

WatchKit

Hands-On Challenges

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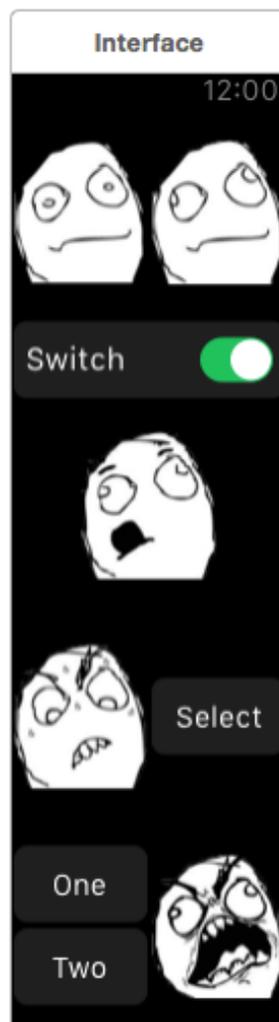


Challenge A: Layout

Now that you know how to use groups and how to position and size your interface elements, it's time to tackle a more complex layout!

You can nest groups inside groups to get things to align properly, and that's part of what you'll get a chance to try.

The challenge is simple: add a new interface controller (you can add this to the existing MoodTracker project) and create an interface that looks like the one below!

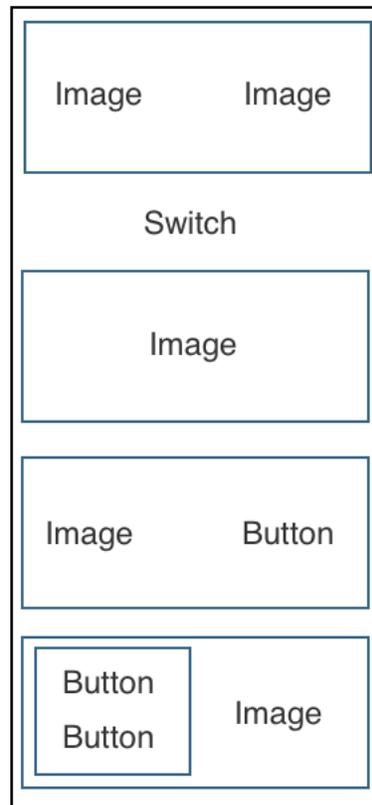


There's more than one way to do this, so the way your interface is built might not match ours exactly even though they look the same. Before you turn the page for our solution, give it a try yourself!



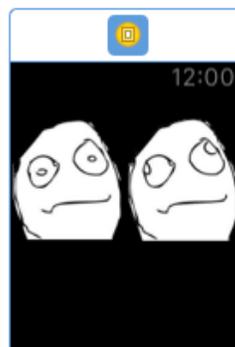
Solution

Here's the overall blueprint, with groups in blue outlines:



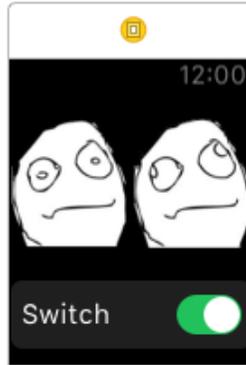
First, there are the two side-by-side images. Add a new group to the interface and make sure its layout is set to **Horizontal**.

Drag two images into the group and set both of their widths to **Relative to Container** with a value of **0.5**. Set both image modes to **Aspect Fit**. Set the left image to **rage0** and the right image to **rage1**.



Next, is the switch. Drag a switch underneath the first group of images. That's it! We had to throw in an easy one to keep you guessing. ;]

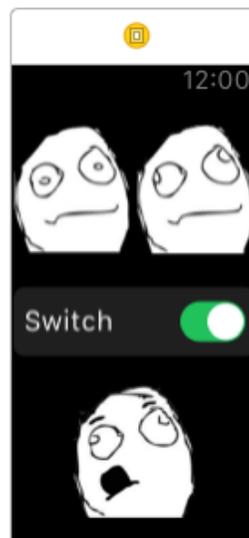




Next up is the centered image. If you look ahead, you'll notice the next two images are also in a group, so for consistency, we'll wrap this image in a group too although that isn't strictly required.

