KeyShot Product Animations March 9, 2017





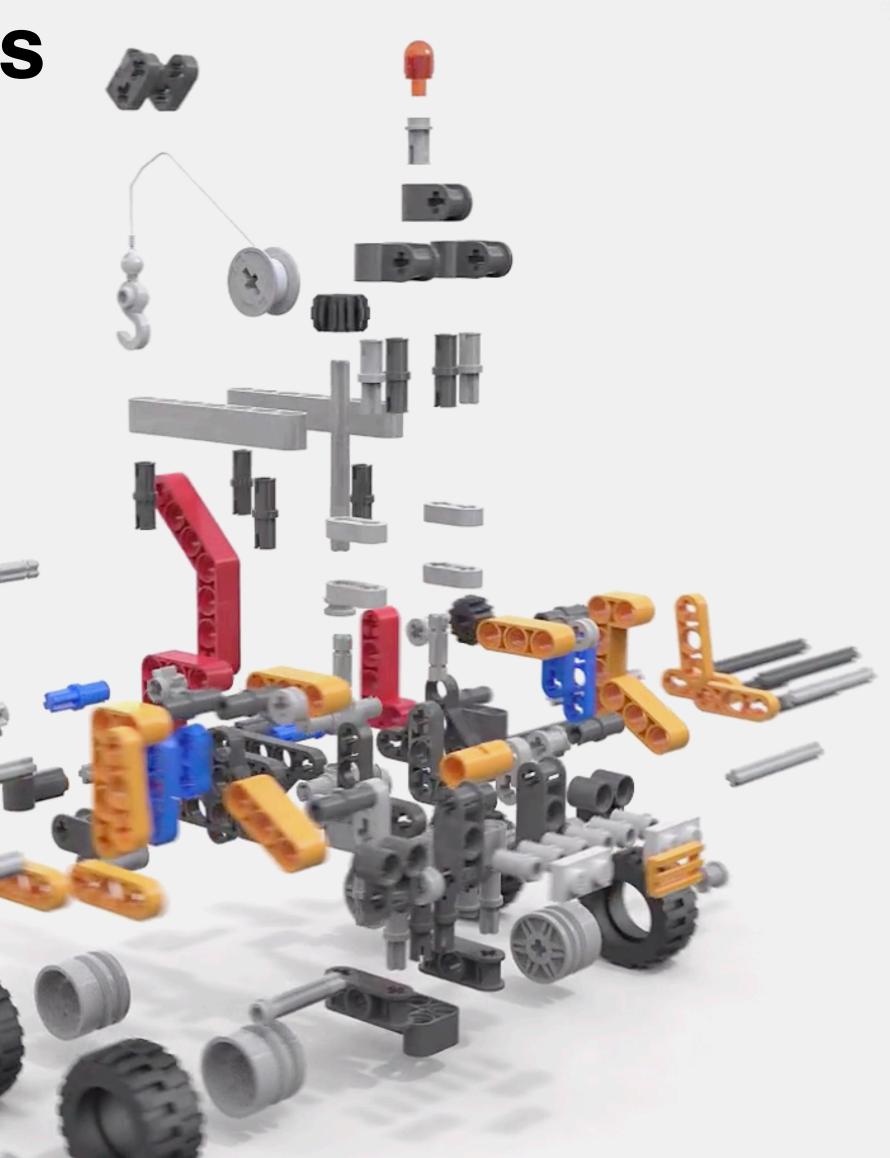
Before we Begin...

- This will be recorded
- Slideshow will be available
- KSP will be available
- Computer: 3 GHz 8 Core (16-thread) 2013 Mac Pro, 16 Gb RAM
- If you have questions...
- KeyShot Animation is a Pro feature



Product Animation Topics

- Why Animate?
- Animation Examples
- KeyShot Animation Principles
- Part Animation Types
- Hands On:
 - Creating Part Animations
 - Linked Animations
 - Animation Workflow & Organization
- Q & A







Animations are Powerful

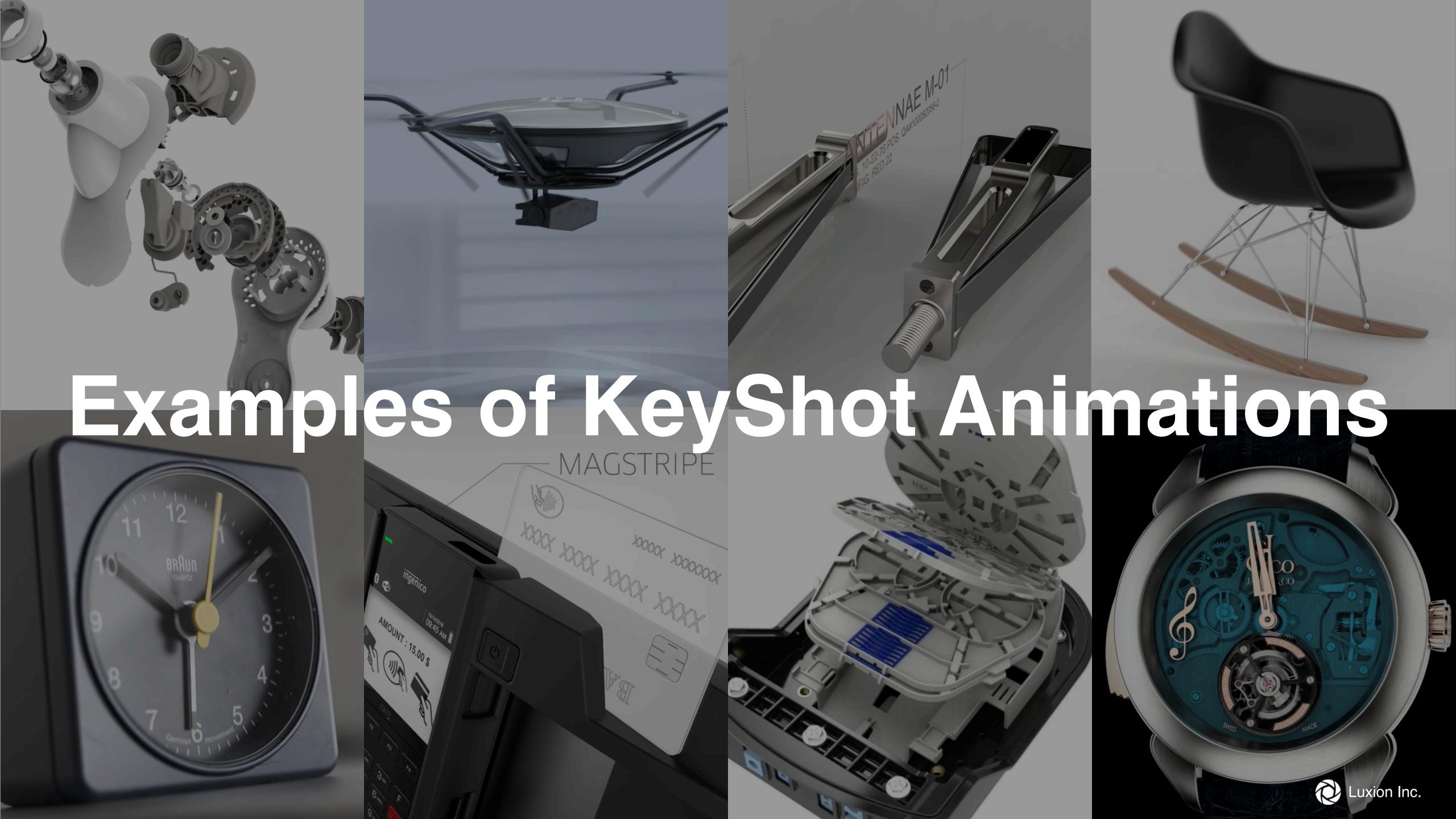
- Increase presentation engagement
- Convey a mood
 - Appeal to emotion

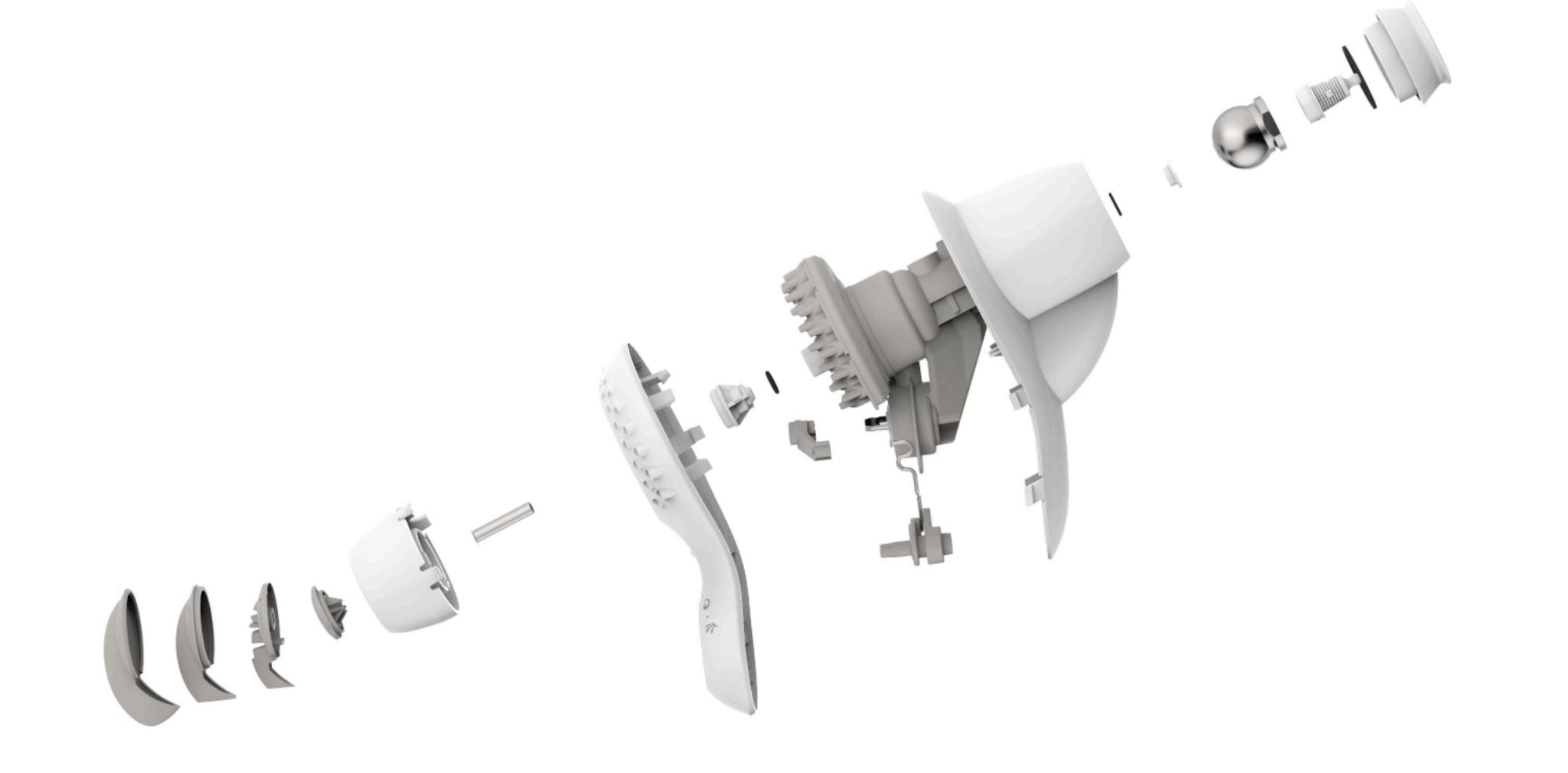
Show:

