REU Modeling Course - Part 2

Blender

More Modeling



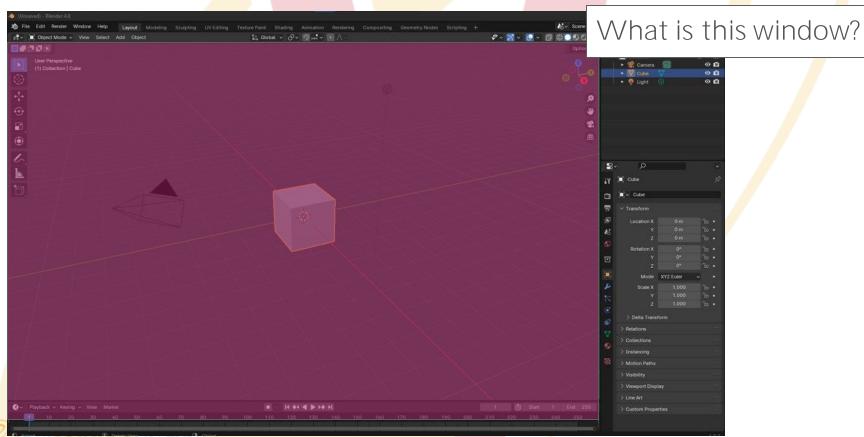


Workshop Workflow

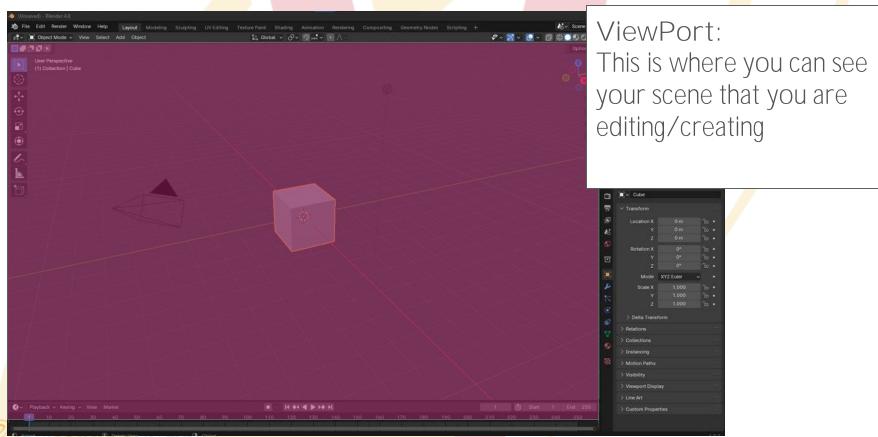
- Review Previous Session
- More Modeling Operations
- Organizing Scenes/Objects in Blender
- Today's Mini Creation



