# **WatchKit Animation Tutorial**

One of the most surprising things about WatchKit is that we no longer get to use our favorite UIKit components. Instead, we're dealing with WKInterfaces, which do not have a layer property for us to animate with. Instead, to animate on the Watch, we have to essentially flip through many images.

So let's get started!

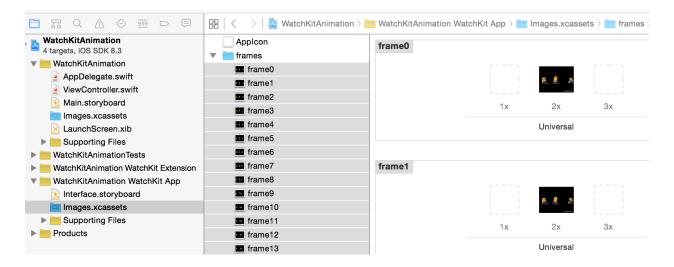
### Start a New WatchKit Project

Follow the **Hello**, **WatchKit Tutorial** to set up a new WatchKit project. Make sure your Watch App runs properly.

### **Import Animation Images**

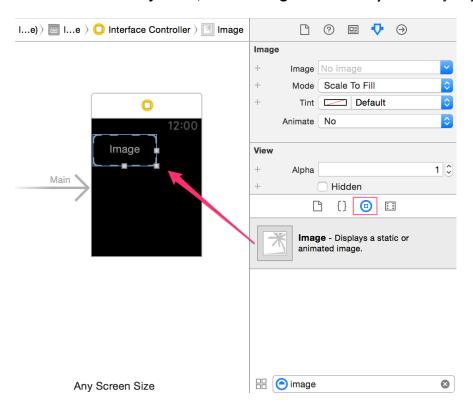
For this tutorial, I took a <u>fun gif of Minions playing soccer</u>, and used a random <u>Gif Splitter</u> I found online to extract the individual frames from the gif. I then renamed the results to be all of the same name, but with the frame number at the end, ending with @2x.pngs. You can see the resulting frame images in the **AnimationAssets** folder of this tutorial.

**Import** these images into the **Images.xcassets** folder in your WatchKit App (NOT the WatchKit Extension! This will make sure that the asset is readily available on the Watch instead of having to get the image from the iPhone via Bluetooth).

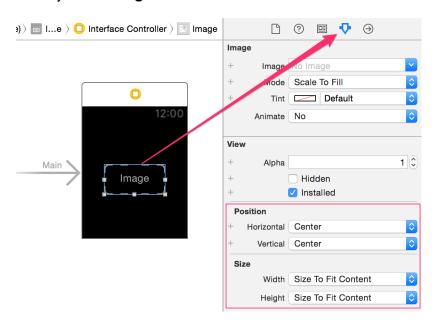


## **Create the Image Interface**

1. In Interface.storyboard, add an Image from the Object Library to your Interface Controller



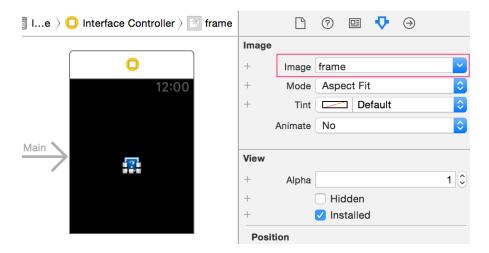
2. Adjust the Image Position and Size



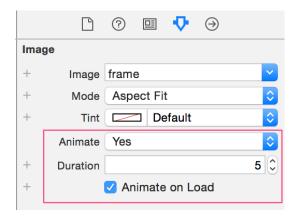
### **Create Animation**

### In Storyboard

1. In **Interface.storyboard**, set the Image to the core animation image name (drop the numbers at the end!) - in our case **frame**. You will not be able to see the image.



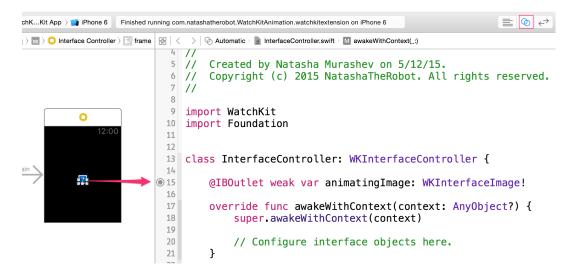
2. Change the **Animate** option to **Yes** and set the **Duration to 5 seconds**.



3. That's it! Now just run the app to see the animation.

#### In Code

- 1. Set the **Animate** option for the Image back to **No** we'll animate in code this time!
- Create an @IBOutlet for your Image



3. In your InterfaceController, Control + Click on WKInterfaceImage to bring up the Image documentation. Notice this is NOT a UIImage, it is very limited. Notice the three animation methods:

Try out the startAnimating() method.

```
class InterfaceController: WKInterfaceController {
    @IBOutlet weak var animatingImage: WKInterfaceImage!
    override func awakeWithContext(context: AnyObject?) {
        super.awakeWithContext(context)

        animatingImage.startAnimating()
}
```

5. Run the app to see what the default animation looks like.

6. Try out the startAnimatingWithImagesInRange:duration:repeatCount:

- 7. Run the app to see what the animation option looks like with your custom parameters.
- 8. Adjust the parameter input and re-run the app.