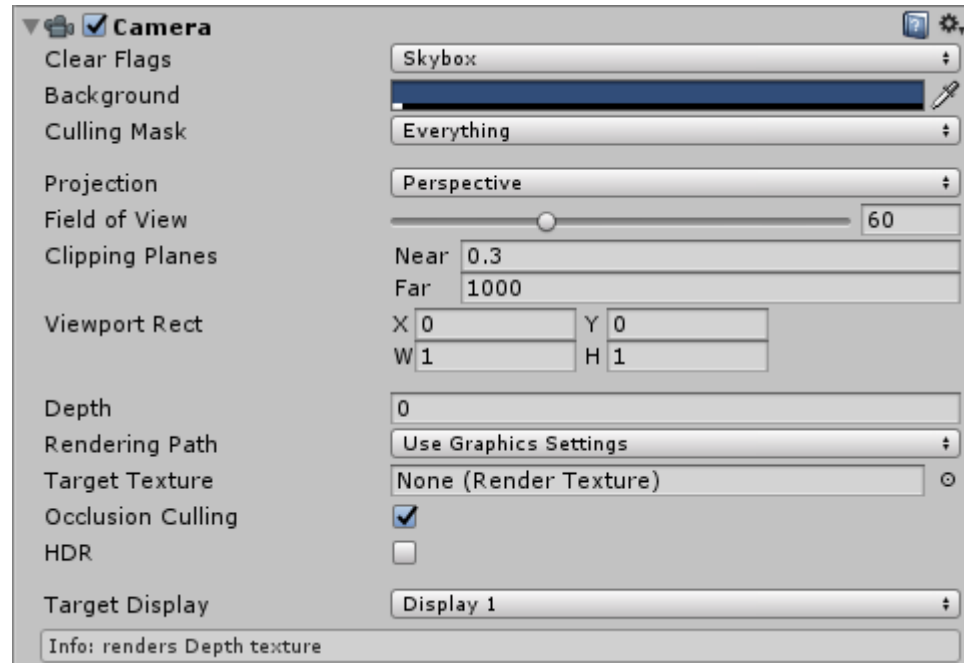




## Ambient Lighting

- Window -> Lighting
- Scene Tab
- Things to adjust:
  - Skybox
  - Ambient Source
  - Ambient Intensity
  - Fog





## Background

- When you aren't using a skybox:
  - Select your camera
  - Adjust the background color

# Hotkeys and Controls

# Unity References

- [Scene View Navigation](#)
- [Positioning GameObjects](#)