- Function
- Assembly
- Articulation
- Part relationships















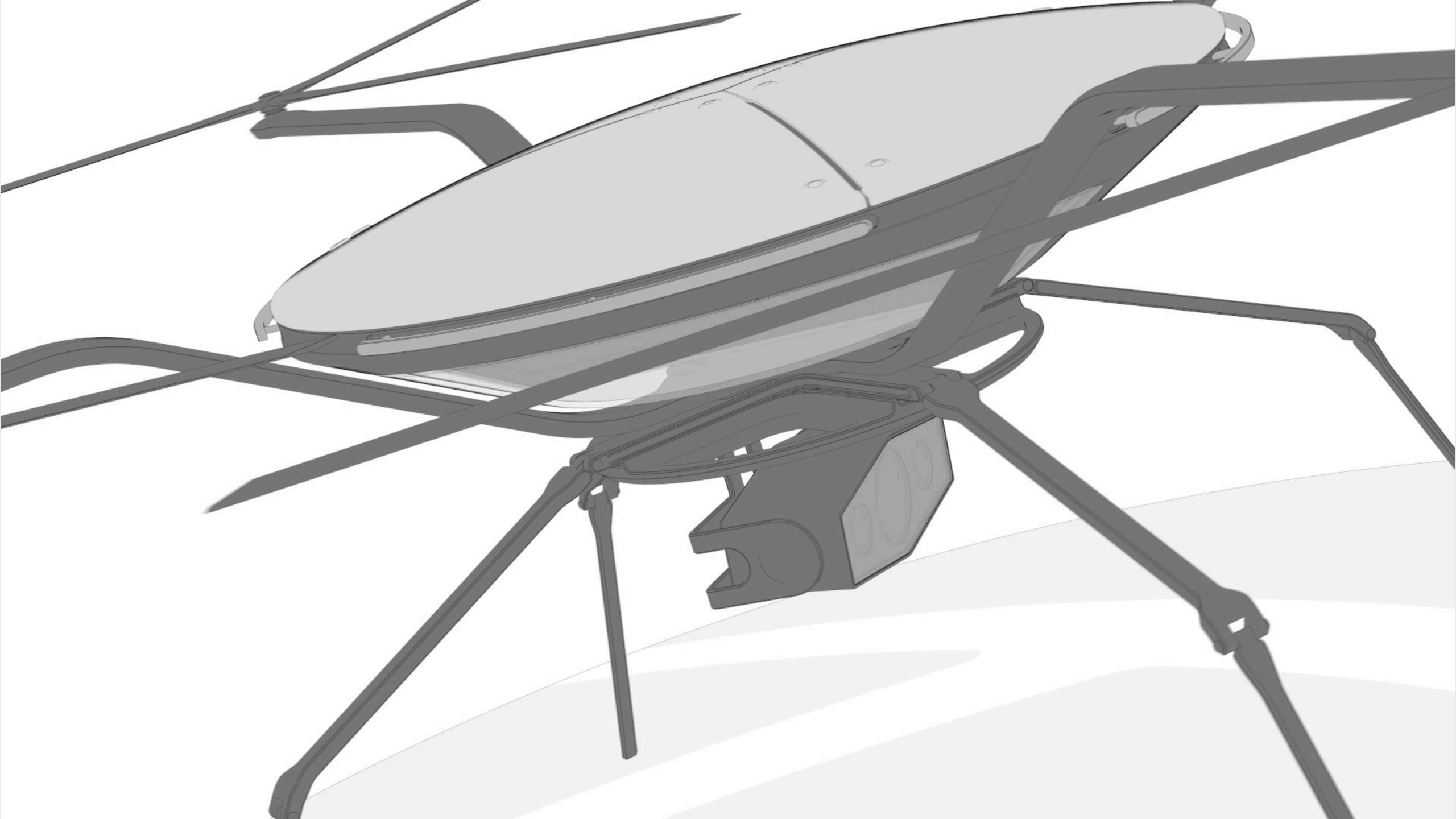
COYOTE® DTC8



LATCHING HINGED COLLAR SECURES THE COVER TO THE BASE



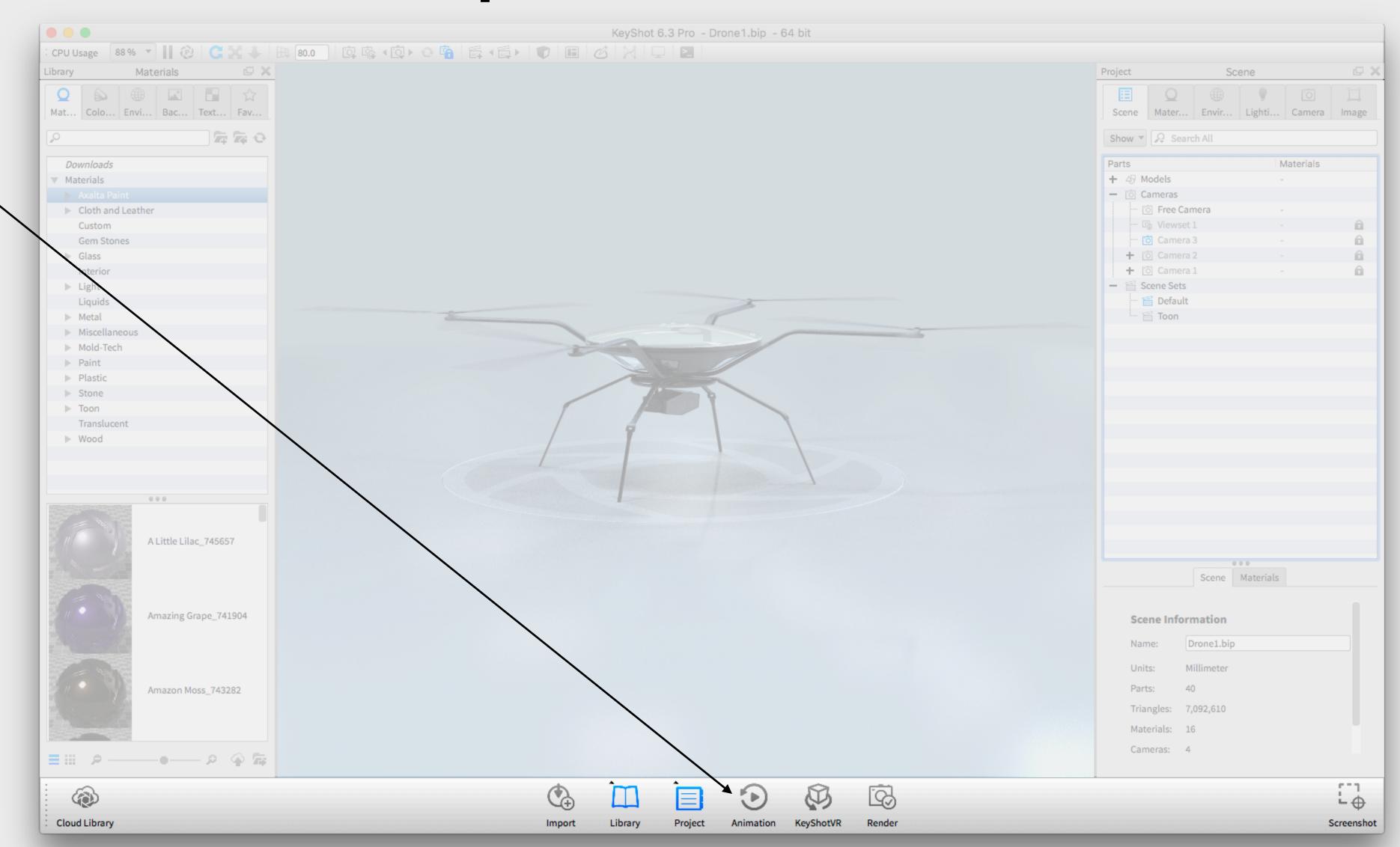




Access the Animation Workspace

To Open:

Click the Animation icon at located in the Toolbar along the bottom of the KeyShot interface





