REU Modeling Course - Part 2 Blender More Modeling



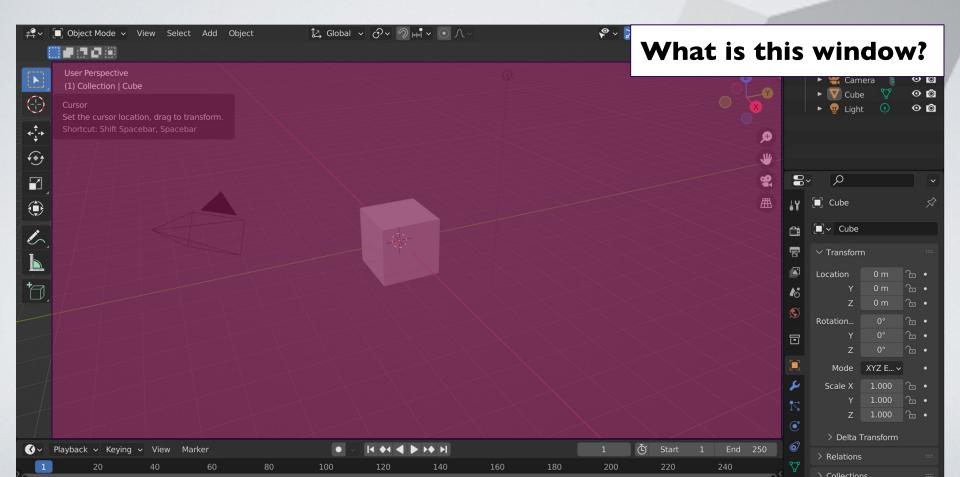


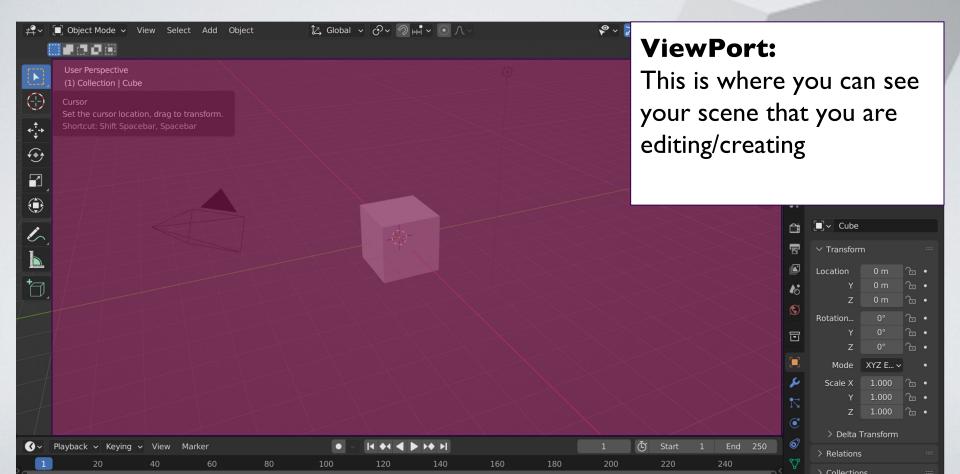
Workshop Workflow

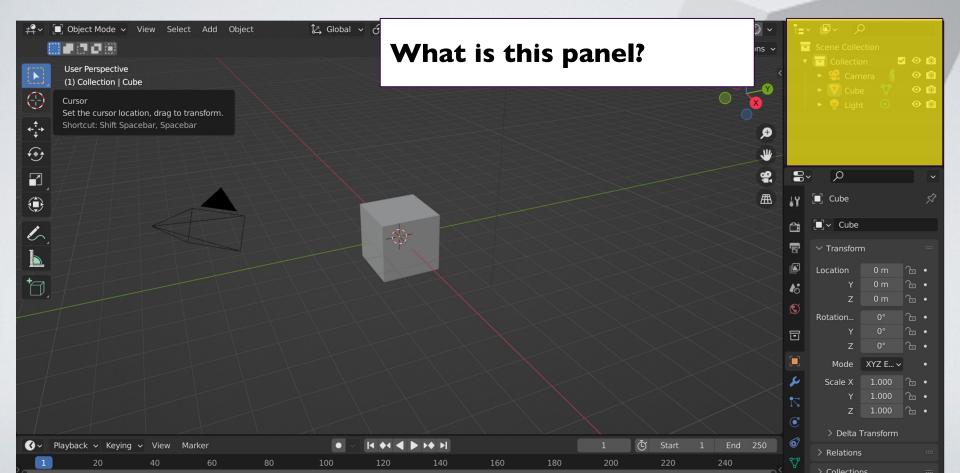
- Review Previous Session
- More Modeling Operations
- Organizing Scenes/Objects in Blender
- Today's Mini Creation