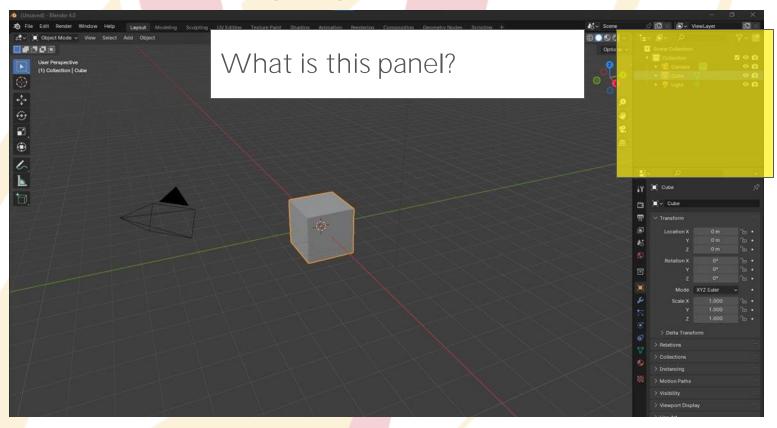


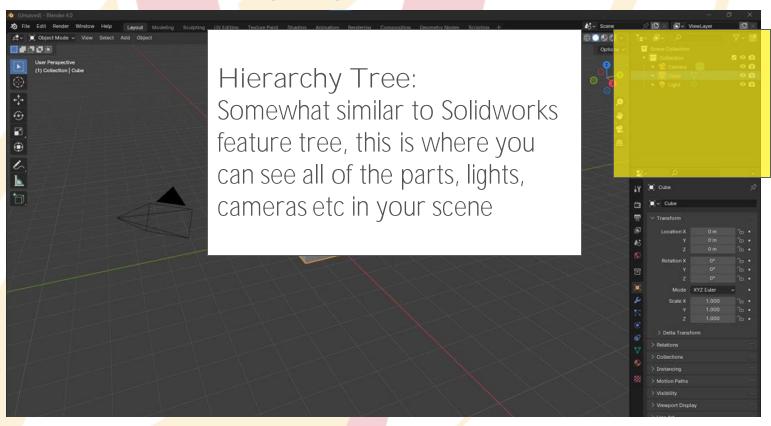


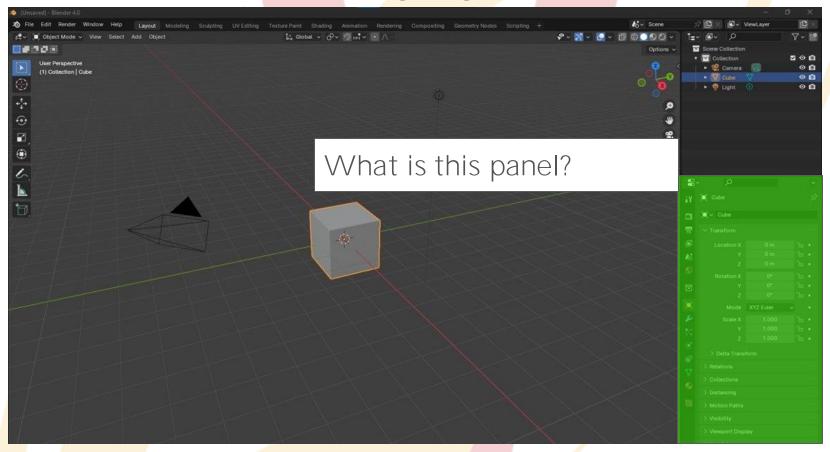


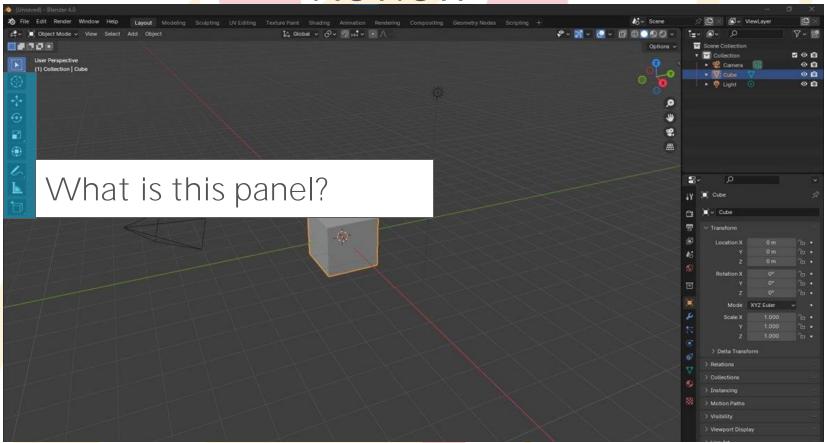


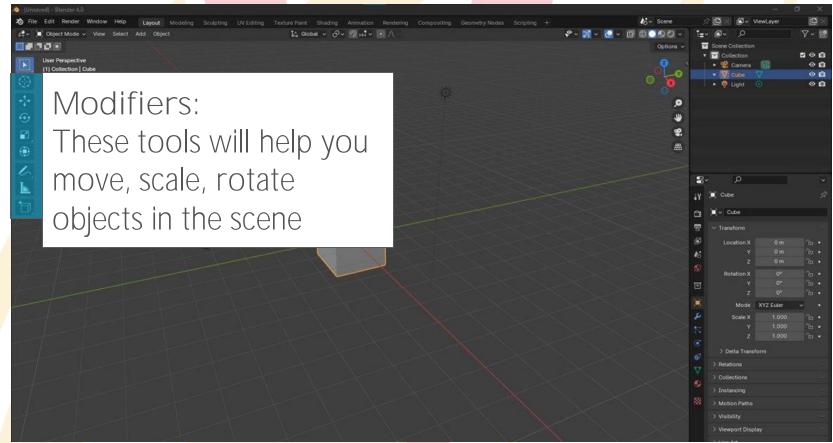




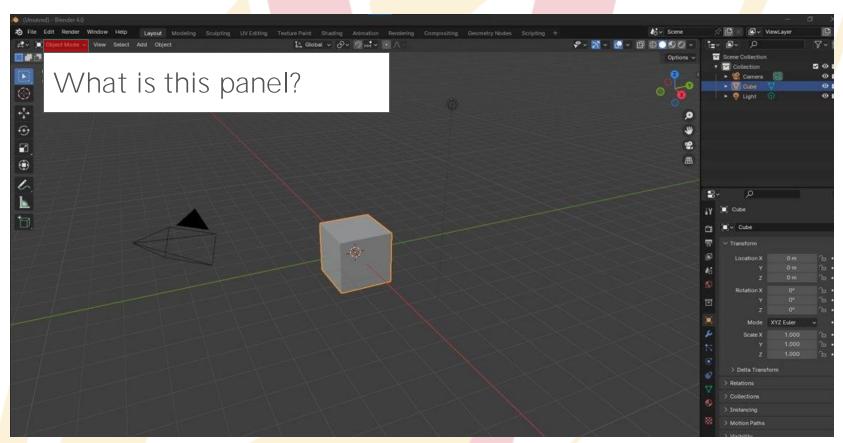


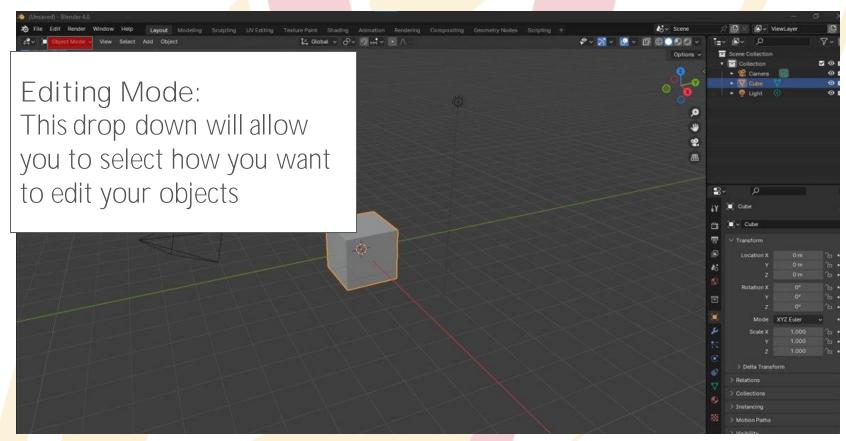






Areas



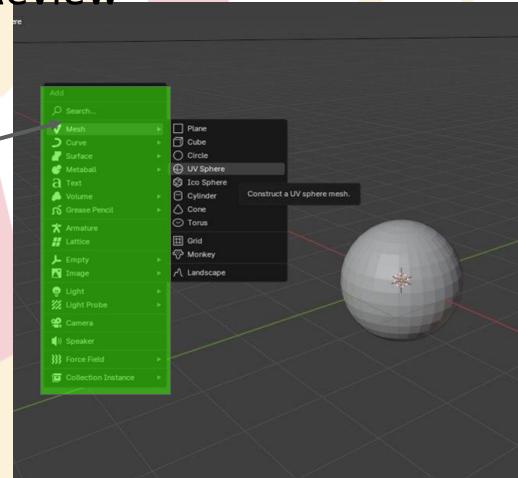




