AutoLayout

- There is a bunch different ways to make a constraints "Reset to suggested constraints" "Ctrl-drag" to edges or other views "Pin Menu" by writing a "code" (won't be covered)
- © Constraints are inspectable

 Can be inspected by going to "Size Inspector"

 Can be inspected directly from a "storyboard"

 Can be inspected from a "Document outline"
- Mastering an AutoLayout takes an experience There is almost no structured way of building an AutoLayout Just master a lot of UI and learn by warnings (errors)

AutoLayout

- But all previous instructions are NOT enough Simple auto layout cannot handle when your geometry changes dramatically You need relay your views to fit properly on the screen
- Calculator
 For example, you have 20 buttons
 It would be good to have 4 columns and 5 rows in portrait mode
 In landscape 5 columns and 4 rows
 Early constraining instructions won't be able to handle this
- "Size classes"
 The size class can tell you what state your width and height are in It's either "compact" or "regular"
 Good job "Apple"

Size classes

- @ iPhone
 - All iPhones are <u>compact</u> in width and <u>regular</u> in height in <u>portrait</u> In landscape are <u>compact</u> in both directions(width, height)
- iPhone Plus iPhone Plus is also compact in width and regular in height in portrait But in landscape, it's compact in height and regular in width
- iPad
 Always regular width and height in both mode
 Depending on an environment the width can be compact(master of a SplitView)

Size classes

Compact width

Regular width

Compact height

Regular height

iPhones (none Plus) in landscape

iPhones
in portrait
or
SplitView master

iPhone Plus in landscape

iPads in portrait or landscape

AutoLayout

- What can we do based on Size classes We can vary many properties of UIView For example, fonts, color, background color, isHidden etc.. Basically all properties that have a plus sign on the left
- © Constraints can be controlled by "Size classes" by doing this, you can arrange your UI very differently in different situations All this can be done by a storyboard

Demo