



# **BEACON Newsletter - October 2024**

### Creating Interactive Animations with SOLIDWORKS Visualize

Interactive Images are a great export option within Visualize Professional, allowing you to view the model in a series of 360 orbital spins within a web browser.

#### Interactive Image:

An interactive image is a collection of rendered images that are viewed and controlled within a HTML file.

Choose Interactive Image under the Output Mode and select a single orbit. This will create only a single spin around the model, however the number of images will be the number of stills created in our animation.

Render this at Preview mode, at the same resolution as the Animation. We will be removing the still images and replacing them with the animation images instead.

Output Tools X			
Default Profile 👻 🗮			
	Output Folder C:\Users\REARLEY\Desktop\Interactive Image Blog\Interactiv		
	Image Format		
JPEG (*,jpg)			
555	JPEG (*,jpg)		
8	Include Alpha		
₿	✤ Interactive Image		
	Orbits Start Angle		
	1 0		
e l	Images per Orbit End Angle		
	300 0		
	▼ Resolution Size 1920 x 1080 Resolution 96.00 pixels/in ▼		
	Result		
	1920 x 1080 pixels, 20.00 x 11.25		
	Backplate Use Backplate Resolution		
Render Settings     Renderer Selection			
	Start Render Close		
	4		



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#### Creating the Animation:

Export the animation as individual frames by unselecting the Create Movie checkbox. I would also recommend naming the file Frame, for ease of compiling both the animation and Interactive Image in the next step.

Output Tools X						
Default Profile 🔹 🗮						
	Animation Options	Render Options				
	<ul> <li>✓ Output File</li> <li>Filename</li> <li>Frame</li> </ul>					
Image Format						
JPEG (*.jpg)       Render Output Passes       Movie Format						
				MPEG-4 (*.mp4)		
	Create Movie					
	Frame Range (Start/End)					
	Start Anima	tion Render				
	Clo	ose				



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#### Combining the Animation and the Interactive Image:

This is where the magic happens, we are going to replace the images within the Interactive Image with our animation instead!

Find the Image sub-folder within the Interactive Image and you will see the individual still with a sequential naming sequence. Delete all of these images an instead paste in your rendered stills from your animation. You will notice that the files from the animation have a slightly different naming structure, Frame\_0001 rather than Frame000001. We will need to change this behind the scenes.

Find the JS folder inside data, to reveal the hidden away JavaScript controlling the Interactive Image. Right click upon threesixty.js and choose to edit within Notepad. You will see the naming structure Frame#####.jpg listed.

```
threesixty.js - Notepad
File Edit Format View Help
threeSixty = {
    init: function () {
        this._vr = new AC.VR('viewer', 'images Frame_####.jpg'
                                                                   [300, 1], {
            invert: false
        });
    },
    didShow: function() {
        this.init();
    },
    willHide: function() {
        recycleObjectValueForKey(this, "_vr");
    },
    shouldCache: function() {
        return false;
    }
}
if (!window.isLoaded) {
    window.addEventListener("load", function() {
        threeSixty.init();
    }, false);
}
```

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#### Fine Tuning:

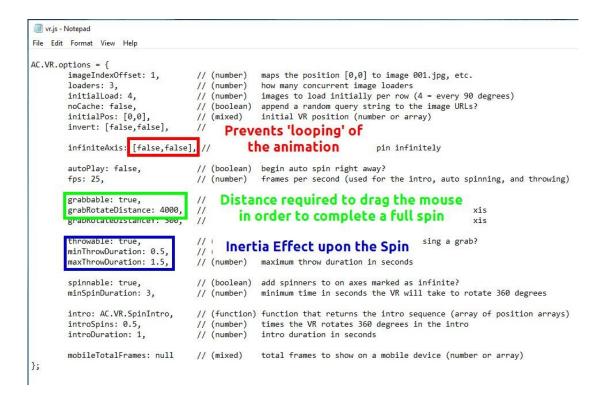
Want to fine tune your interaction with the model?

Edit the vr.js file and edit the 'InfiniteAxis' to read false, false.

This will prevent the animation looping and going back to the start.

Change the 'Grabbable' values to alter how far you need to drag your mouse to play through the animation.

The 'ThrowDuration' allows you alter the inertia and how long the effect continues after you have released your mouse.



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