What's New in iOS8 - UIKit
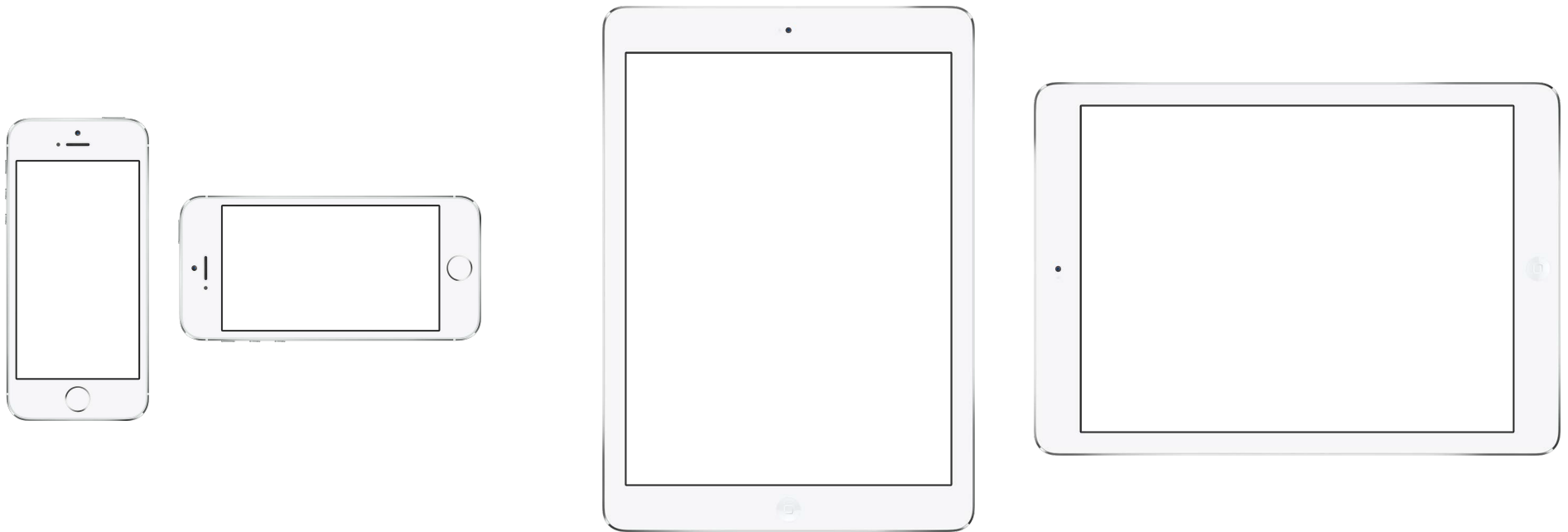

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Outline - DELETE!!!!!!

- Size classes - Universal story boards   - enhanced preview mode - size class choice - aspect ratio constraint
- IB features
- Traits
- Traits + Appearance Proxy
- Traits + Animation
- SplitView Controller
- UIPresentationController
- New ViewController transitions (i.e. no more push)

- Hides bar on tap
- Condensing bars
- UIPresentationController
- viewWillTransitionToSize:withTransitionCoordinator:

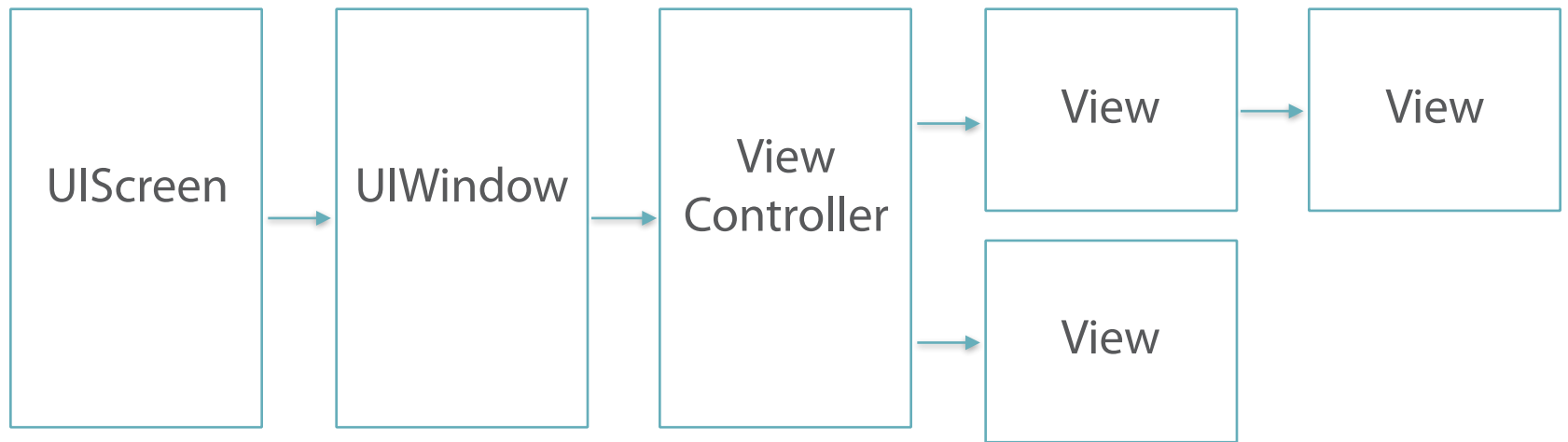UIInterfaceOrientation UIUserInterfaceIdiom

Size Classes

- Apple's way of dealing with "Responsive" design in iOS 8
  - Xcode takes care of backward compatibility to iOS 7
- SizeClass is really just an enum -
  - Unspecified (aka Any)
  - Regular
  - Compact
  - More to come in the future?????
- At runtime, one instance each for height and one for width
- Covers different devices and orientations
- Views and Constraints can vary based on which Size Class is being applied

	Compact	Regular
Compact	▬	▬
Regular	▮	◼

Trait Collection

- Size Classes are stored in an object named UITraitCollection
- Has the horizontal size class and vertical size class
- Also specifies the display scale

TraitCollection Hierarchy

| UIScreen | → | UIWindow | → | View Controller | → | View | → | View |

+ Auto Layout

- Size Classes integrate with Auto Layout
- Constraints can be conditional and/or modified based on Size Class
- IB in Xcode 6 includes support for applying Size Classes to Constraints

+ Views

- Views can be "installed" or "removed" from the hierarchy based on Size Class

UIKit Views

- Many have been enhanced to deal with Size Classes

UIImage

- Many have been enhanced to deal with Size Classes

UISplitViewController

- Split View Controller in iOS 8 has inherent support for Size Classes

```
showViewController:sender:

showDetailViewController:sender:
```

New APIs for UIViewController transitions