



# HOW I LEARNED TO STOP WORRYING AND LOVE VOICEOVER

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∞ Sittercity



# AGENDA

1. CONTEXT
2. VOICEOVER
3. INTERACTIVE DEMO
4. DYNAMIC TYPE
5. WHY DOES IT MATTER?





Priority

is for customers with  
disabilities and seniors.  
Please move when requested.

AMT

0005

901

WATCH YOUR STEP

Priority Seating

is for customers with  
disabilities and seniors.  
Please move when requested.

AMT

Chicago

Wabash-Down



# AFFORDANCES



1 IN 5

PEOPLE IN THE US WITH A  
DISABILITY



VOICEOVER

3



## Diet Coke

Diet Coke (called Coca-Cola Light in some countries) is a sugar-free soft drink produced and distributed by The Coca-Cola Company. It contains artificial sweeteners.



## Lemon La Croix

Lemon LaCroix or La Croix is a lemon-flavored soda water or seltzer



## Apple juice

Apple juice is a fruit juice made by the maceration and pressing of an apple.



# UI ACCESSIBILITY PROTOCOL

# UIACCESSIBILITY PROTOCOL

```
extension NSObject {  
    var isAccessibilityElement: Bool  
}
```

# UIACCESSIBILITY PROTOCOL

```
extension NSObject {  
    var isAccessibilityElement: Bool  
    var accessibilityLabel: NSString?  
}
```

3



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3

```
label.accessibilityLabel = "Favorites"
```

# UIACCESSIBILITY PROTOCOL

```
extension NSObject {  
    var isAccessibilityElement: Bool  
    var accessibilityLabel: NSString?  
    var accessibilityTraits: UIAccessibilityTraits  
}
```

## UIACCESSIBILITYTRAITS

UIAccessibilityTraitButton

UIAccessibilityTraitPlaysSound

UIAccessibilityTraitStartsMediaSession

•

•

•

# UIACCESSIBILITY PROTOCOL

```
extension NSObject {  
    var isAccessibilityElement: Bool  
    var accessibilityLabel: NSString?  
    var accessibilityTraits: UIAccessibilityTraits  
    var accessibilityValue: NSString?  
}
```

```
var favorites: Int {  
    didSet {  
        label.accessibilityValue = "\(newValue) favorites"  
    }  
}
```

# UIACCESSIBILITY PROTOCOL

```
extension NSObject {  
    var isAccessibilityElement: Bool  
    var accessibilityLabel: NSString?  
    var accessibilityTraits: UIAccessibilityTraits  
    var accessibilityValue: NSString?  
    var accessibilityHint: NSString?  
}
```



```
label.accessibilityHint = "Switches between cameras"
```

# UIACCESSIBILITY PROTOCOL

```
extension NSObject {  
    var isAccessibilityElement: Bool  
    var accessibilityLabel: NSString?  
    var accessibilityTraits: UIAccessibilityTraits  
    var accessibilityValue: NSString?  
    var accessibilityHint: NSString?  
}
```

# ACCESSIBILITYLABEL

VS.

# ACCESSIBILITYVALUE

VS.

# ACCESSIBILITYIDENTIFIER

**FLOW & DISCOVERABILITY**

USE TITLES

# ACCESSION AUDITING

## Accessibility Inspector

Simulator... (iOS 11.3)

All processes



Run audit

Audit

Accessibility Inspector

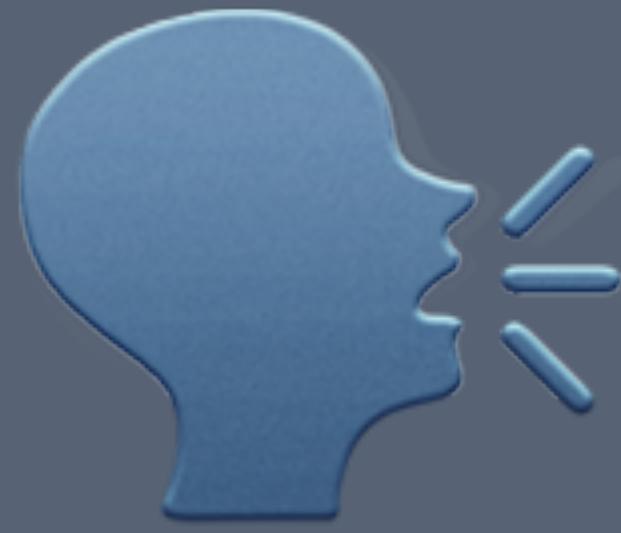
Simulator...8 (iOS 11.4) > All processes