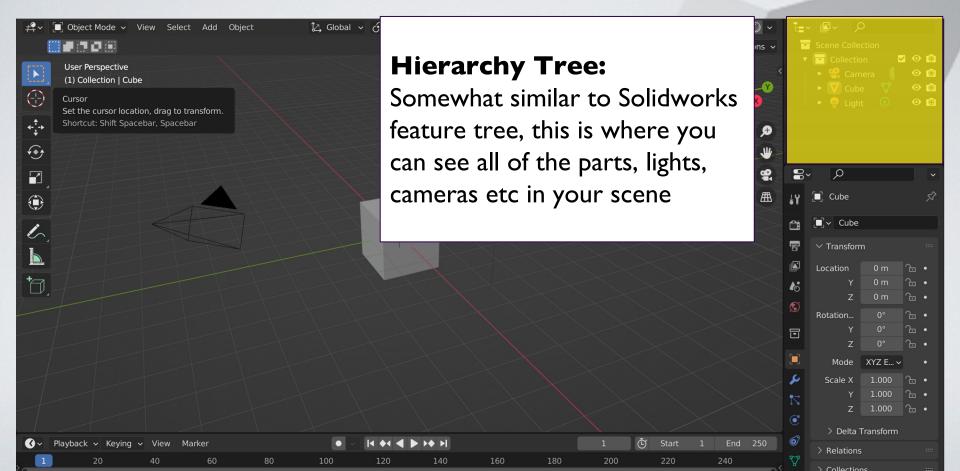


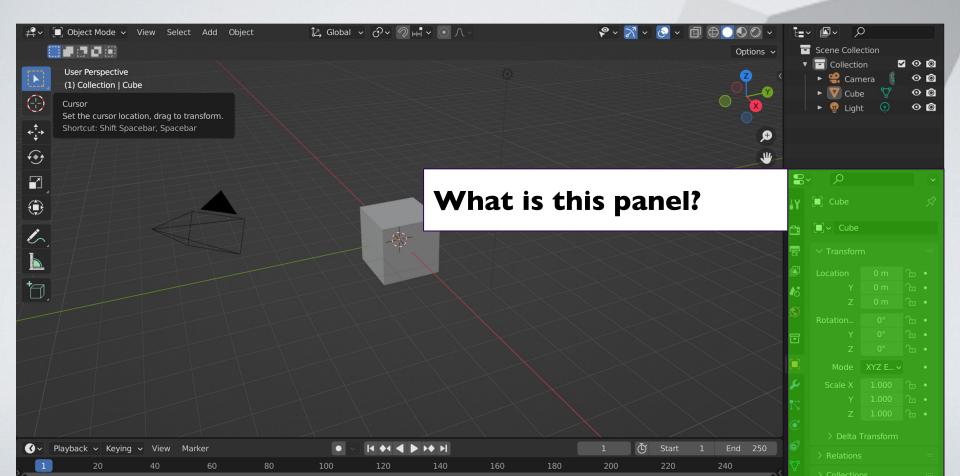


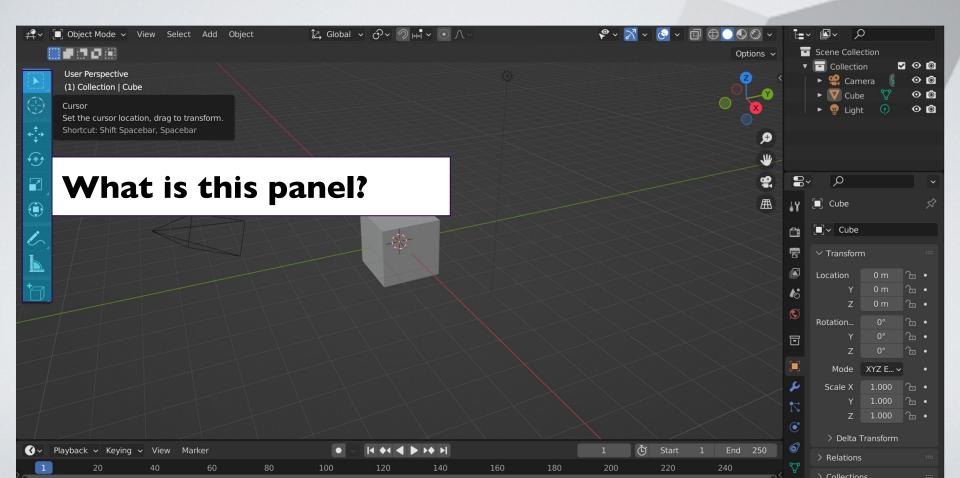


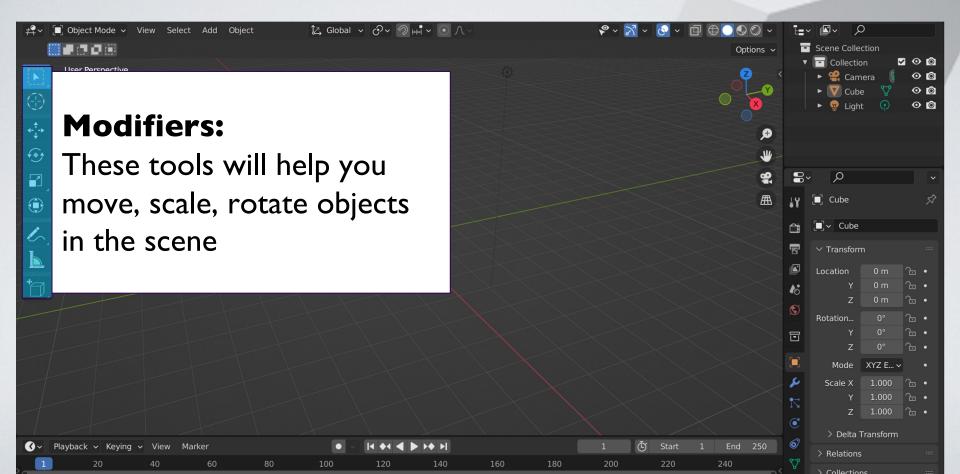




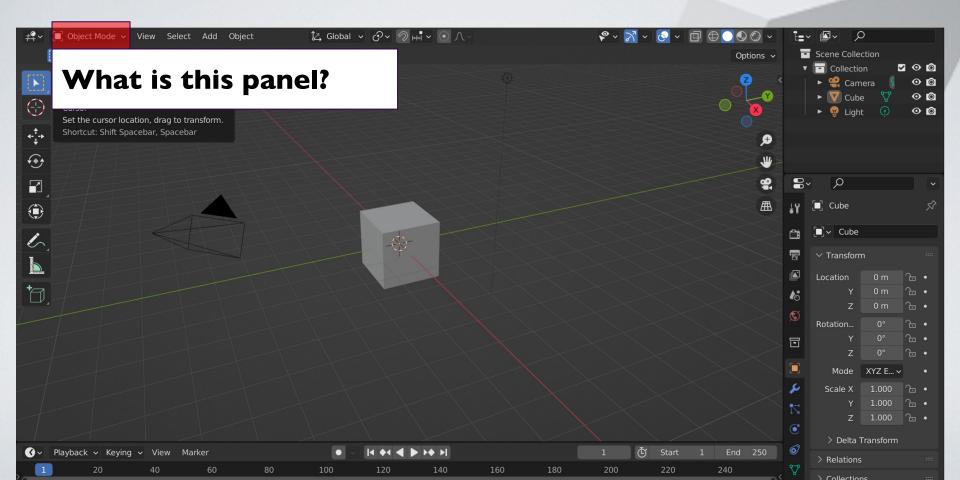