- Shift + A is a crucial hotkey!
- (Open Add Menu) Shift + A
- Add Menu > Mesh > UV Sphere

Hotkey Review:

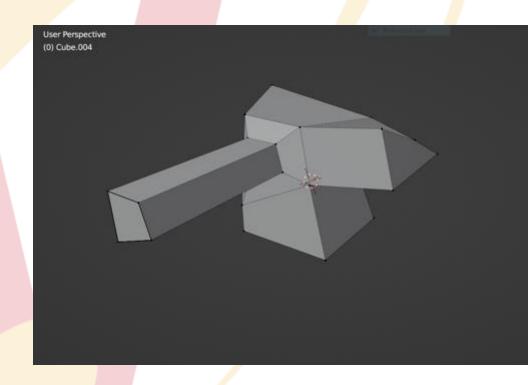
- Move: G
- Scale: S
- Rotate: R
- Switch Editing Mode: Tab





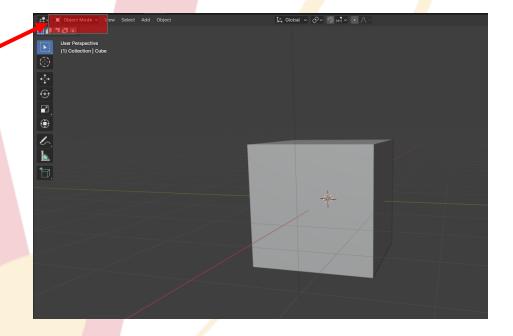
More Vertex Operations

- The following tools were used to make this shape from a simple cube:
 - Extrude
 - Bevel
 - Edge Slide