Animation Workspace

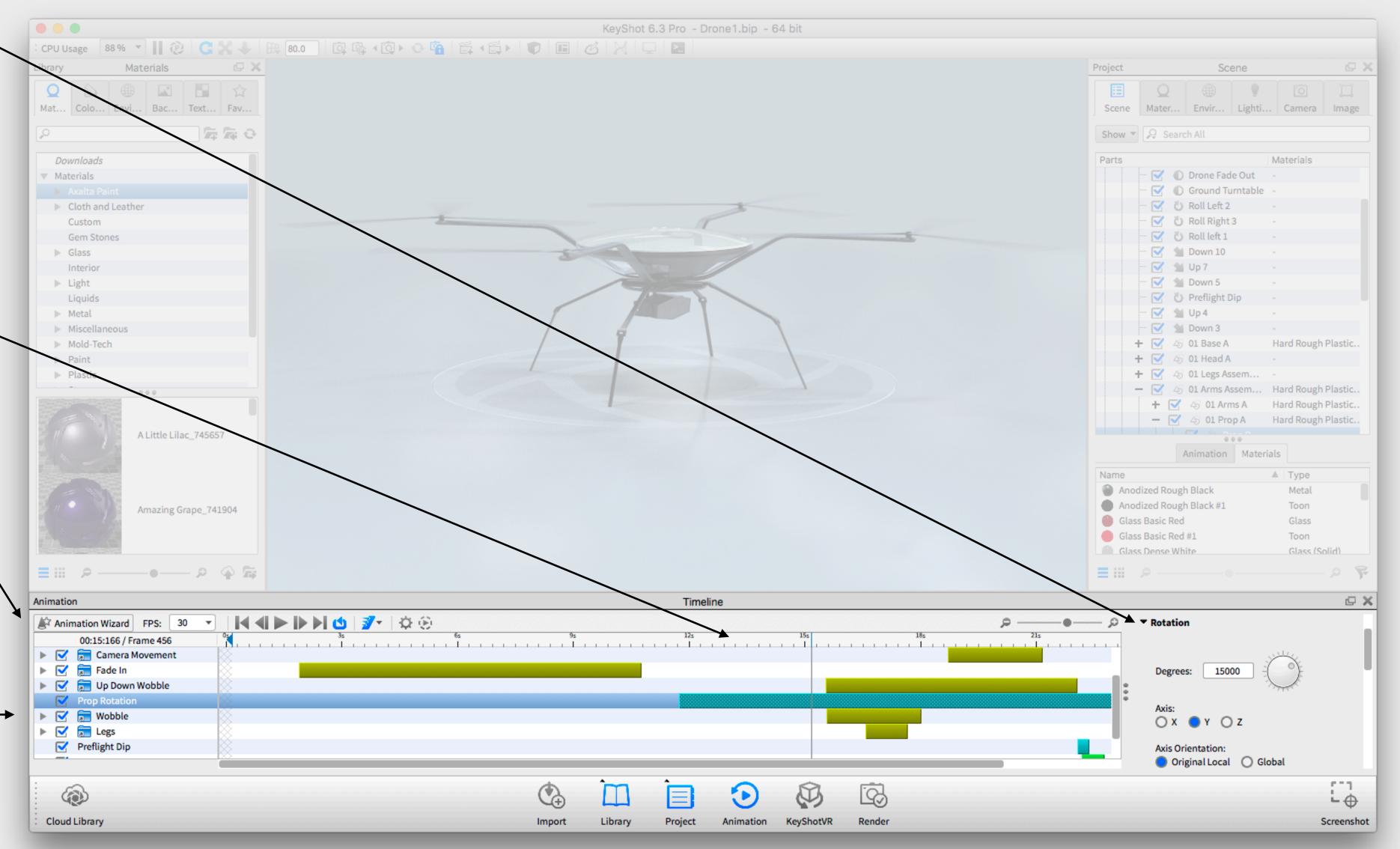
Animation Properties Make edits to individual transforms

Timeline
Chronological
time-based workspace

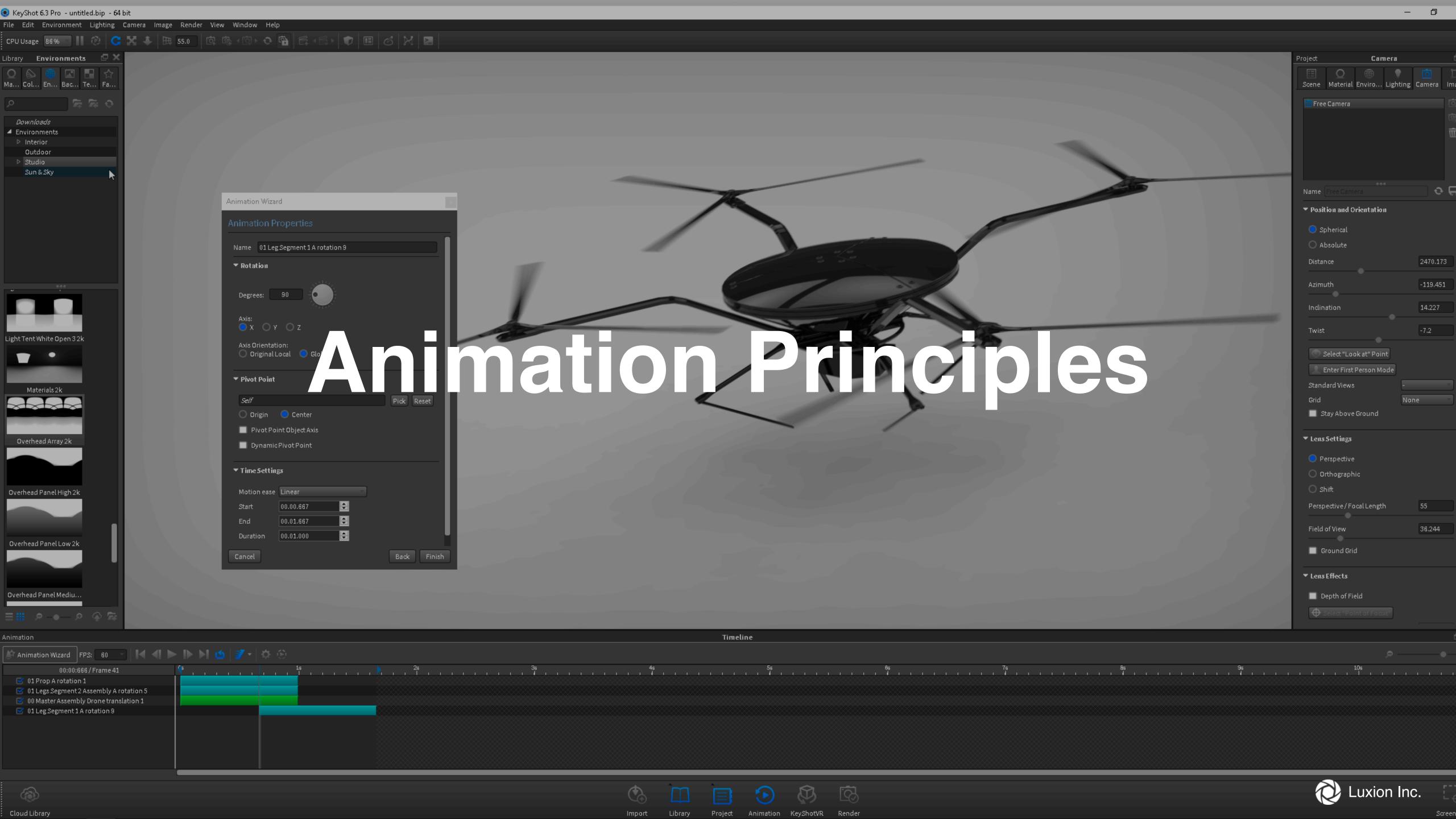
Animation Toolbar
Create transforms and interact with the animation

