iOS: Size Classes

BNRG CHAPTER 17
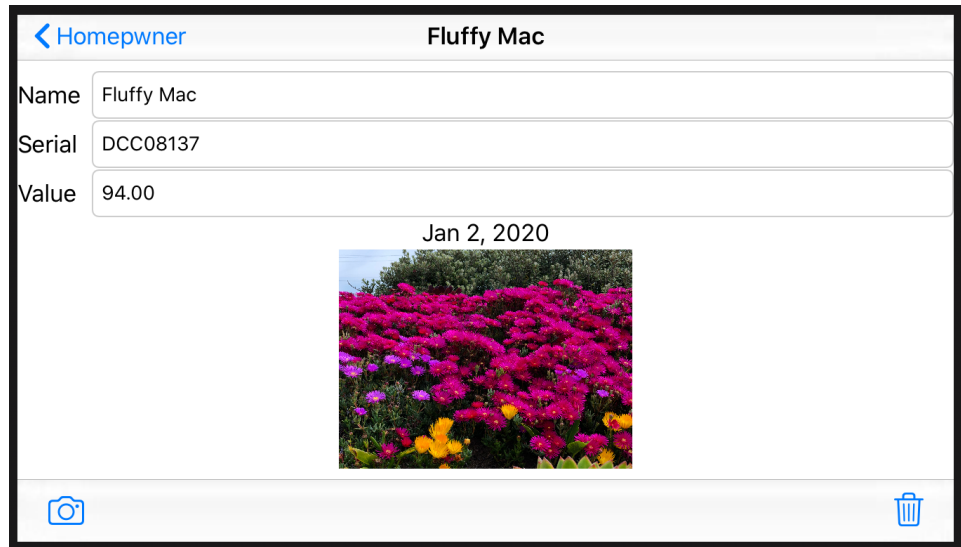
Topics

▶ Screen dimensions and UI layout

▶ Size-specific classes

Screen Dimensions and UI Layout

To work well, an app needs to account for different possible screen dimensions of the device on which it is running
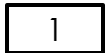
This might require size-specific layouts

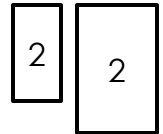*Example: this is not a good layout for a horizontal screen*

Size Classes

▶ The relative sizes of screens are defined in *size classes*

▶ Each dimension (height, width) can be either compact or regular
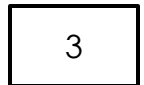
▶ So this gives us four combinations of size classes:

1. compact width and compact height: iPhones with 3.5", 4", or 4.7" screens in landscape orientation
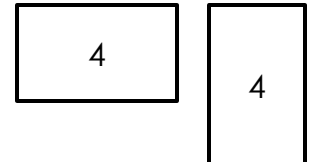
2. compact width and regular height: iPhones of all sizes in portrait orientation

3. regular width and compact height: iPhones with 5.5" screens in landscape orientation

4. regular width and regular height: iPads of all sizes in all orientations

Modifying Traits for a Specific Size Class

When we are modifying the interface for a specific size-class combination, we can change these characteristics:

▶ properties for many views

▶ whether a specific subview is installed

▶ whether a specific constraint is installed

▶ the constant of a constraint

▶ the font for subviews that display text

Creating Size-Class Specific Layouts

Creating size classes for an interface is simple (just a few steps in Interface Builder)
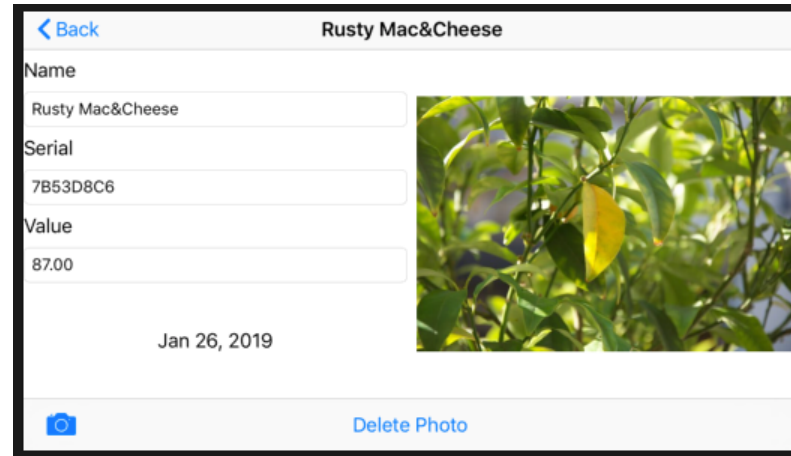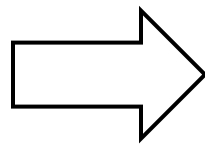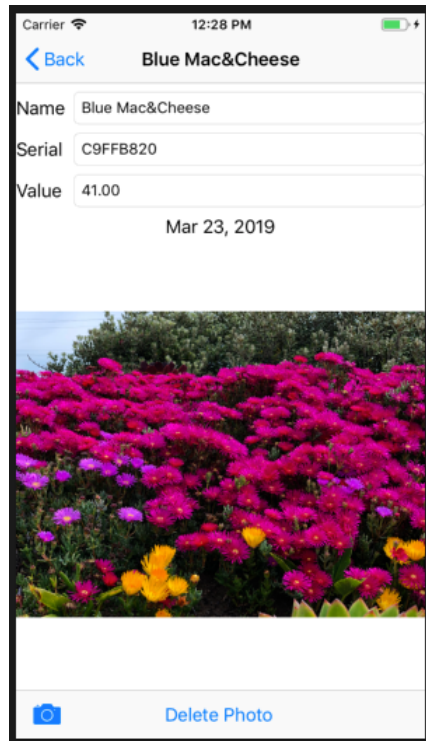
▶ but it's valuable!

