Lecture Exercise 3

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- 1. What does 'set dressing' refer to in the context of building a level?

 Set dressing refers to cosmetic elements that are added to a level to make it more visually appealing. This includes things like props, lighting, and other visual elements that do not affect gameplay.
- 2. What is a static mesh and why label some meshes as static?

 A static mesh is a mesh that does not move or change during gameplay. This is useful primarily for performance optimizations, especially when it comes to rendering / lighting conditions. By marking a mesh as static, you are telling Unity that it does not need to do some computations that would be necessary if the mesh were dynamic.
- 3. What is a heightmap used for? A heightmap is used to represent the elevation of a terrain. It is a 2D array of values that represent the height of the terrain at each point. This is useful for generating realistic terrain, as well as for physics calculations.
- 4. How do billboards, which are 2d visuals, give the effect of a 3D model?

 Billboards are 2D visuals that always face the camera. This gives the illusion of a 3D model because the billboard is always facing the camera, so it appears to be a 3D object. This is useful for things like trees, grass, and other objects that are far away and do not need to be rendered in full 3D.
- 5. What is the advantage of whiteboxing environments during game development? Whiteboxing allows for easy and quick prototyping of a level or game. It is also a good first step for game development, as further enhancements and details (set dressing) can be iterated on top of the whitebox.