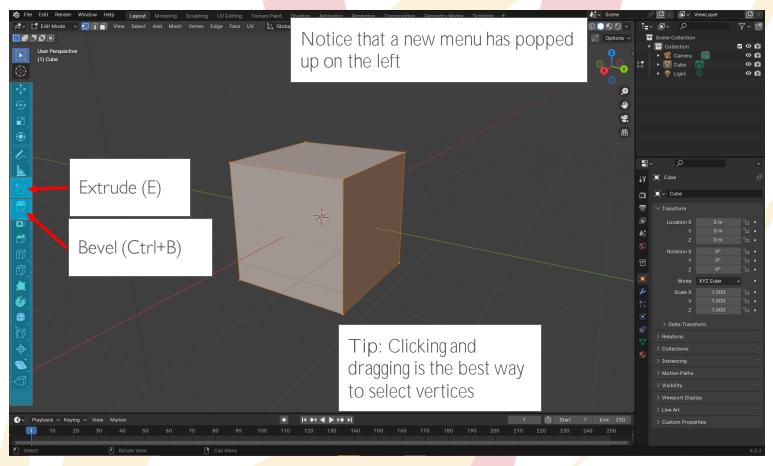


Vertices: Extrude

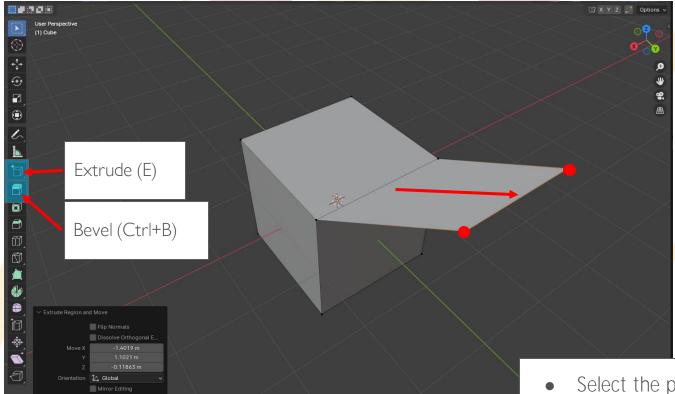
- Add a cube to scene
- Enter "Edit Mode"



Vertices: Extrude



Vertices: Extrude



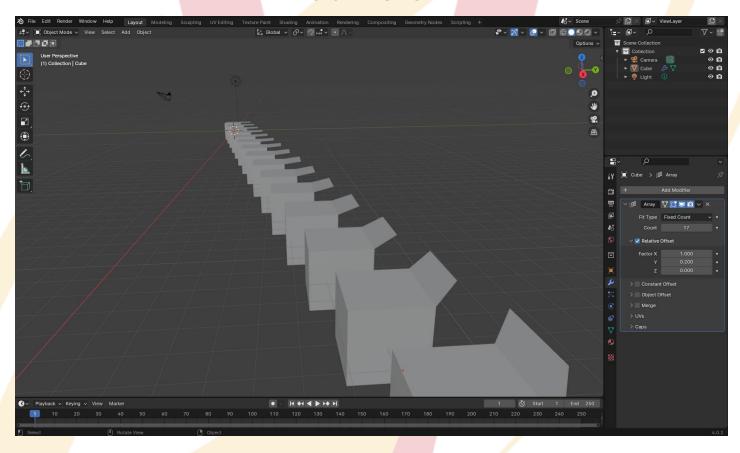
- Select the point(s) to edit
- Press E for extrude
- Move mouse to extrude points
- Now try to add a bevel



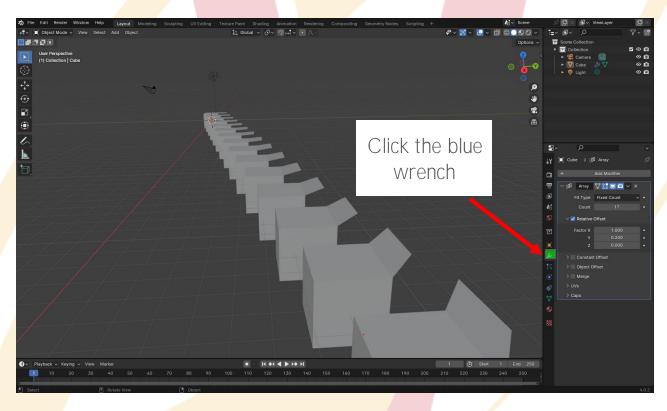
Break Time!



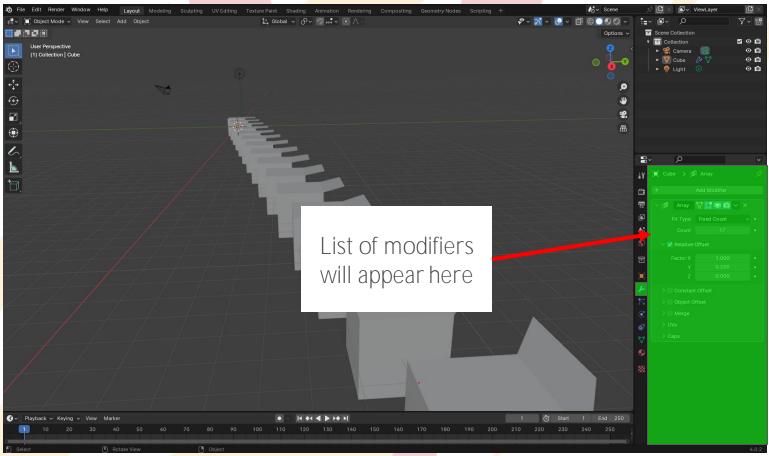
Modifiers!



