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Professor Rodriguez

Final Project Review: Shapes and Image Selection



Explain which 3D shapes could be used to replicate the selected 2D image. Identify three to five major objects from the image to translate into basic shapes. Explain how you would use as many different shapes as possible to create those objects.

Identify at least one object that would need multiple shapes to replicate. Consider the spoon in the example involving kitchen items and how two shapes, a sphere and a box, were used to construct the object. When you look at the image you are working with, where do you need to use this strategy to make a more accurate replication?

Discuss areas where the image could be simplified in a 3D replication. For example, what

objects would you remove? Are there objects you would combine using a single shape?

In this desktop scene, most items can be broken down into fairly few shapes. The pencils/pen, the notepad, and the keyboard can all be created with simple shapes. For the pencils, you can use thin cylinders with a small, tapered cylinder attached to represent the shaved end. For the notepad, a plane can be used, but a cube will likely work better. For the spiral on the notepad, you can use a single cylinder, or multiple toroids to represent each ring. The keyboard can be represented by a plane with multiple boxes on it serving as the keys, or even a flat box with multiple boxes showing the elevation of the keys. For the coffee mug, especially at this angle you can use a cylinder with a half-toroid attached to the side for the handle.

To keep things simple, I would remove the pinecone and the leaves immediately as they are too complex. I think there are too many angles to simply represent them with a singular shape. If I wanted to avoid using too many objects for the pens, perhaps I could use only cylinders, or even extend the wider end of the tapered cylinder to keep it at one object instead of two. The keyboard can also be flattened into a singular cube perhaps with a texture acting as the keys instead. It could be difficult to represent the coffee mug with only a singular cylinder, unless it was being viewed from overhead like in the image. If this was the case, you could place a texture indicating that it has coffee inside.