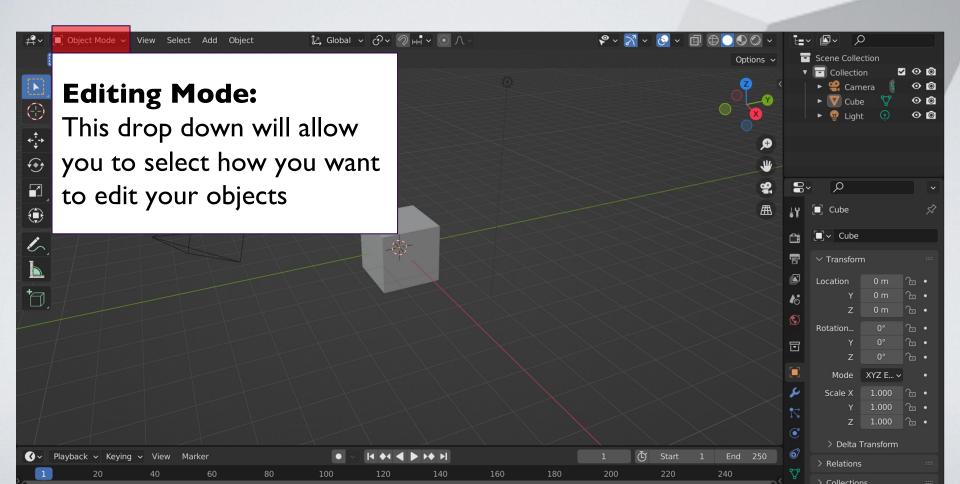






Areas

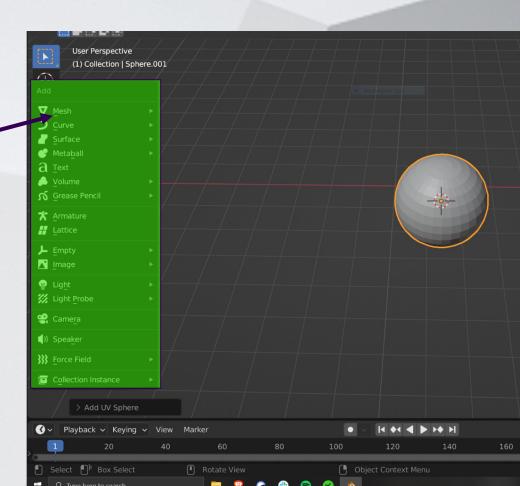




- Shift + A is a crucial hotkey!
- (Open Add Menu) Shift + A
- Add Menu > Mesh > UV Sphere

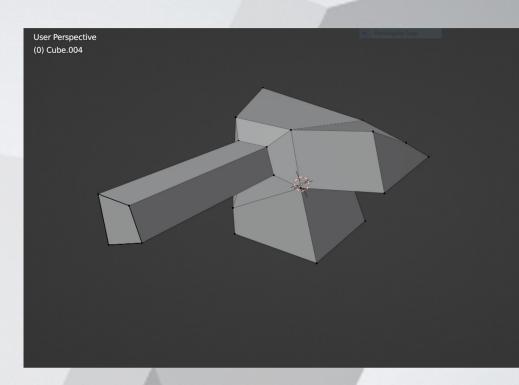
Hotkey Review:

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



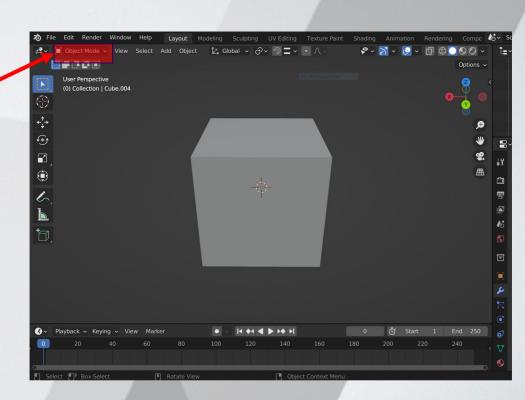
More Vertex Operations

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

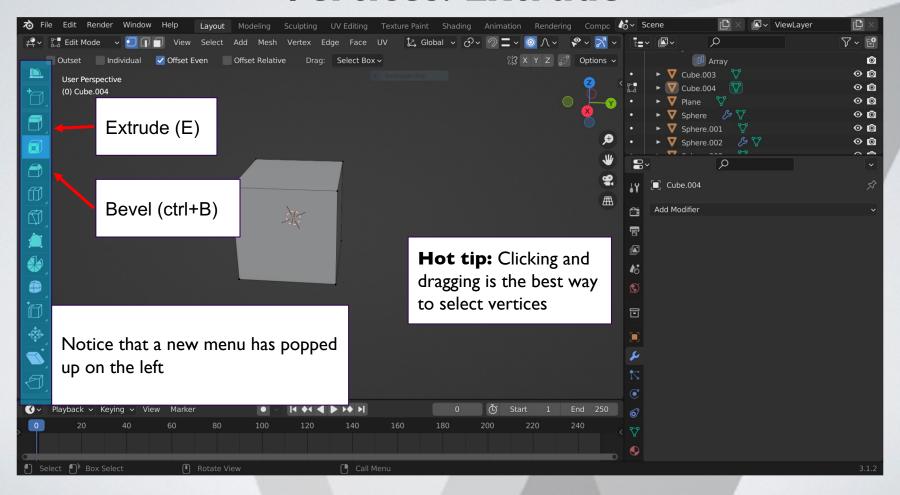


Vertices: Extrude

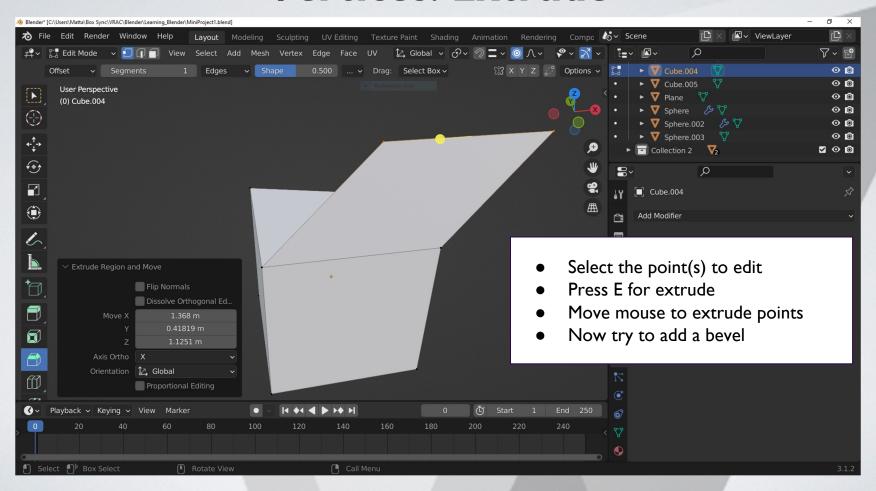
- Add a cube to scene
 - o (Hint: Shift + A opens add menu)
- Enter "Edit Mode"



Vertices: Extrude



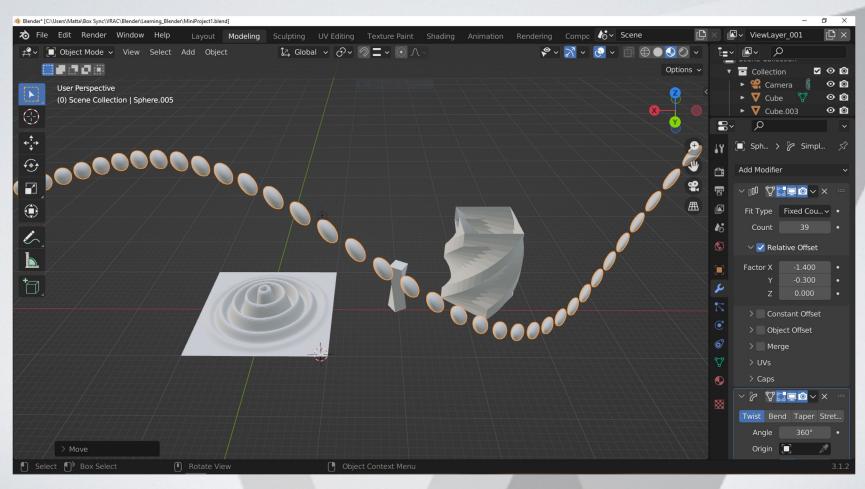
Vertices: Extrude



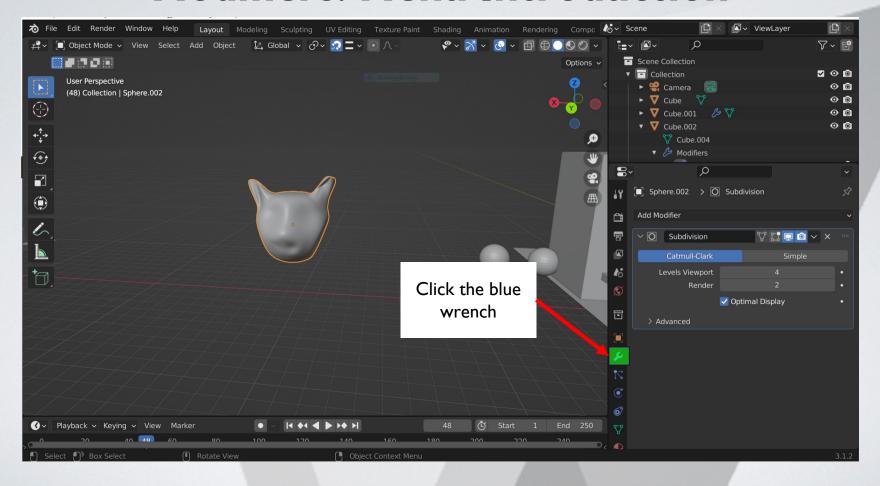
Break Time!