Modifiers: Menu Introduction



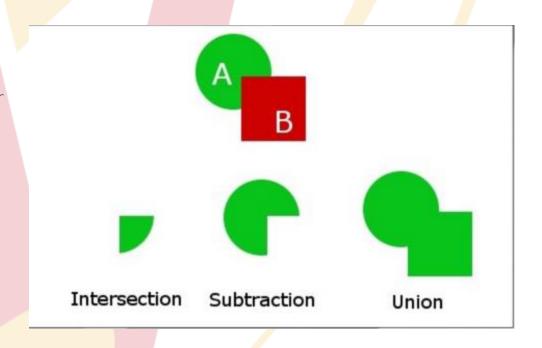
Modifiers: Menu Introduction

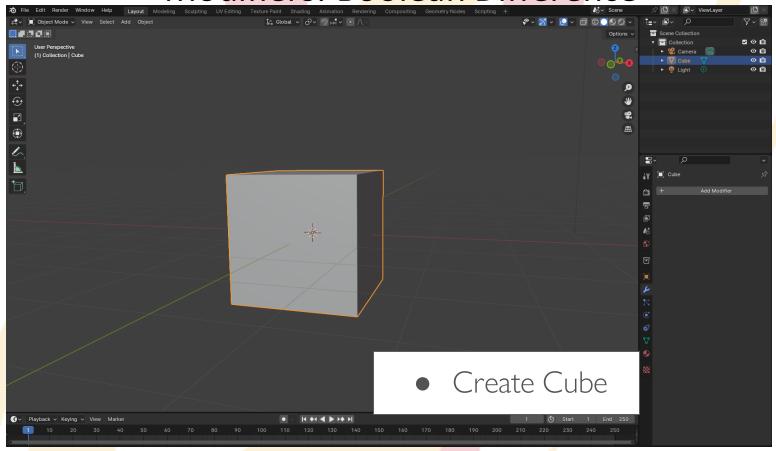


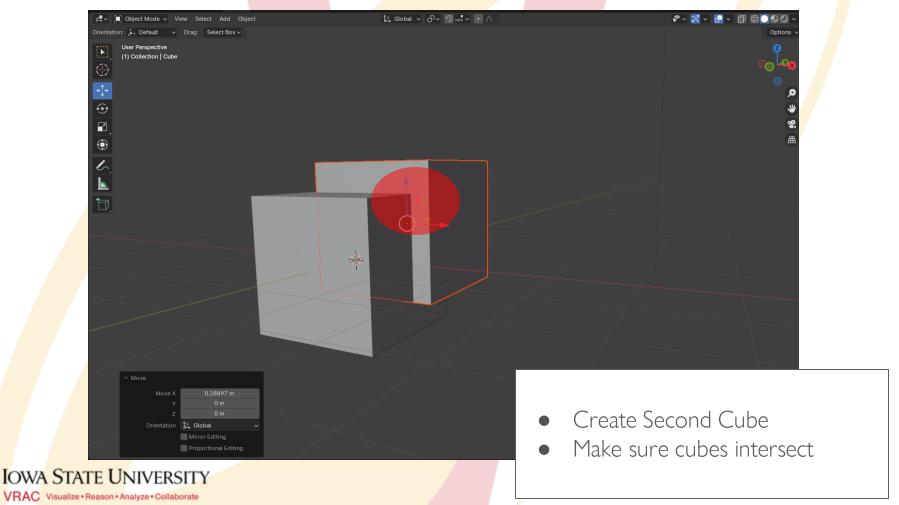
Boolean Modifiers

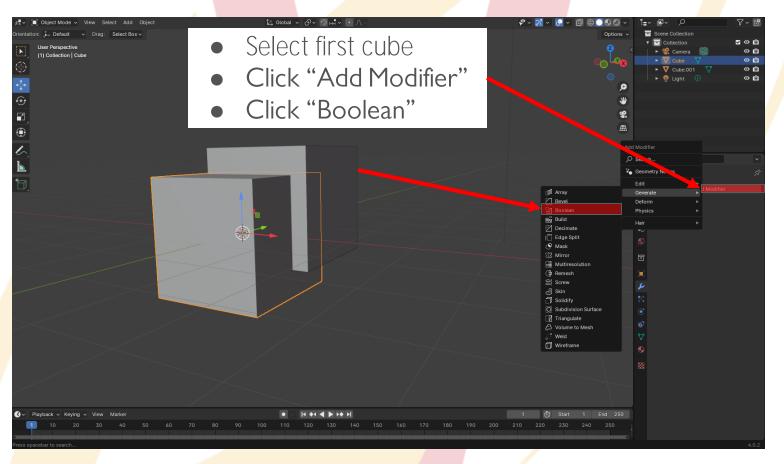
Boolean Modifiers

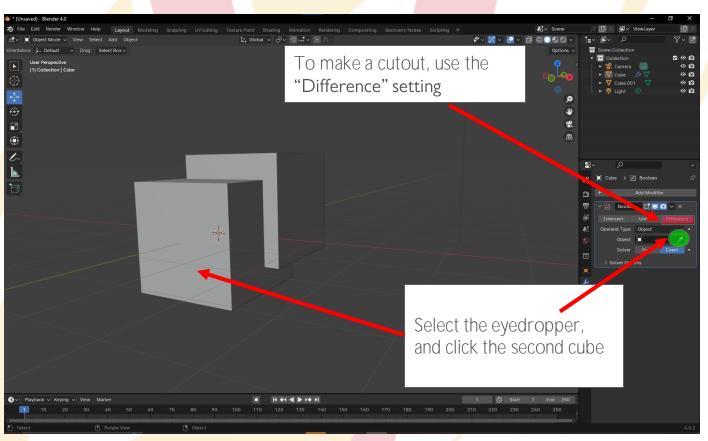
- Booleans let you subtract, add or intersect an object's geometry onto another object (merging)
- O Usually used for objects that will not be deformed (mechanical)
- Drawbacks:
 - Geometry cannot be deformed