Run audit

- ▶ ⚠ Contrast failed
- ▶ ⚠ Contrast failed
- ▶ ⚠ Contrast failed
- ▶ ⚠ Hit area is too small
- ▶ ⚠ Image name used in description
- ▶ ⚠ Dynamic Text font sizes are unsupported
- ▶ ⚠ Dynamic Text font sizes are unsupported
- ▶ ⚠ Dynamic Text font sizes are unsupported
- ▶ ⚠ Dynamic Text font sizes are unsupported
- ▶ ⚠ Dynamic Text font sizes are unsupported
- ▶ ⚠ Dynamic Text font sizes are unsupported



Clear Warnings 23 warnings



JUST DO IT



## Diet Coke

Diet Coke (called Coca-Cola Light in some countries) is a sugar-free soft drink produced and distributed by The Coca-Cola Company. It contains artificial sweeteners.

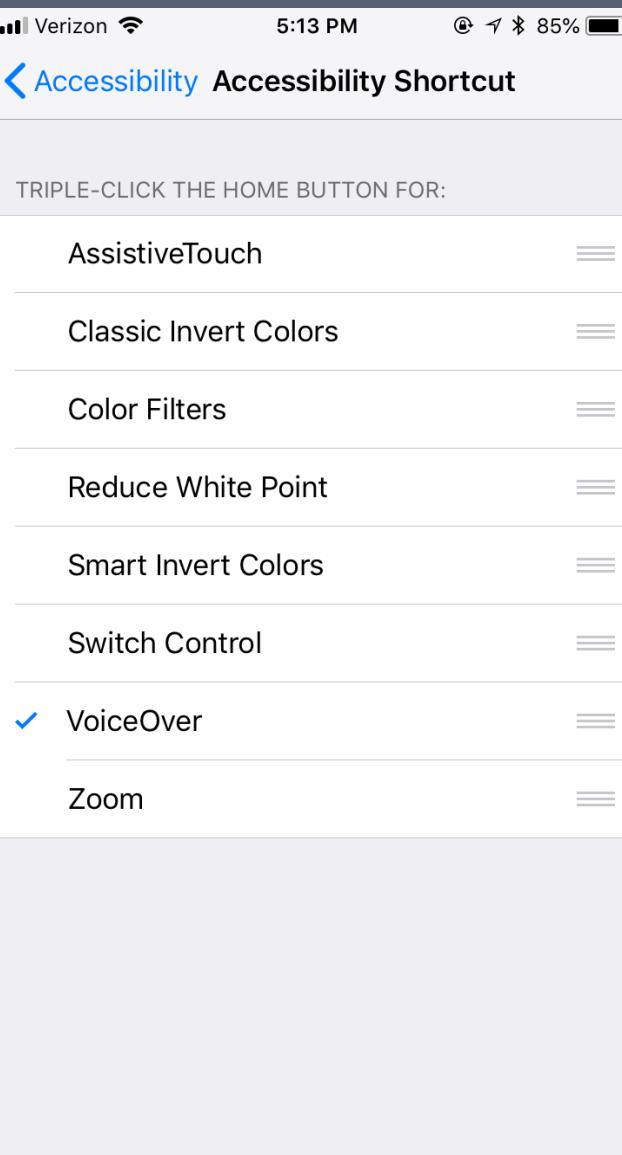


Soda

Seltzer

Juice

# GENERAL>ACCESSIBILITY>ACCESSIBILITY SHORTCUT



# SCREEN CURTAIN

1. TURN VOICEOVER ON
2. TAP 3 TIMES...
3. ...WITH 3 FINGERS

**DEMO TIME:  
TAKE A SELFIE!**

SETTINGS>GENERAL>  
ACCESSIBILITY>  
ACCESSIBILITY SHORTCUT  
VOICEOVER

< Accessibility Accessibility Shortcut

TRIPLE-CLICK THE HOME BUTTON FOR:

