

# Adaptive Layout

Hands-on Challenges

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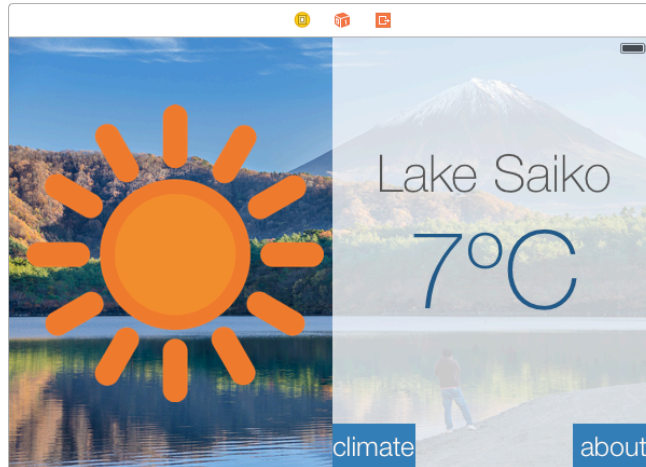
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# Challenge 02: Horizontal Buttons

You've seen how easy it is to uninstall constraints, move views around, and add new constraints for more specific size classes.

In this short challenge, you'll re-position the two buttons on the main weather display to line up horizontally rather than vertically on compact height screens.

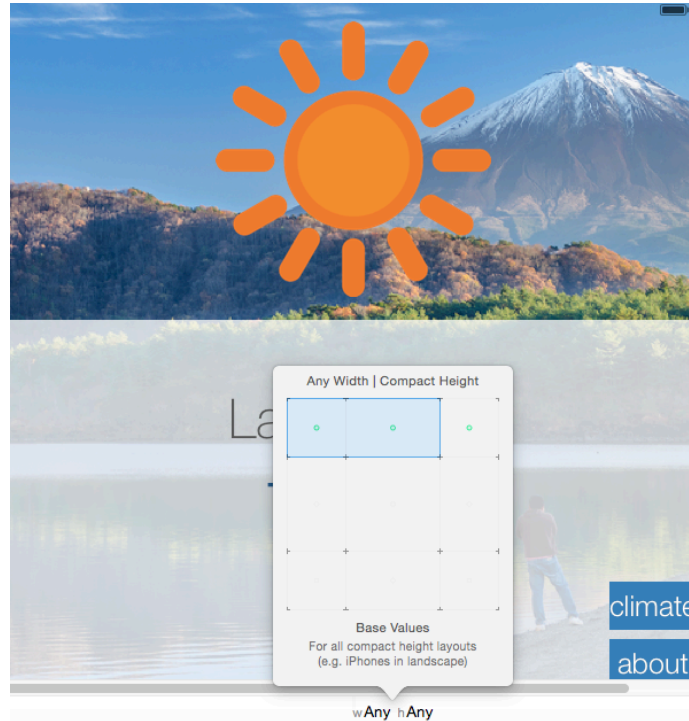


If you're up for it, there's an über-challenge at the end where you'll take an entire view controller and apply what you saw in the demo. Read on!

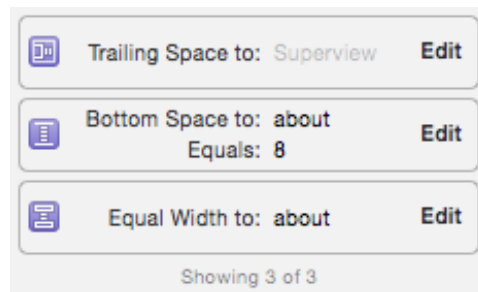
## Clearing out constraints

Open the storyboard and switch over to the **Any** width, **Compact** height size class.





Select the Climate button to start. Open the Size inspector and you'll see there are three constraints.



Uninstall the trailing space and bottom space constraints. That'll leave just the equal width constraint to the about button, which can stay.

## Re-position and constrain

Drag the climate button to the bottom-left corner of the shaded view as shown in the first screenshot.





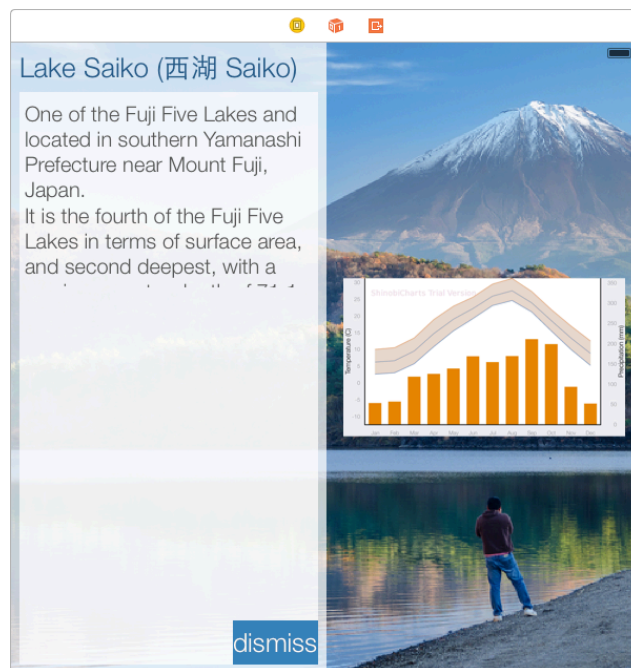
Now that it's in the correct spot, it needs constraints! You'll need to pin the bottom and trailing edges to the superview. Select the button and open the **pin** dialog, and pin the left and the bottom edges.

And that's it! Check out the preview or build and run to see the results in landscape.

## Uber Haxx0r Challenges: Landscape to Portrait!

In the demo and the above challenge, you updated a more "vertical" layout to look good on compact height landscape-style screens.

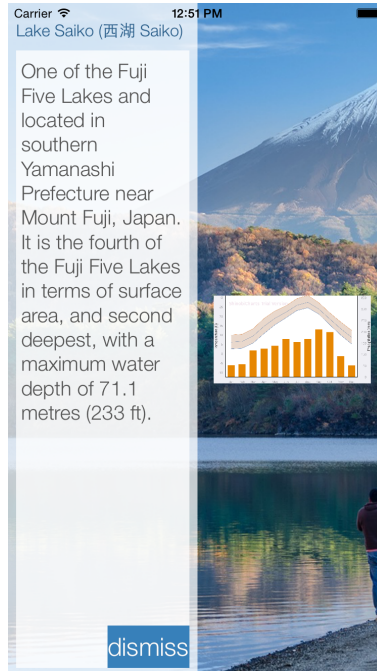
The Climate information screen in the app has its base layout in a side-by-side fashion:



You can access this screen by tapping the **climate** button.

The problem here is things get a little cramped on iPhone portrait:





You've seen how to turn a "portrait" style layout into a "landscape" one. Now your challenge is to do something like the reverse, and get this layout looking good in portrait!

Here's what one possible solution might look like:



You'll probably want to use the **Compact** width, **Any** height size class for your set of overrides.

The actual set of steps will be similar to what you've already done here in the challenge in in the demo:

- Plan out how the layout will fit together. This view is similar to the main weather view in that it has an image and a shaded view with the text content.
- Switch to the size class and uninstall any unneeded constraints.
- Re-position and re-size the views, or set the constraints and "update frames" towards the end.

If you need some more hints, check out the über-challenge solution project for one possible way to do it.