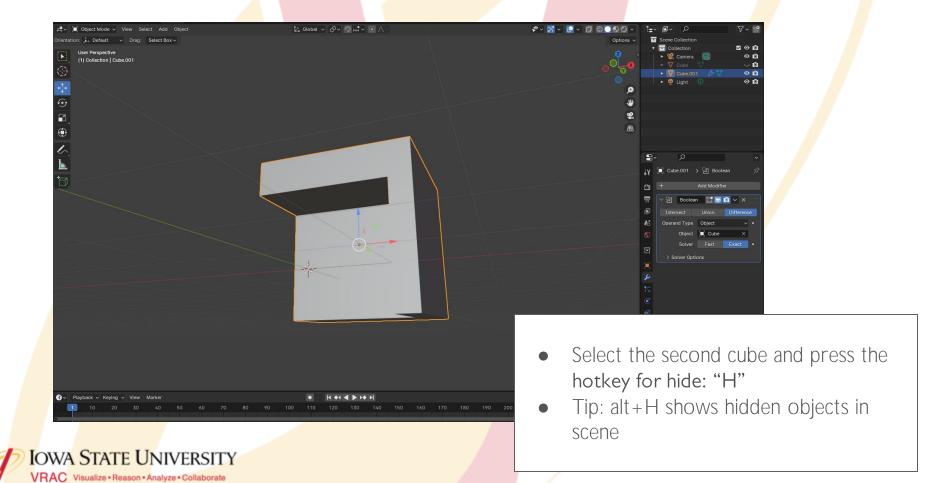




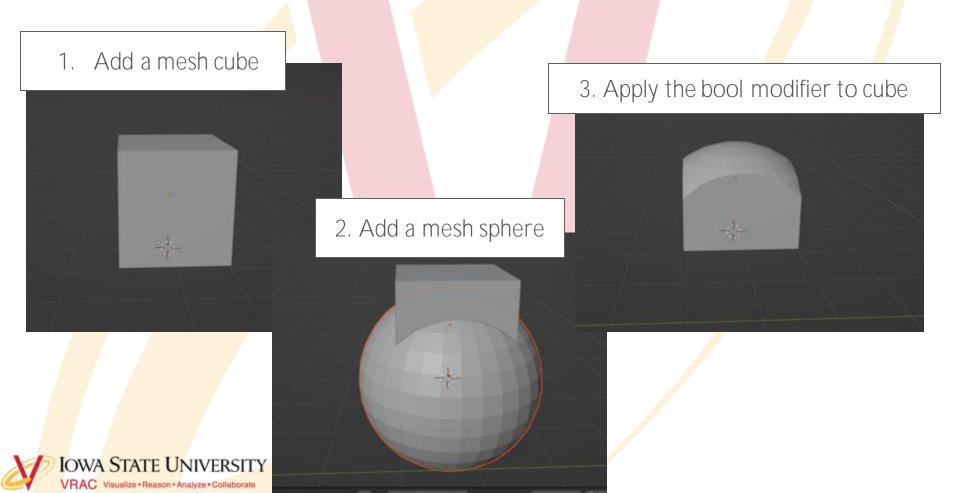






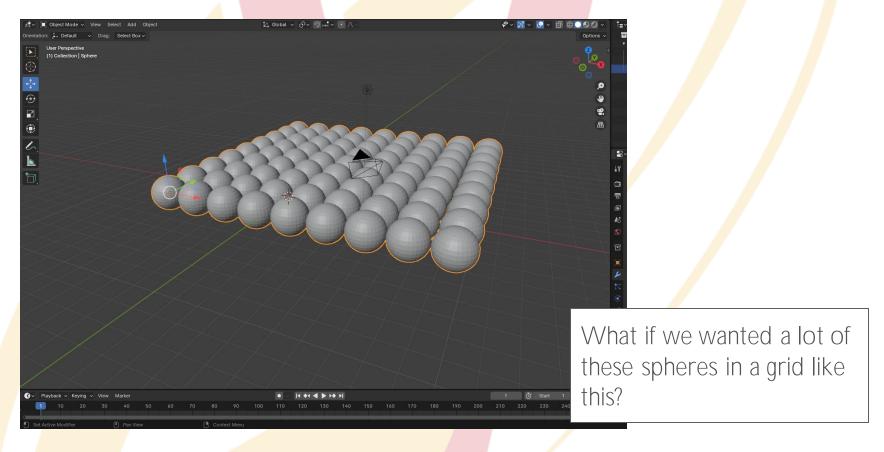


Boolean Modifiers: Intersect Example

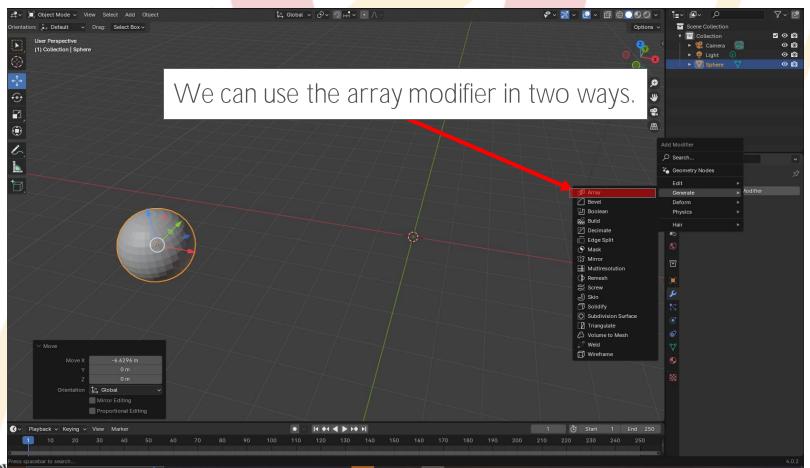


Break Time!