Animation List

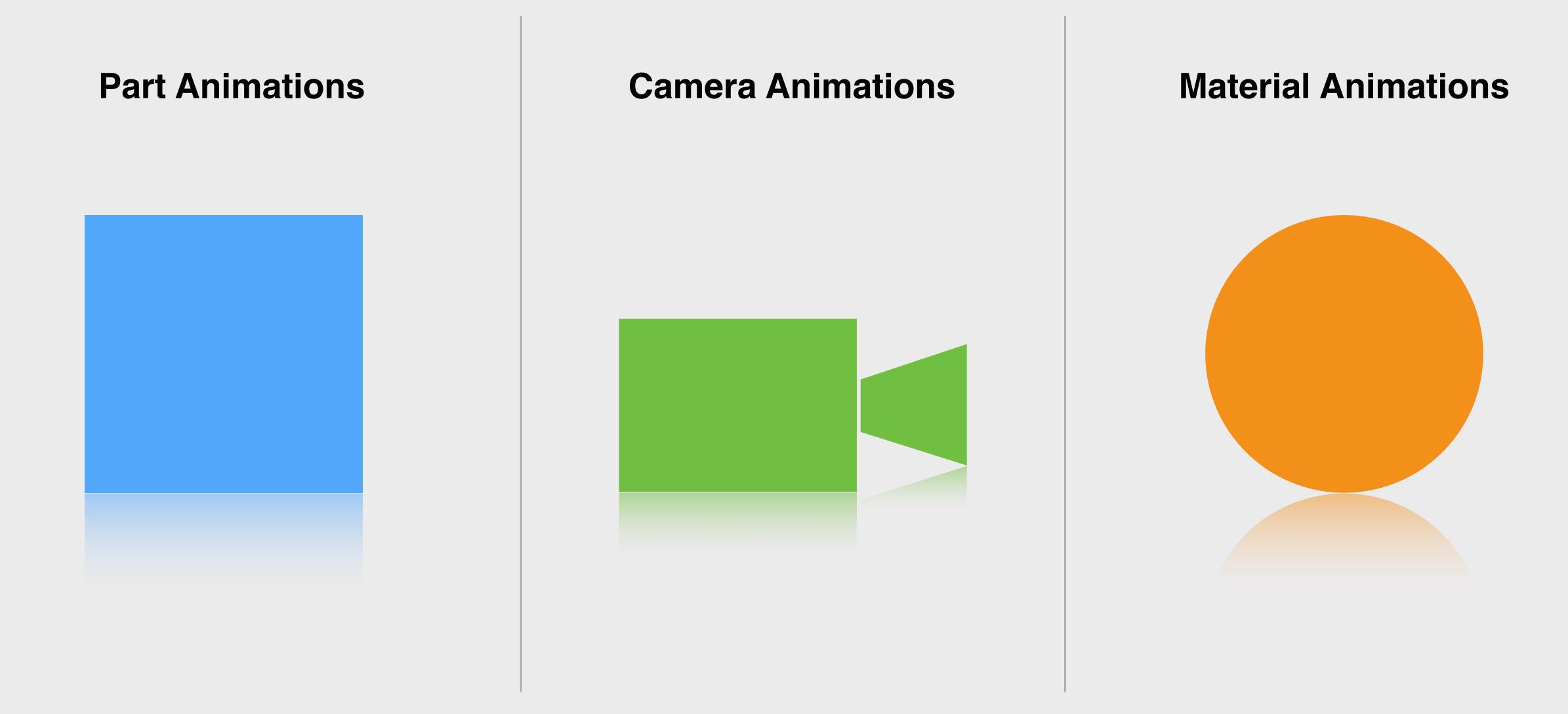
All animations in the current Scene Set







P1: Animation Types

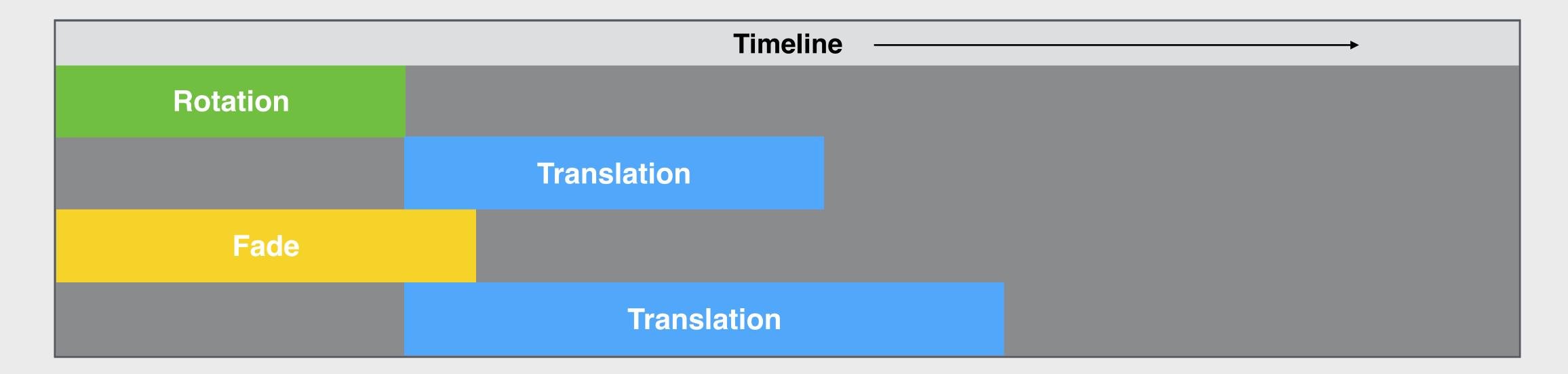




P2: Individual Transforms

Can be:

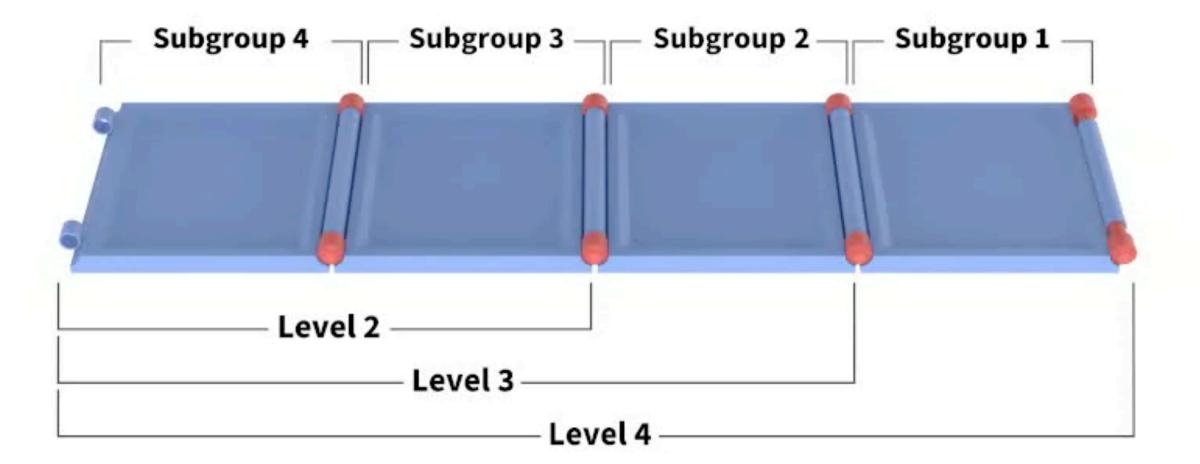
- Moved
- Linked
- · Scaled
- Mirrored
- Grouped





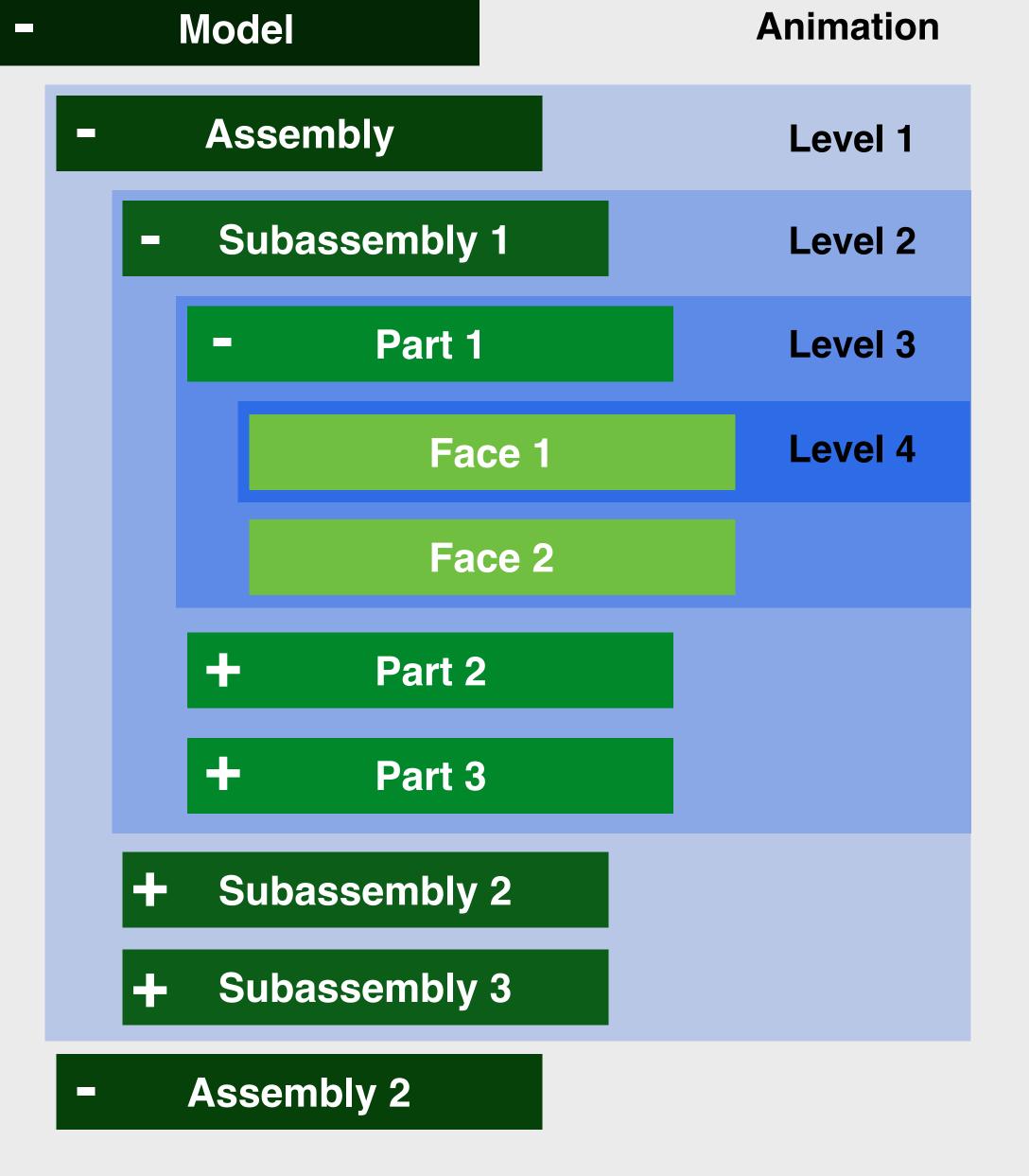
P3: Pivots

- Any geometry can be a pivot for an animation
- A pivot can serve as the center of a rotation
- By default, the pivot is set to the center of the part that is being animated
- Pivots can be dynamic (moving)
 - This is used when the assembly isn't built ideally with proper subgroups



P4: Assembly Structure

- Animating an assembly or subassembly affects everything it contains
- Animating a part that already is affected by an assembly animation will be affected by both animations