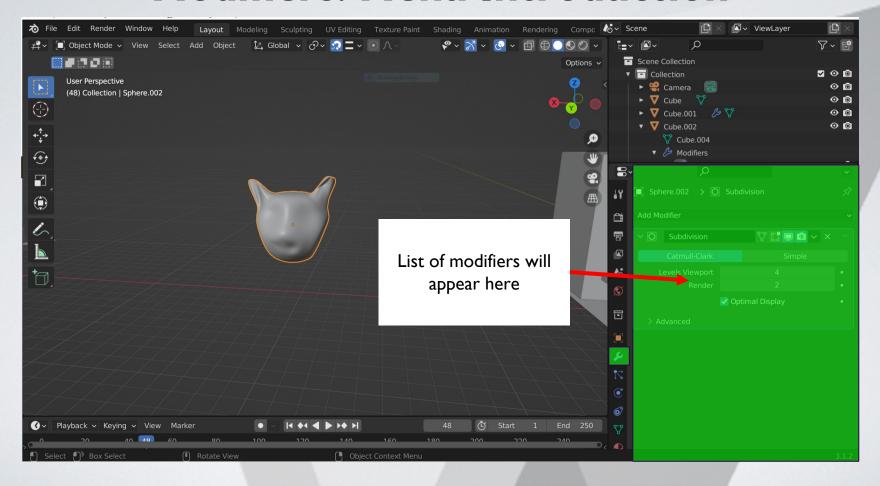
Modifiers!



Modifiers: Menu Introduction



Modifiers: Menu Introduction



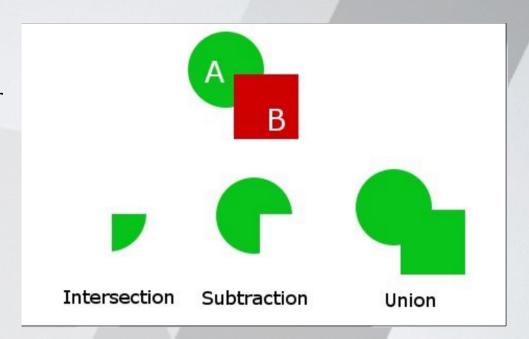
Boolean Modifiers

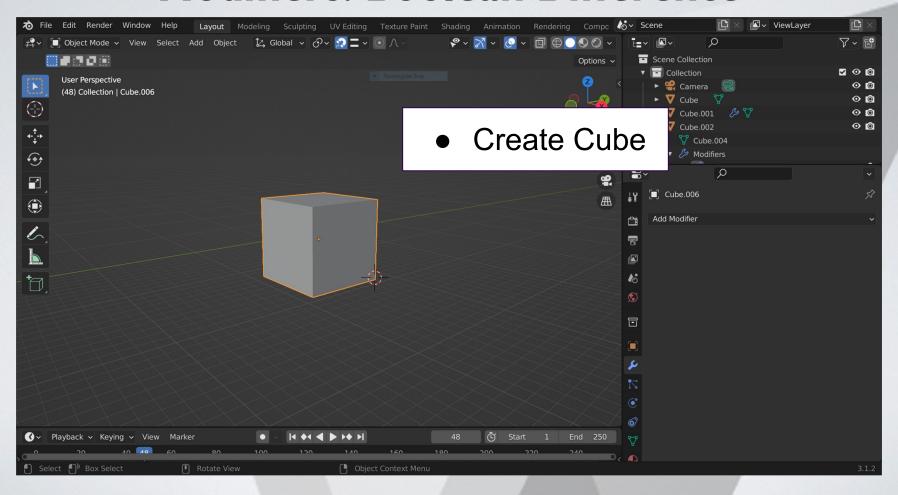
Boolean Modifiers

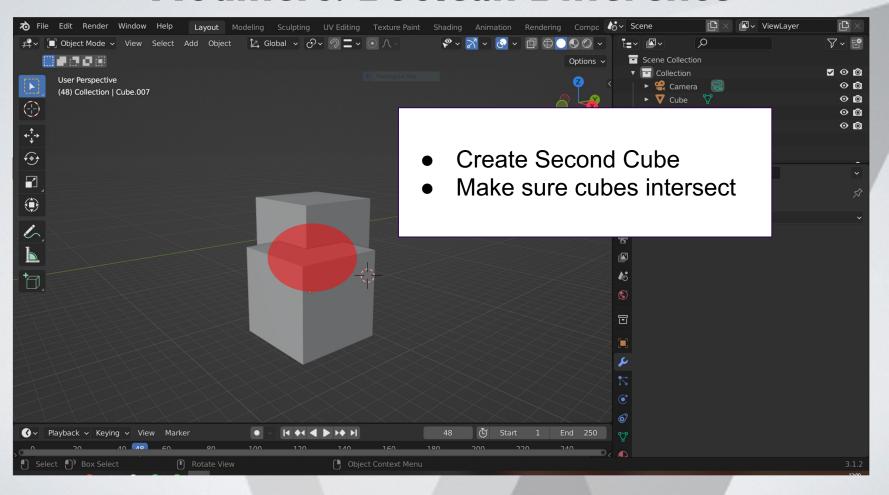
- Booleans let you subtract, add or intersect an object's geometry onto another object (merging)
- Usually used for objects that will not be deformed (mechanical)

