Community Notes: Wk 2

RULES for community notes:

Highlight yellow for rhino command

Highlight green for grasshopper command

Highlight in blue for emotional encouragement

While you cannot delete anyone else's notes, you can edit them: re-organize, clarify, etc!

Important Settings / Tools:

- Enable "gumball"
- Enable OSnaps
- (disable all of the other options on that bottom toolbar (i.e. smartTrack))

Vocabulary:

- Radius (dist from center of circle to edge)
- Diameter 2 X Radius
- Coincident 2 or more geometries at the SAME POINT in space
- Coliner 2 or more geometries that exist in the SAME LINE in space
- Coplanar 2 or more geometries that exist in the SAME PLANE in space
- Curve (crv) line, multiple lines connected together (polyline)
 - Open curve curve whose end points ARE NOT coincident
 - Closed curve curve whose end points ARE coincident
- Osnap object snap
 - Snaps new objects to existing ones
 - Helps with precision modeling
 - End snaps a new shape to the ends of curves
 - Mid snaps a new shape to the mid point of a curve
- Interpolate guessing between known data points
- Extrapolate guessing the data beyond what is known
- CamelCase-

Commands:

- Polygon draws polygons
 - <u>N</u>umSides (N)
 - Changes the number of sides of your polygon

ExtrudeCrv

- Pulls a 2d shape into 3D (curve extends to a plane)
 - A very empty plane :(like my soul
- Solid = yes

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- Turning on solid creates a solid object automatically (not just a plane)
- DeleteInput = Y/N
 - Deletes the original curve the 3D shape is pulled from

- Cap

Creates any missing planes

Move

- Moving an object from point A to point B
 - By using Osnap, objects can be moved to different points of curves
 - Lines can be used as reference points for moving

Copy

Very similar to Move

- Rotate

- rotates an object around point C, from angle A to angle B
 - Copy = Y/N
 - Copies items along the path of the rotation

Revolve

- Creates a surface (srf) of revolution from a crv
 - Select the curve that will revolve, then select the axis it will revolve from
 - Typing 360 will instantly revolve the entire object around

Loft

Interpolates a surface between two or more curves

- Boolean Union

-Boolean Difference

Navigation / Keyboard Shortcuts

- You can type the underlined letter of a command to execute it instead of clicking it
- ENTER / SPACE / RMB will re-activate the last used command

Q&A:

Question: ICONS vs commands?

Answer: commands are more efficient for the most part, but it depends on the situation

(for example: it might be faster to click a focal point toolbar button than type in the command, but many commands arent on that toolbar or might have confusing or misleading icons)