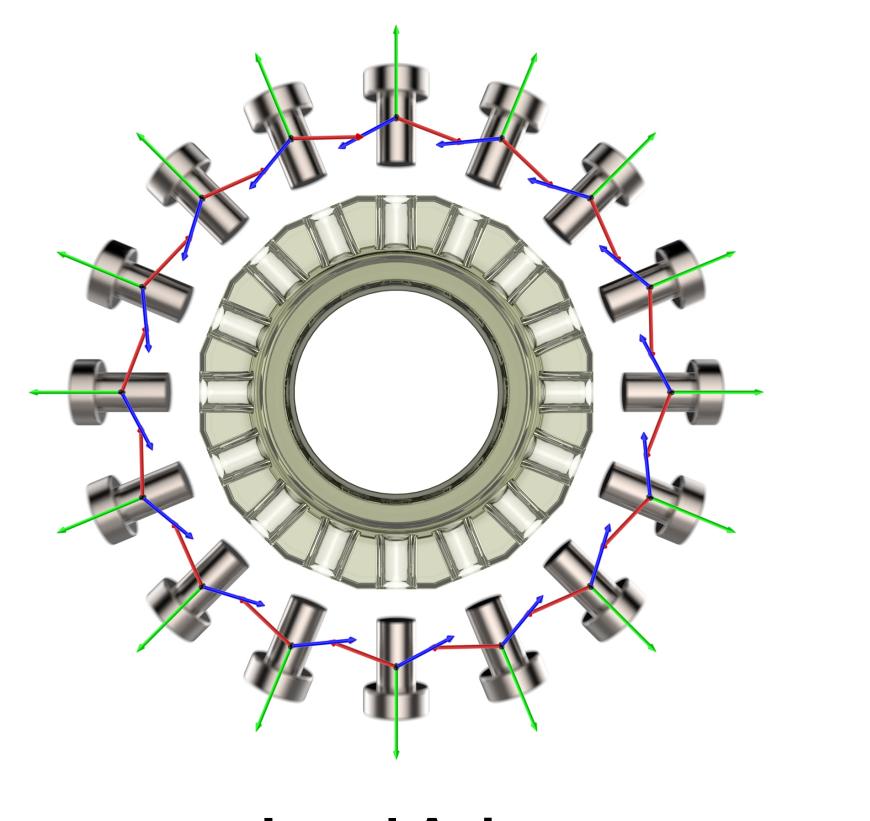


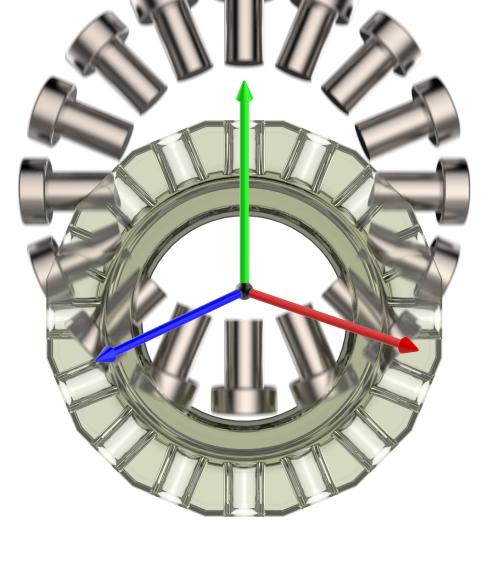


P5: Axis

Local vs Global Axis

- KeyShot respects local axis when available (CAD programs)
- Each level of a CAD assembly has its own local coordinates
- Gives you more options when animating in KeyShot
- When used, simplifies animation process