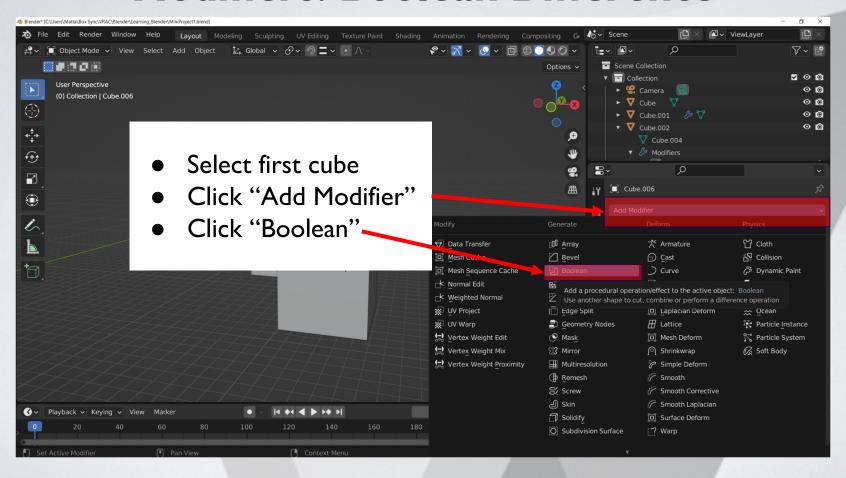
• Drawbacks:

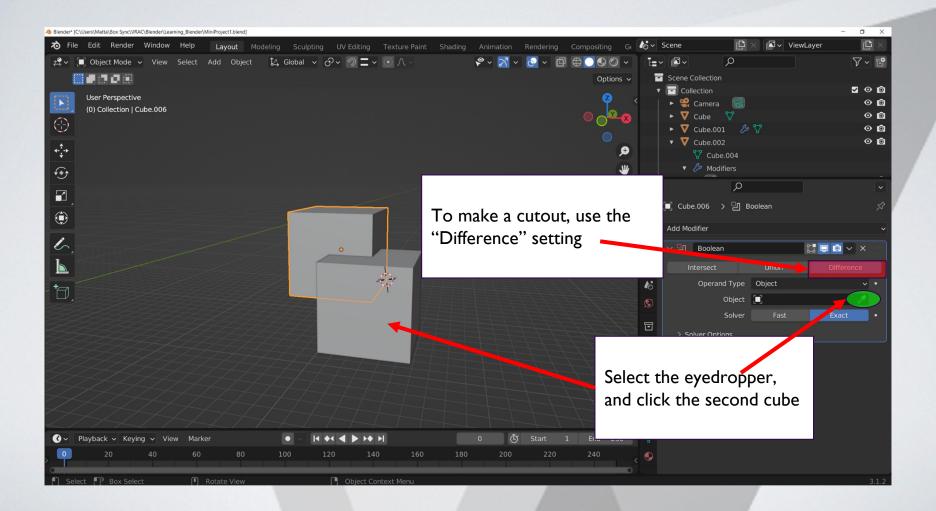
Geometry cannot be deformed

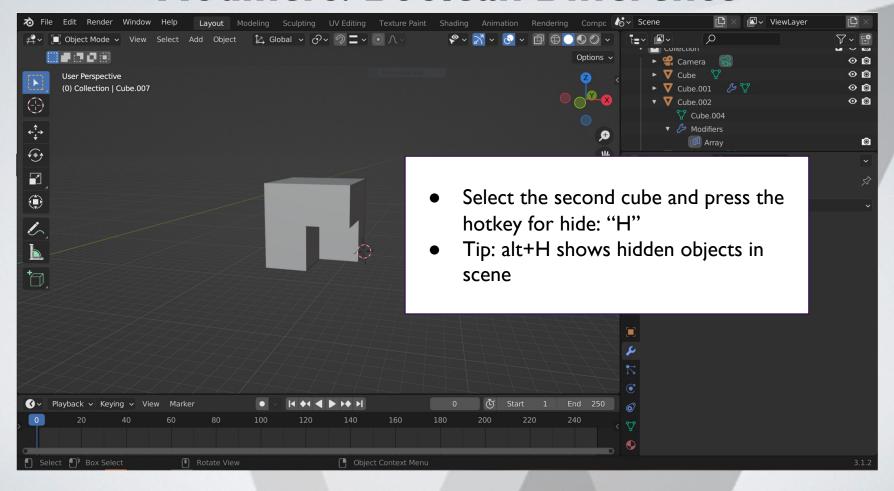




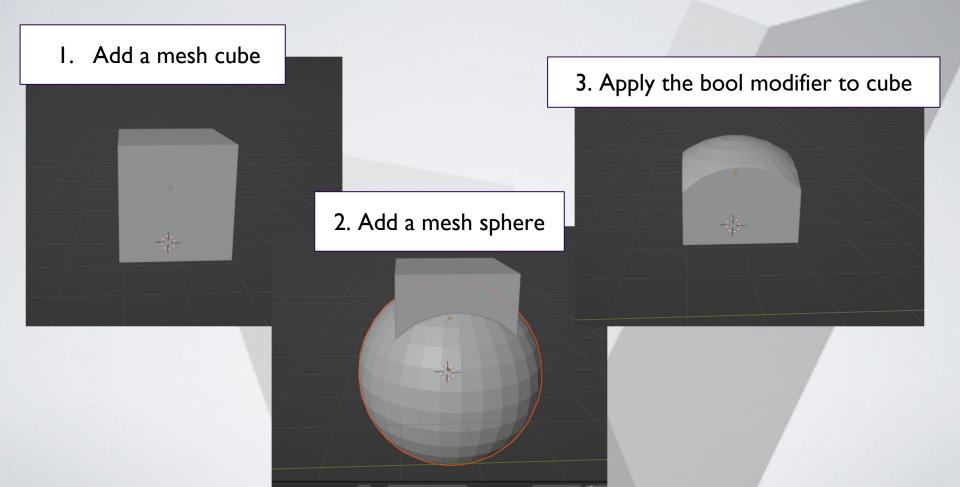




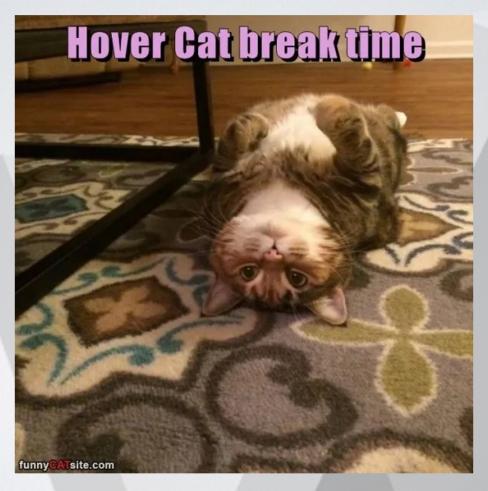


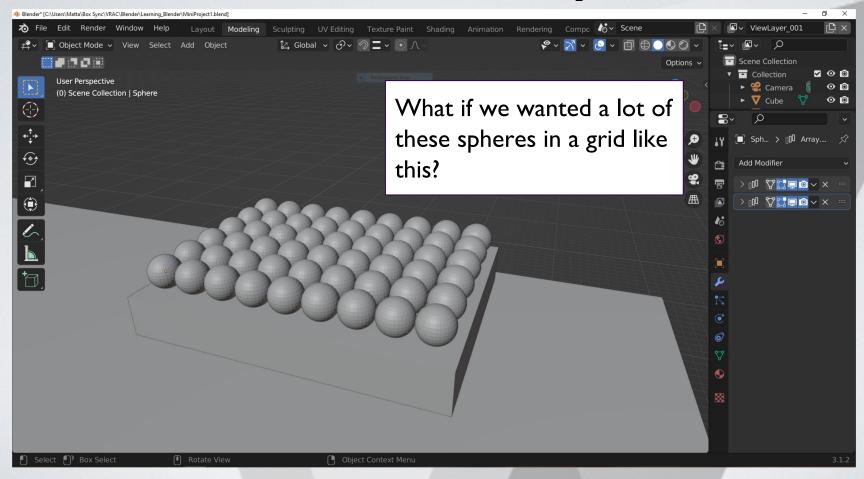


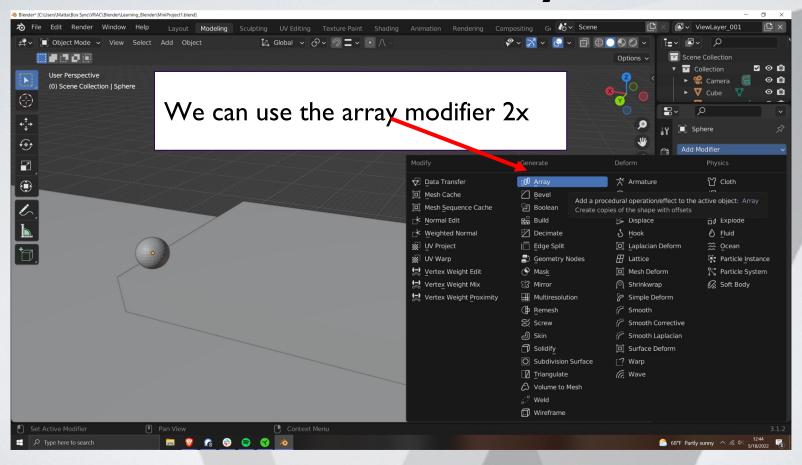
Boolean Modifiers: Intersect Example

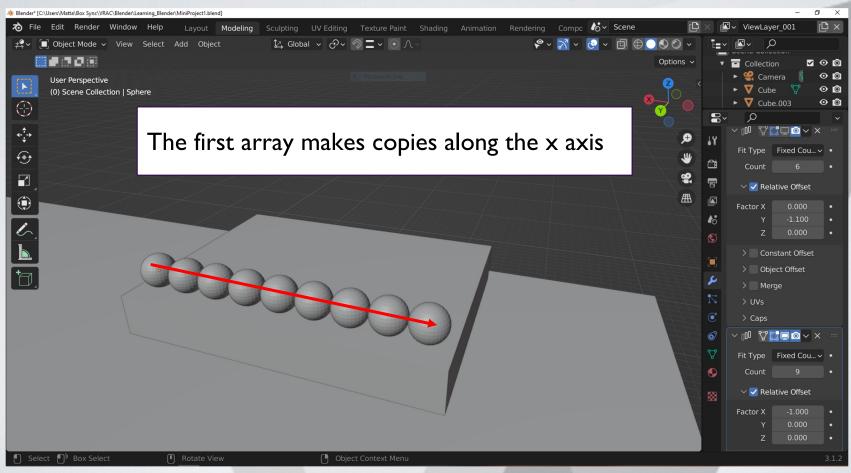


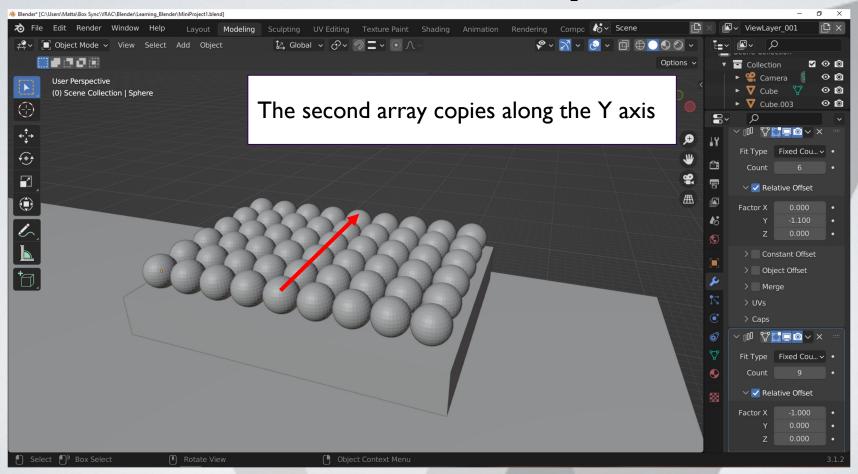
Break Time!



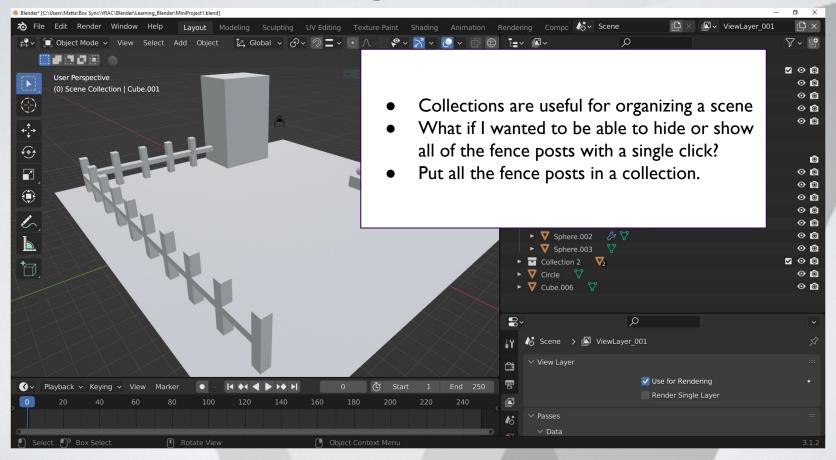




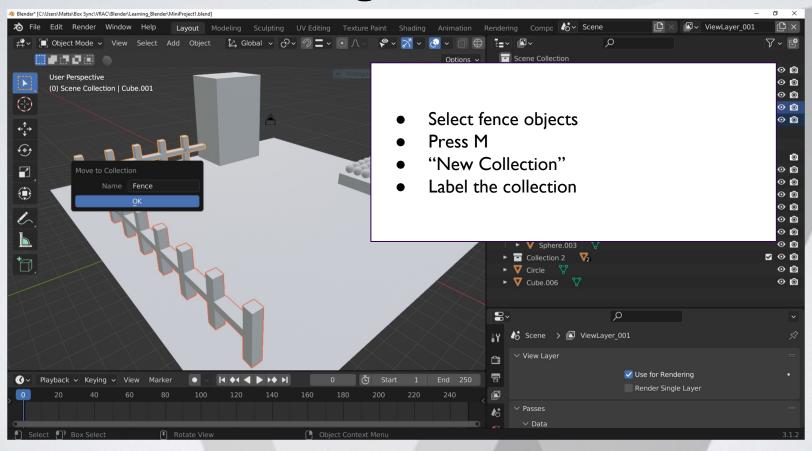