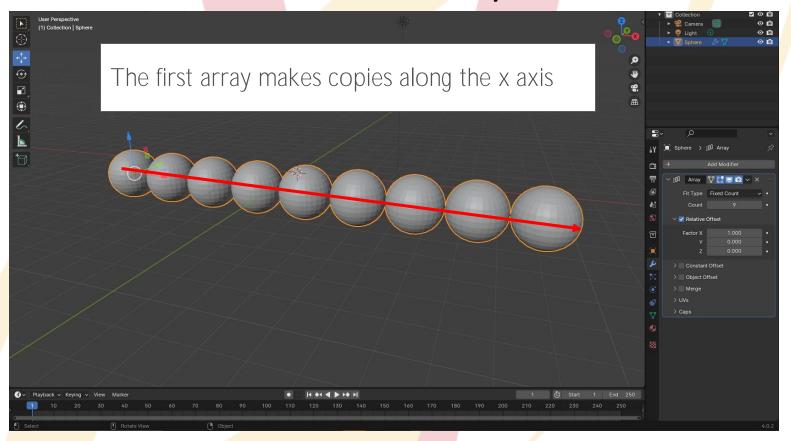


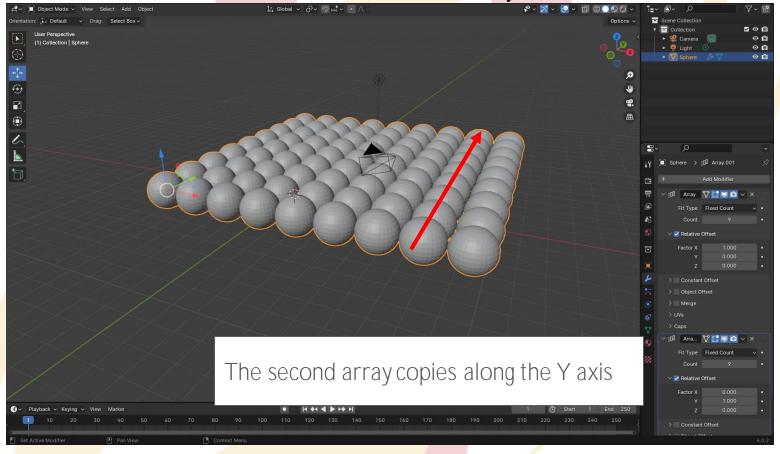






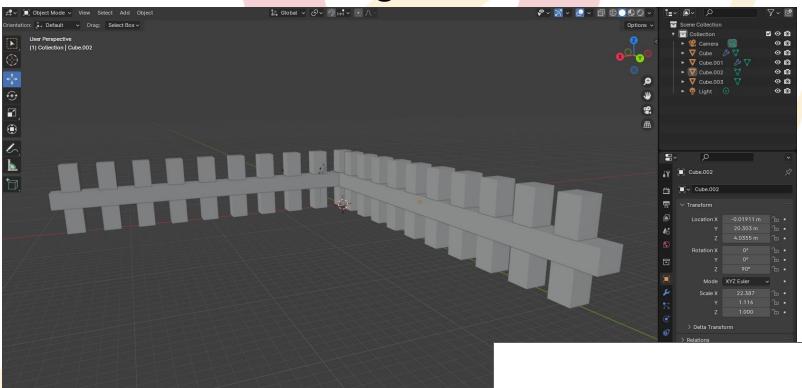








Creating Collections

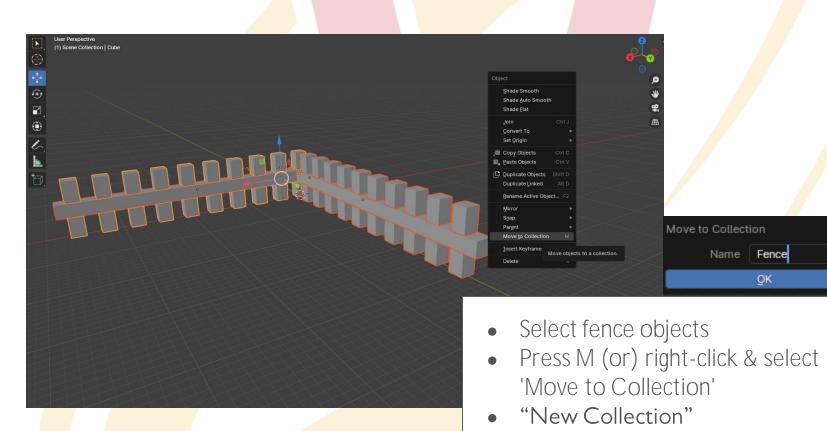


- Collections are useful for organizing a scene
- What if I wanted to be able to hide or show all of the fence posts with a single click?
- Put all the fence posts in a collection.



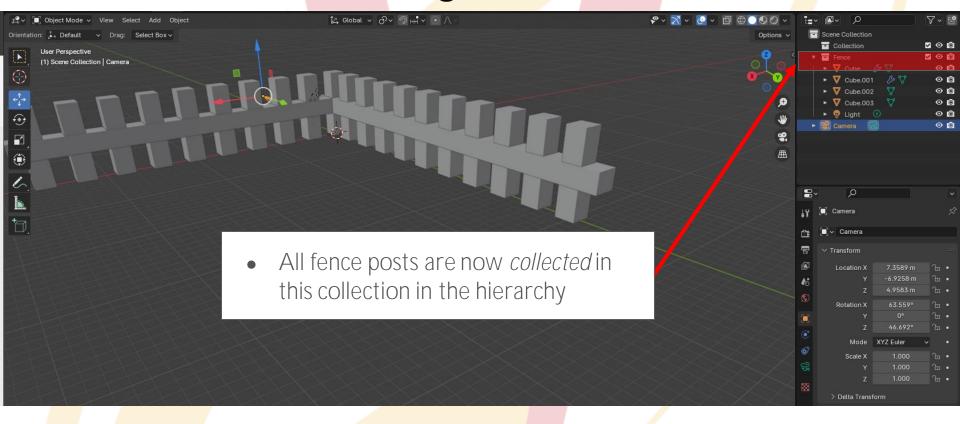
Creating Collections

Label the collection





Creating Collections



Mini Creation

Keep working on your creation from Session 1. Add more details, or try new techniques from what we talked about today. Try new modifiers, and play around to see what you can create. Use collections to organize your scene

Stage 1: Design

- Make a quick sketch using the materials provided to design and environment with the objects below.
 - Confirm design with instructor before modeling



Stage 11: 3 Objects

- Create a building
 - House
 - Shed
- Landscape/ground
- Yard feature
 - Wagon
 - Tree/bush

Stage III: 2 Objects

- Landscaping feature
 - Rocks
 - Walking path
- Details to building:
 - o Door
 - Roof

Stage IV: 2 Objects

- More details
 - o Cow
 - Water well
- Details to building:
 - Windows
 - Chimney



Mini Creation Inspiration





Mini Creation Bonus

- Try animating something in your scene (eg: smoke from chimney, swaying tree)
- Use animation toolset to make the camerafly through your scene
- Try adding colors to the objects in your scene