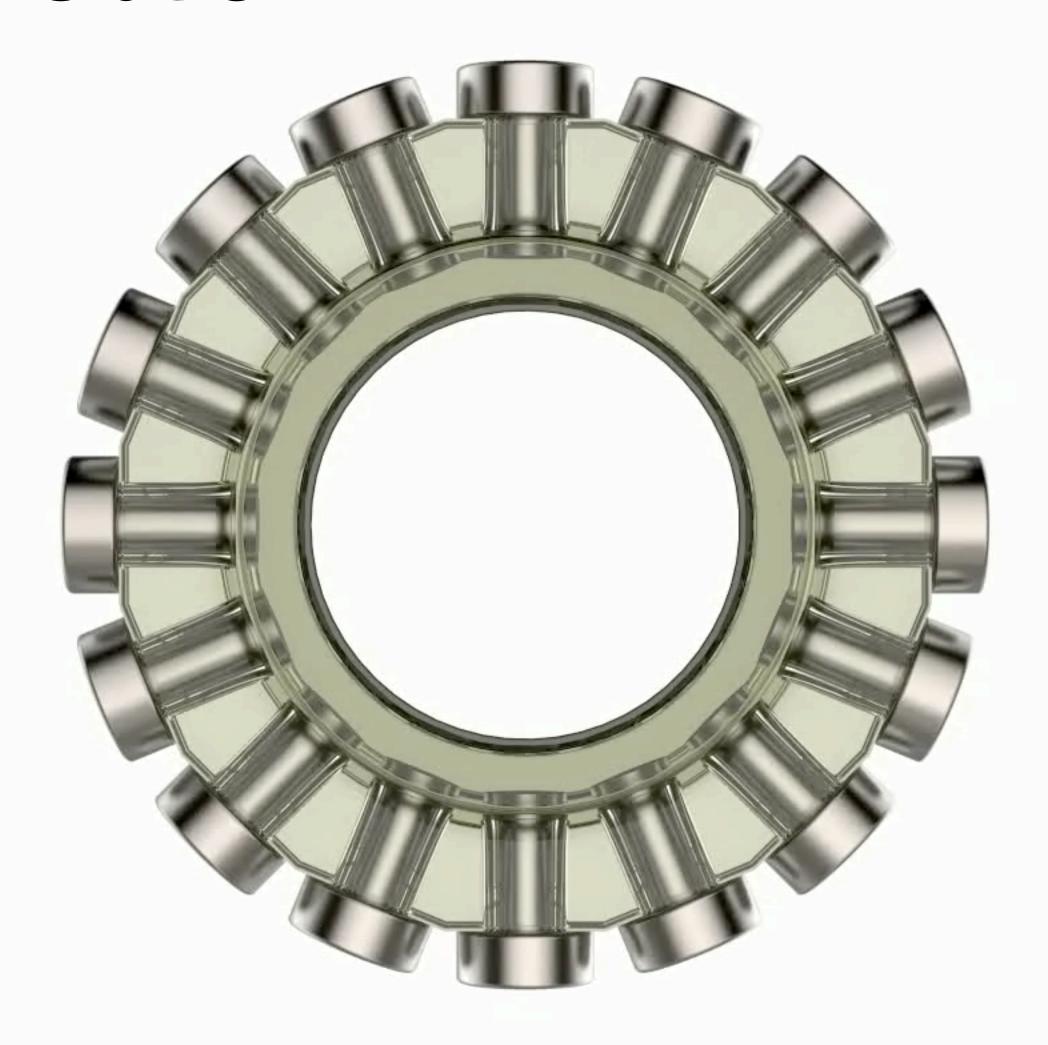




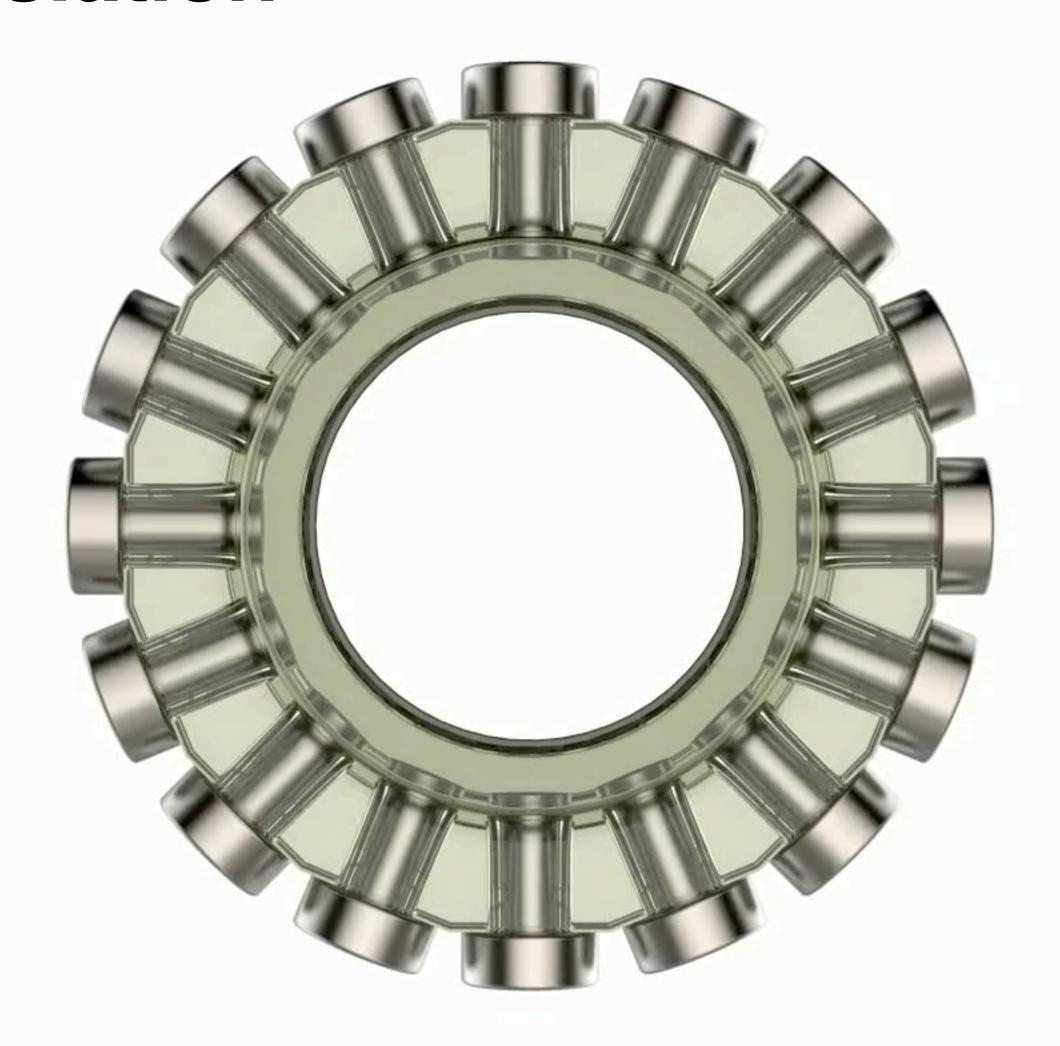
Local Axis

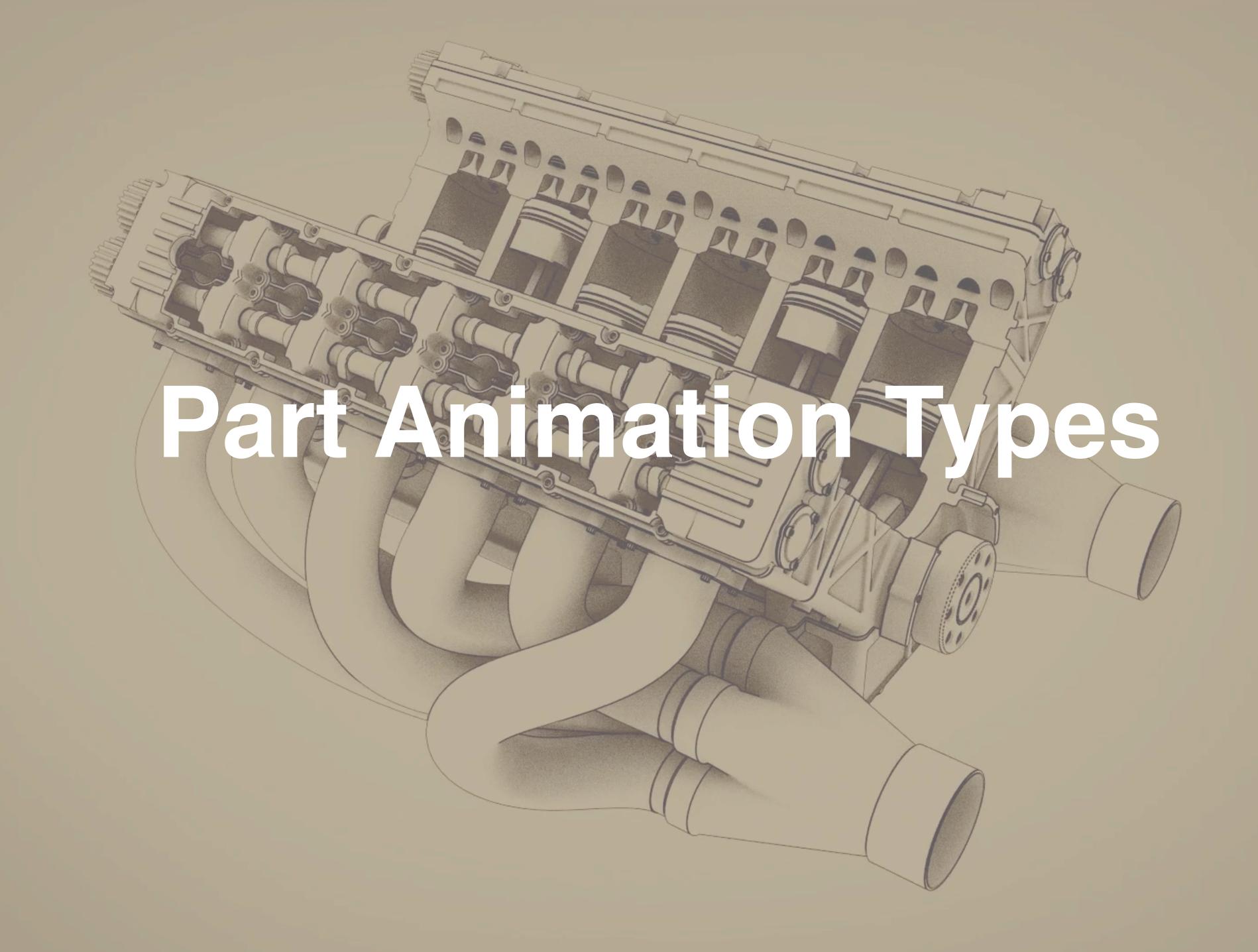
Global

Global Axis Translation



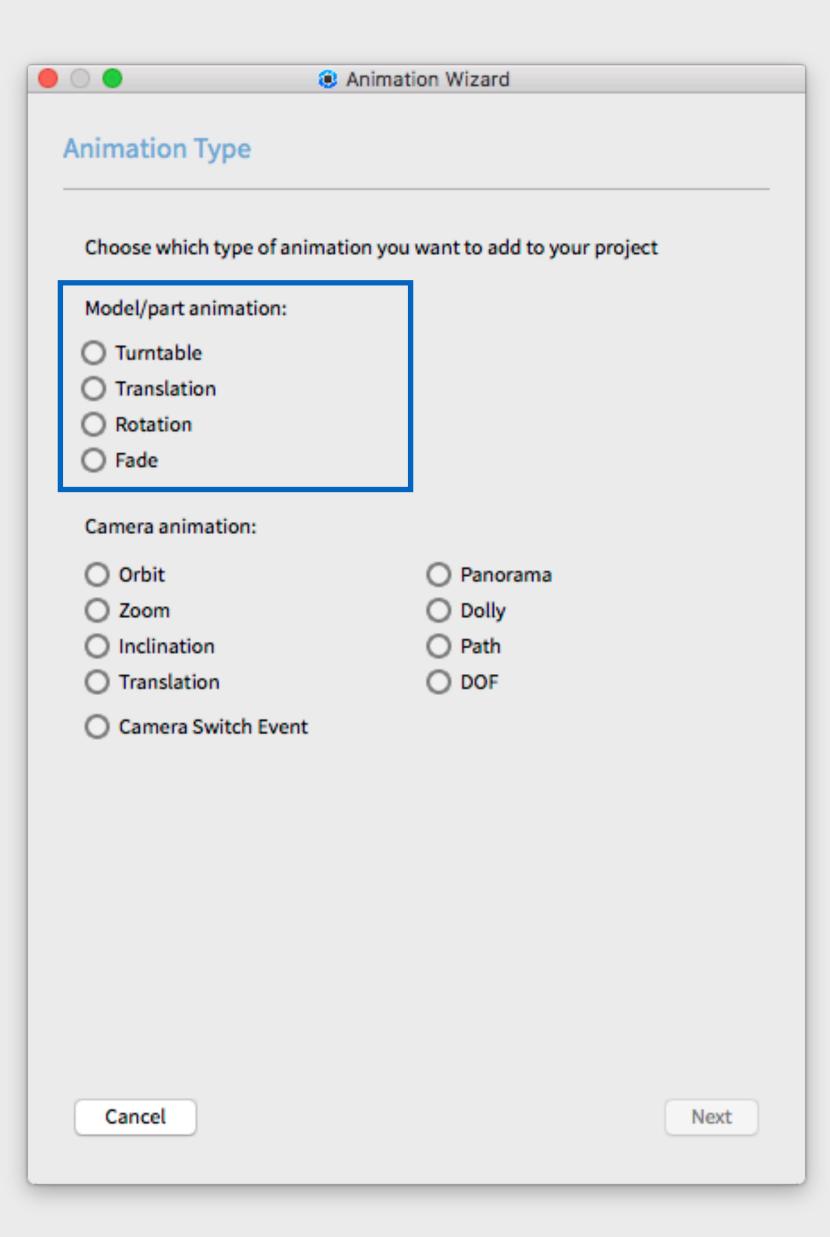
Local Axis Translation





Part Animations

- Turntable
- Translation
- Rotation
- · Fade





Turntable

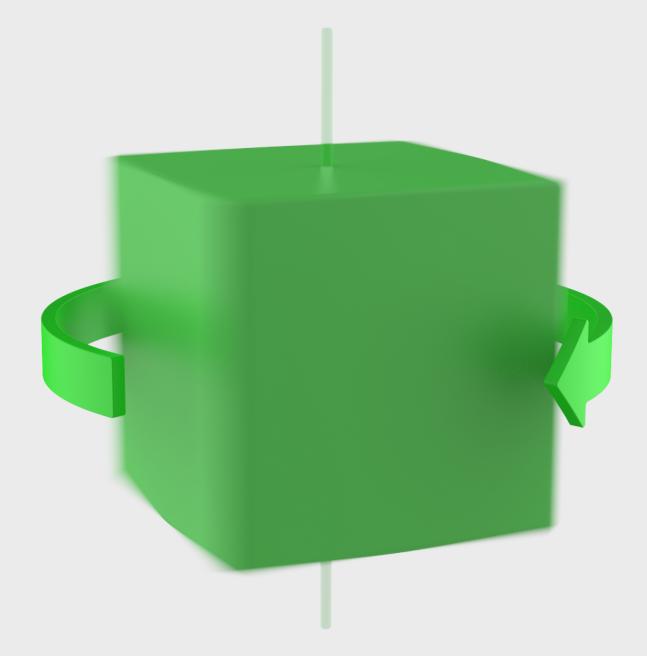
· Rotate a model around the KeyShot's up-axis (Y)

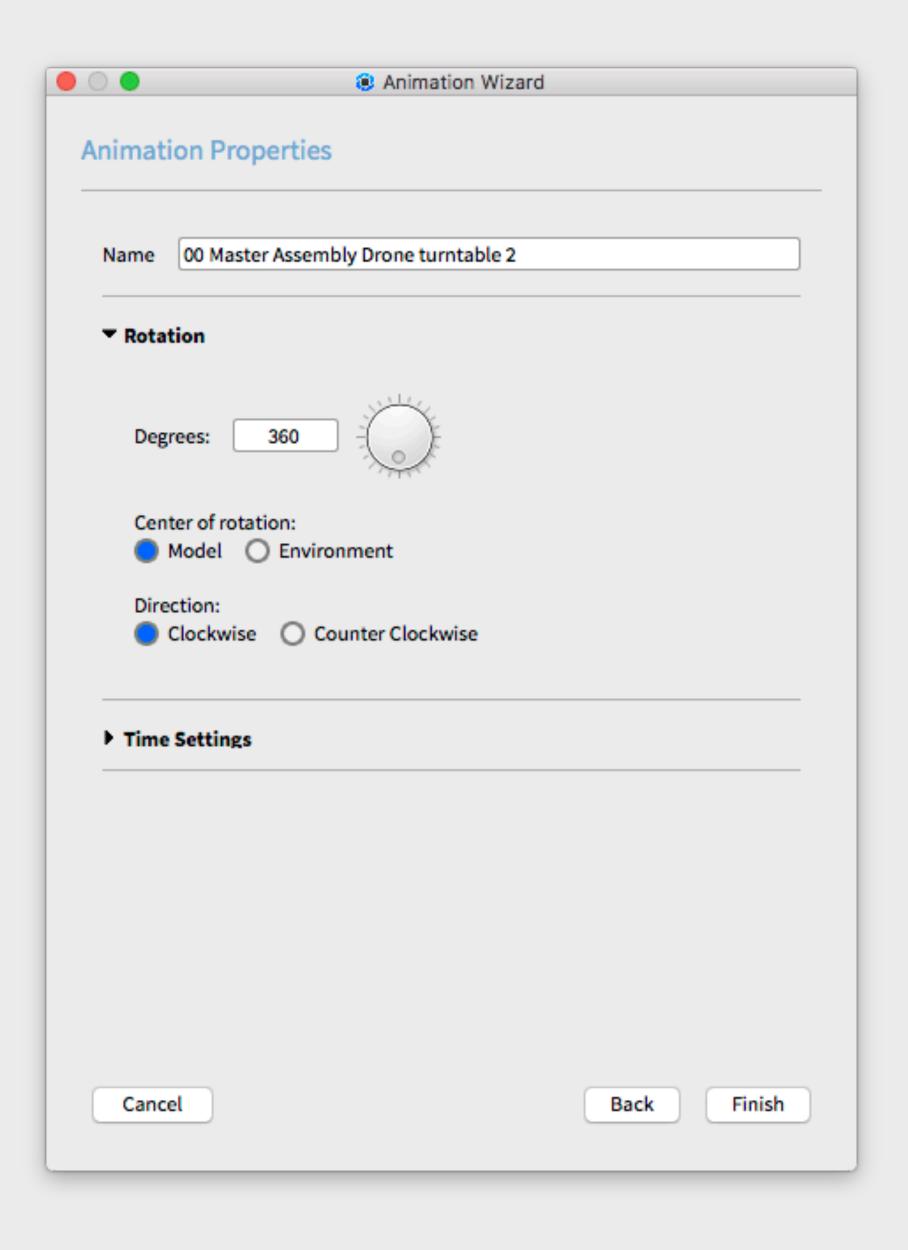
Properties

Degrees: Total number of degrees the model will rotate

Center of rotation: Model or environment center

Direction: Clockwise or Counter-clockwise (top view)