Keep these ideas in mind as you build your own interfaces

Another valuable guideline: **design first for smaller devices**!

Size-Specific Classes

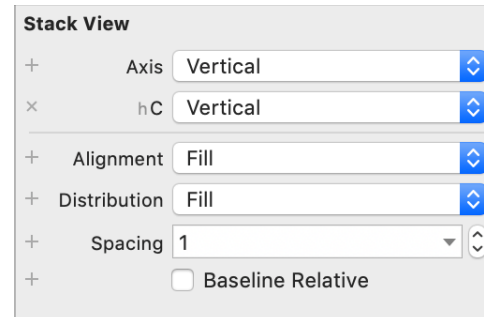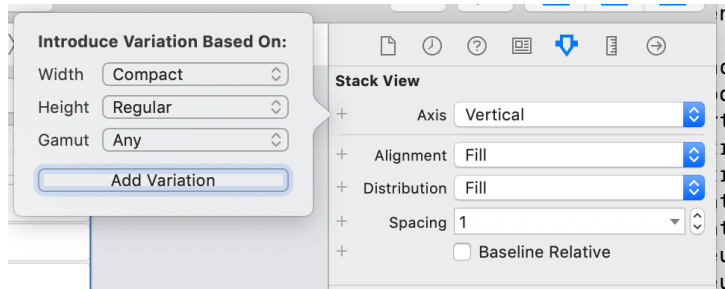The work in Ch. 17 is to adjust view properties based on size class

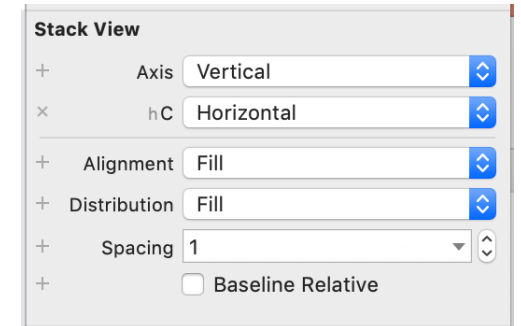▶ put the image view on the right-hand side of the labels and text fields

Size-Class Specific Option

For for stack view

▶ add a size-class-specific option

▶ by clicking on the + next to property for which we want a new option (here, Axis, for the outer stack view)

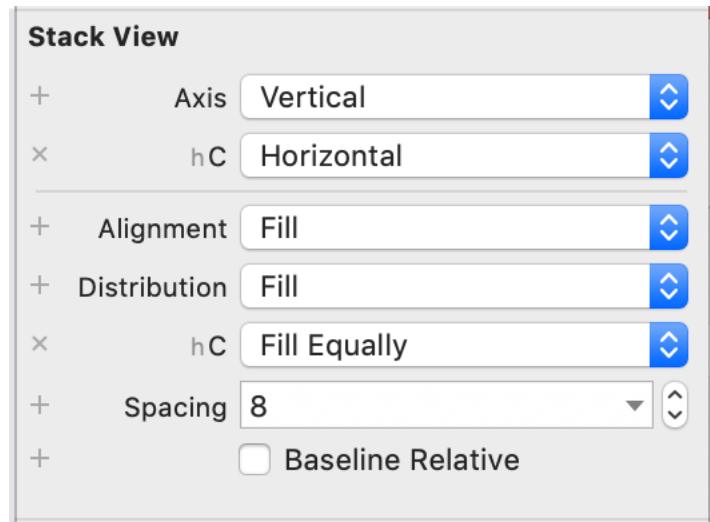after picking "Any" for Width and "Compact" for Height

then Horizontal for hC: when the interface has a compact height, the outer stack view will have a horizontal configuration

Size-Class Specific Option

Final thing to do is to change the hC variation of the outer StackView to "Fill Equally"

Bronze Challenge

Do the Bronze Challenge on p. 313

▶ it's easy!

instead of this:

Name	item name
Serial	FT67SK3FYK
Value	56.00

image

this:

Name

item name

Serial

FT67SK3FYK

Value

56.00

image