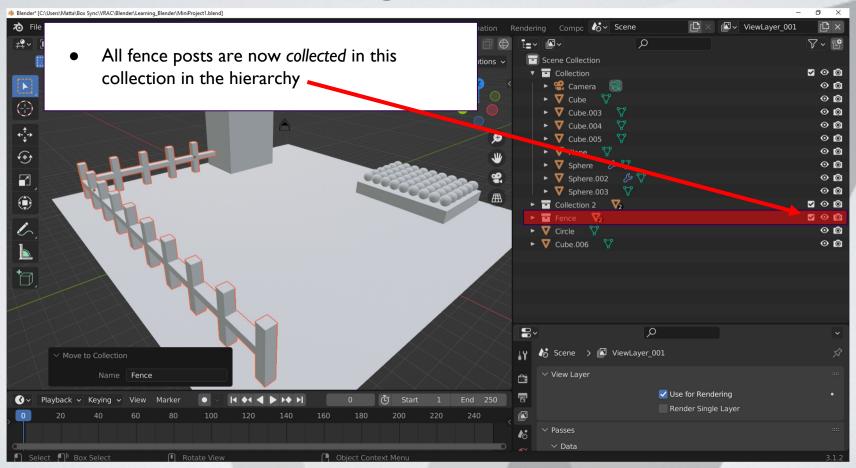
Creating Collections



Creating Collections



Creating Collections



Mini Creation

Keep working on your creation from Session I. 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 I: 3 Objects

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

Stage II: 2 Objects

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

Stage III: 2 Objects

- More details
 - 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 camera fly through your scene
- Try adding colors to the objects in your scene