Turntable



Translation

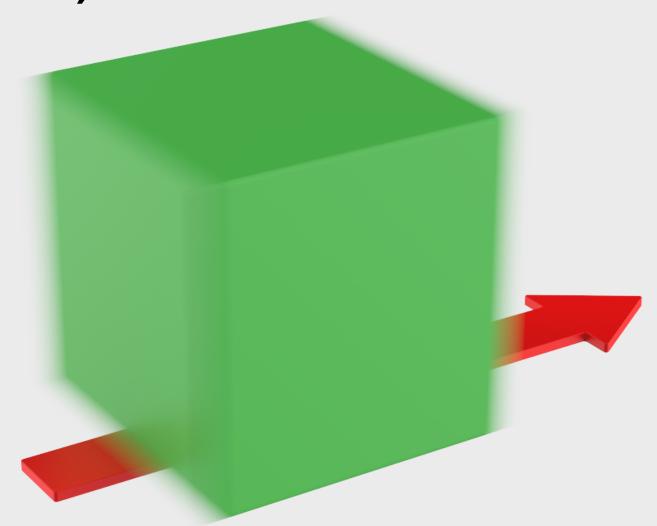
· Move a part in a linear direction

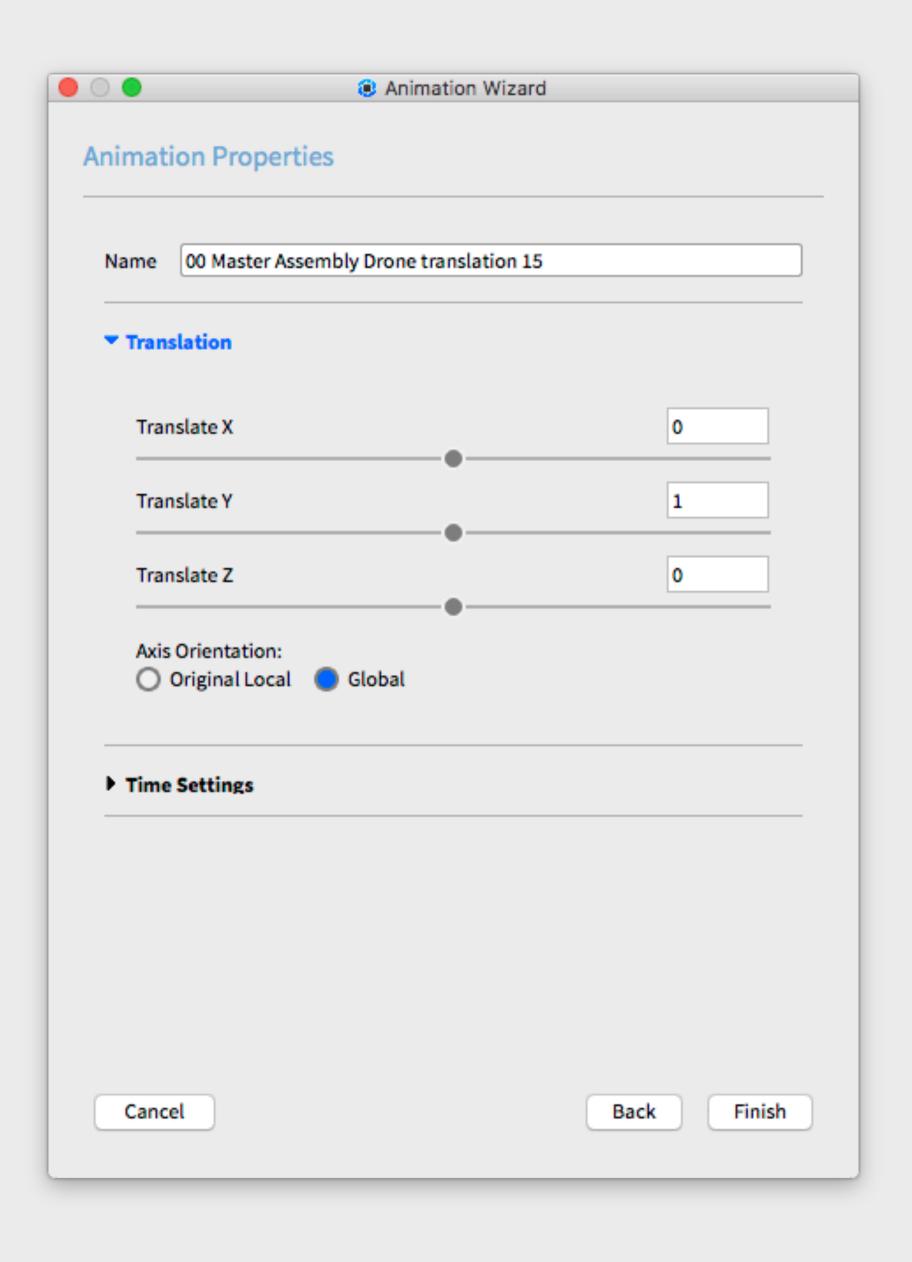
Properties

Translate X,Y,Z: Distance to be moved along each axis (enter negative values to move in opposite direction)

Values are in scene units (i.e. mm, in, cm)

Axis Orientation: Global (KeyShot's) or Original Local (Part's) axis









Rotation

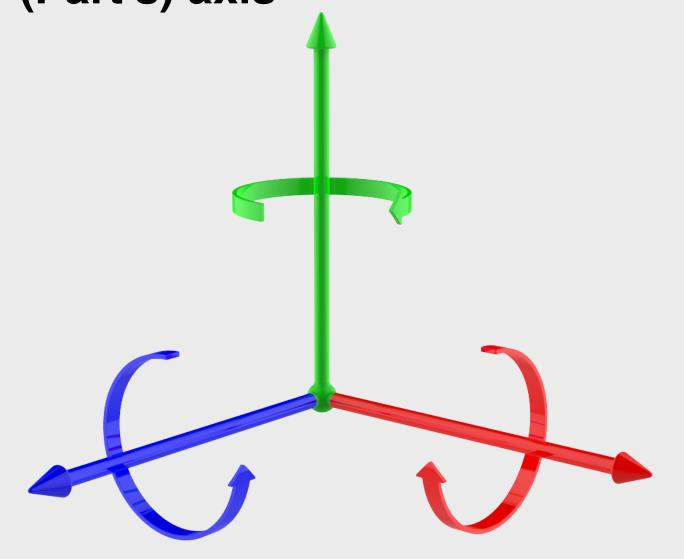
· Rotate a model or part around global or local axis, including pivots