Add a new group underneath the switch. By default, it should have a width relative to container with a multiplier of 1, so it will be the entire width of the screen.

Drag an image to the group. Set its mode to **Aspect Fit** and its horizontal position to **Center**. If you look closely, you'll see the image should be the same size as the ones on the top, so set its width to **Relative to Container** with a multiplier of **0.5**. Then, set its image to **rage2**.



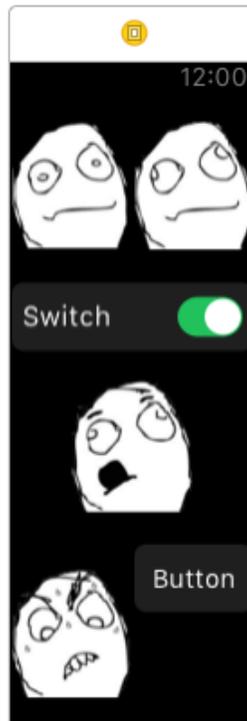
Looking good so far!

Next, is an image next to a button. This will be very similar to the first pair of images.

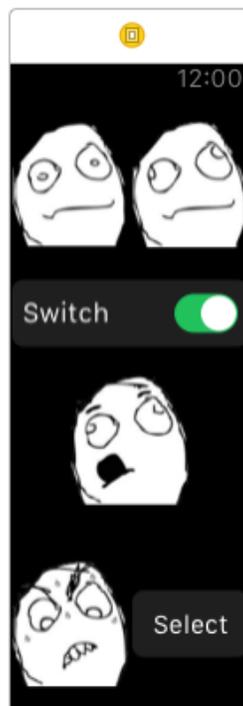
Add a new group to the bottom of the interface. Drag an image and then a button into the group. You want them both to take up half the space, so set both their widths to **Relative to Container** with a multiplier of **0.5**.



Set the image mode to **Aspect Fit** and set the image to **rage3**.



Close, but that button needs to be vertically centered! Change the button's vertical position to **Center** and set its title to **Select** to match the example.



Double nesting

Here's the big challenge: nesting a group inside a group!

First, add another group to the bottom of the interface. Then, add a group *inside* this group. We'll call this one the *inner group* from here on. Set the inner group's width to **0.5** relative to the container.

Next, add an image next to (not inside!) the inner group. Set the image mode to **Aspect Fit** and set its width to **Relative to Container** with a value of **0.5**.



You can check the nesting in the document outline too.

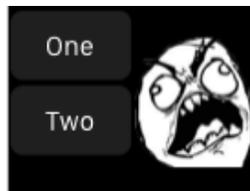


Set the image to **rage4**.

Now, the inner group needs to have two buttons stacked vertically. Change the inner group's layout to **Vertical**.

Then, add two buttons to the inner group. It might be easier to drag them from the object library into the document outline rather than right into the group, but either will work.

Set the top button's title to **One** and the bottom button's title to **Two**.



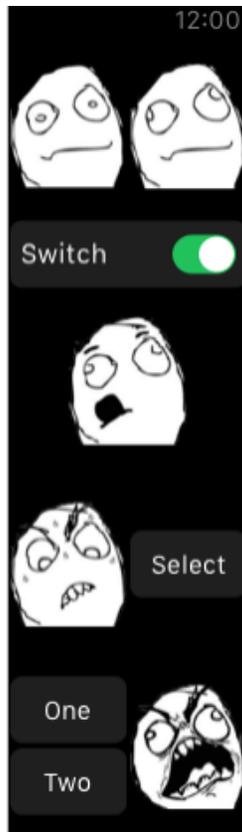
That looks pretty good!

If you look closely and compare it with the reference image, you'll see the two buttons are too high – they start above the image.

This is happening since the image is taller than the two buttons. However, the inner group that holds the buttons has its vertical position set to **Top** by default, so they're leaving too much space at the bottom.

Select the inner group – again this will be easier to do from the document outline. Set its vertical position to **Center**.





And there you have it!

You should be feeling good about positioning and size, and as calm as that **rage0** face in the top left!