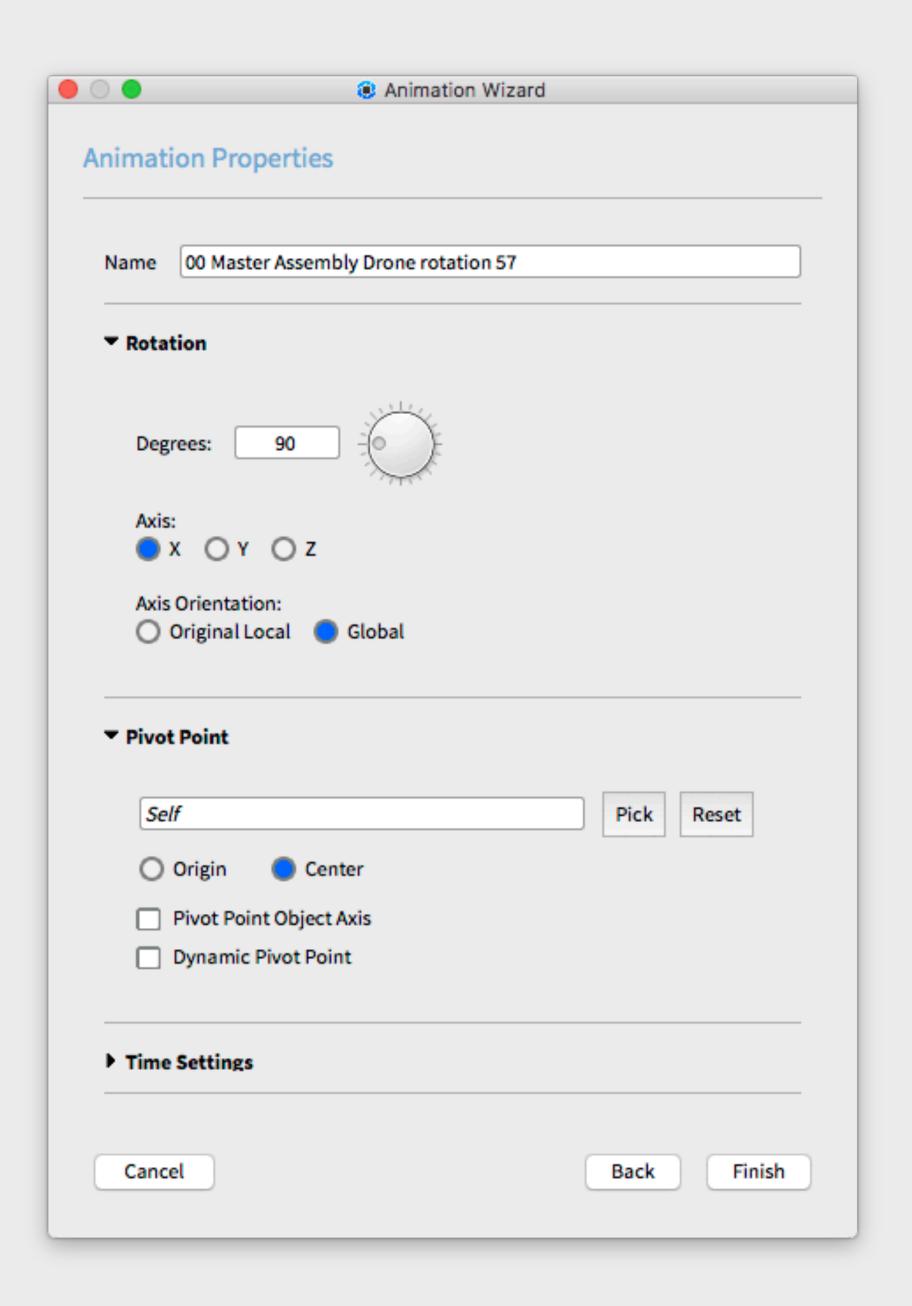
Properties

Degrees: Total number of degrees the model will rotate

Axis: X, Y, Z

Axis Orientation: Global (KeyShot's) or Original Local (Part's) axis









Fade

· Animate the opacity of a model or part

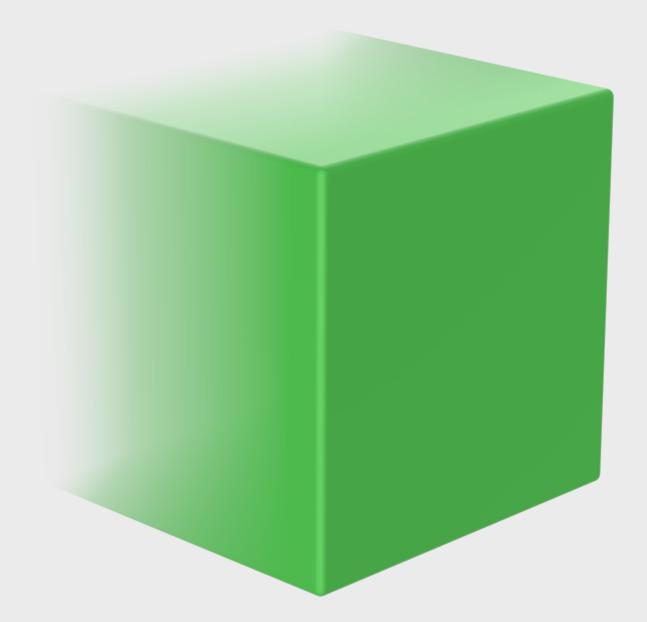
Properties

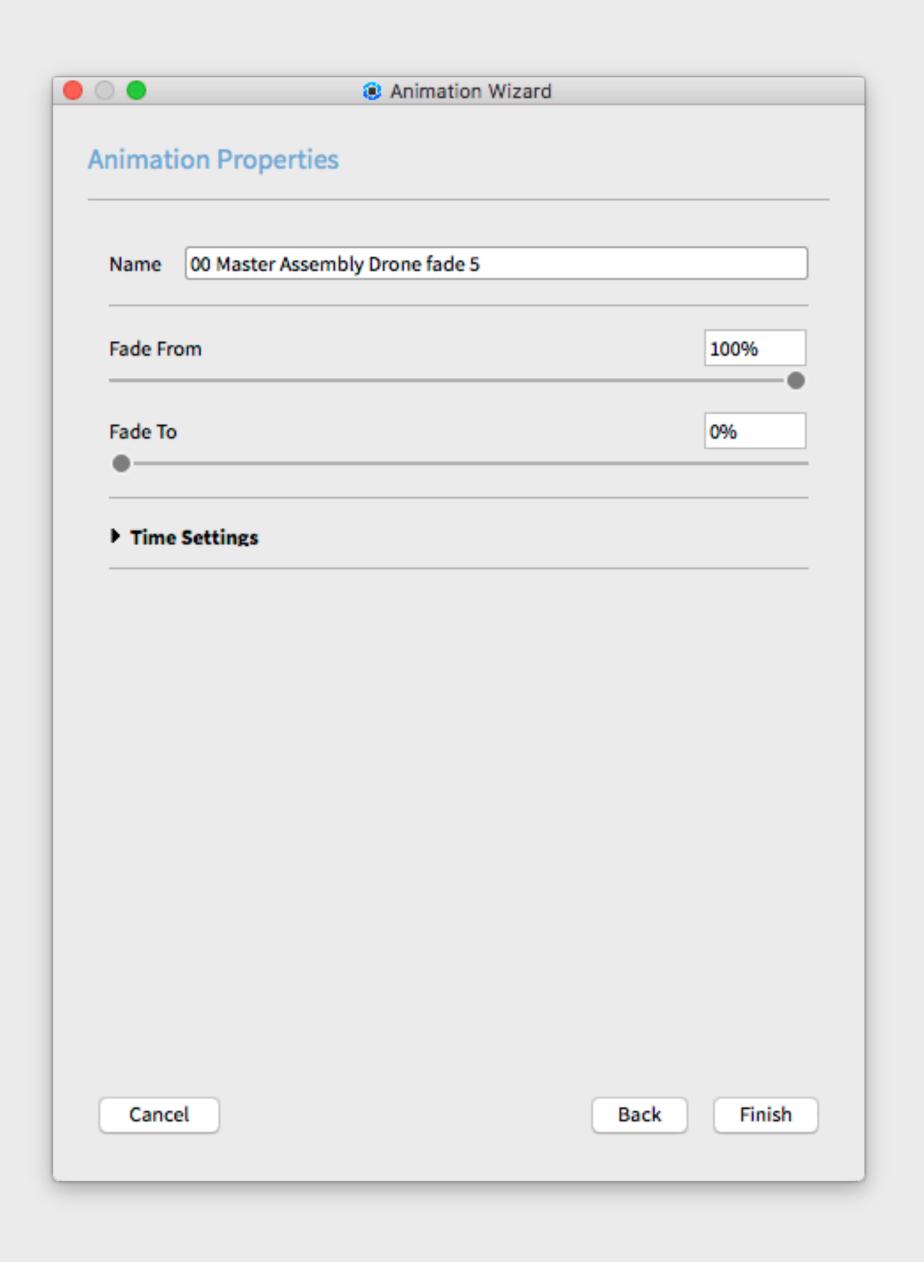
Fade From: Starting opacity

Fade To: Ending opacity

Best Practice: Fade out before trying to fade in for best

results







Fade



Time Settings

- · Control the timing or speed of animation
- · All animations share the Time Settings parameter

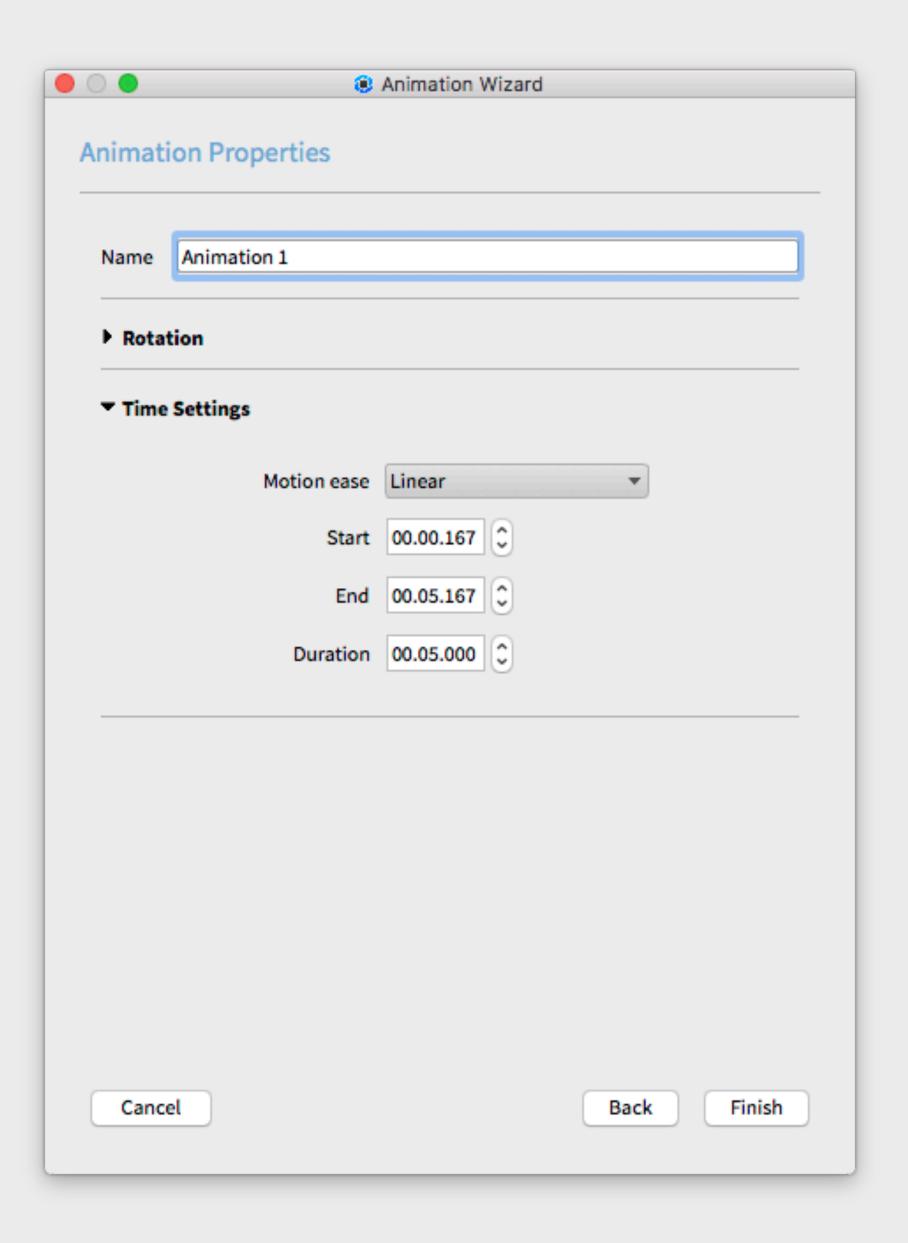
Properties

Motion Ease: Linear, Ease-in, Ease-out, Ease-in/out

Start: Beginning of transform in timeline

End: Conclusion of transform on timeline

Duration: Total length of transform





Linear Motion vs Easing

Linear Ease In, Ease Out



Motion Blur

Disabled Enabled