AssistiveTouch

Classic Invert Colors

Color Filters

Reduce White Point

Smart Invert Colors

Switch Control

VoiceOver

Zoom



DYNAMIC TYPE

Large Title

Title 3

Callout

Caption 1

Title 1

Headline

Subhead

Caption 2

Title 2

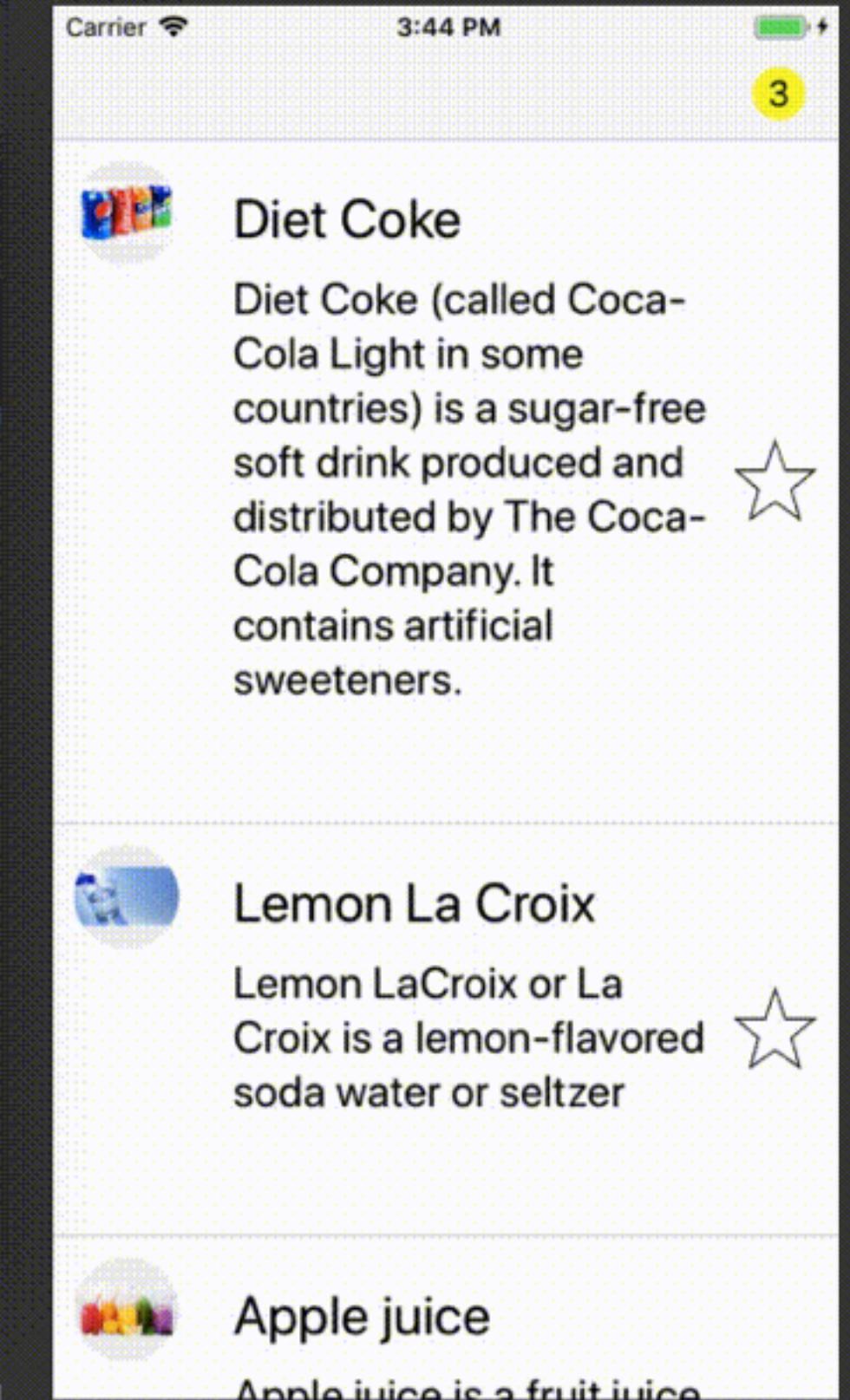
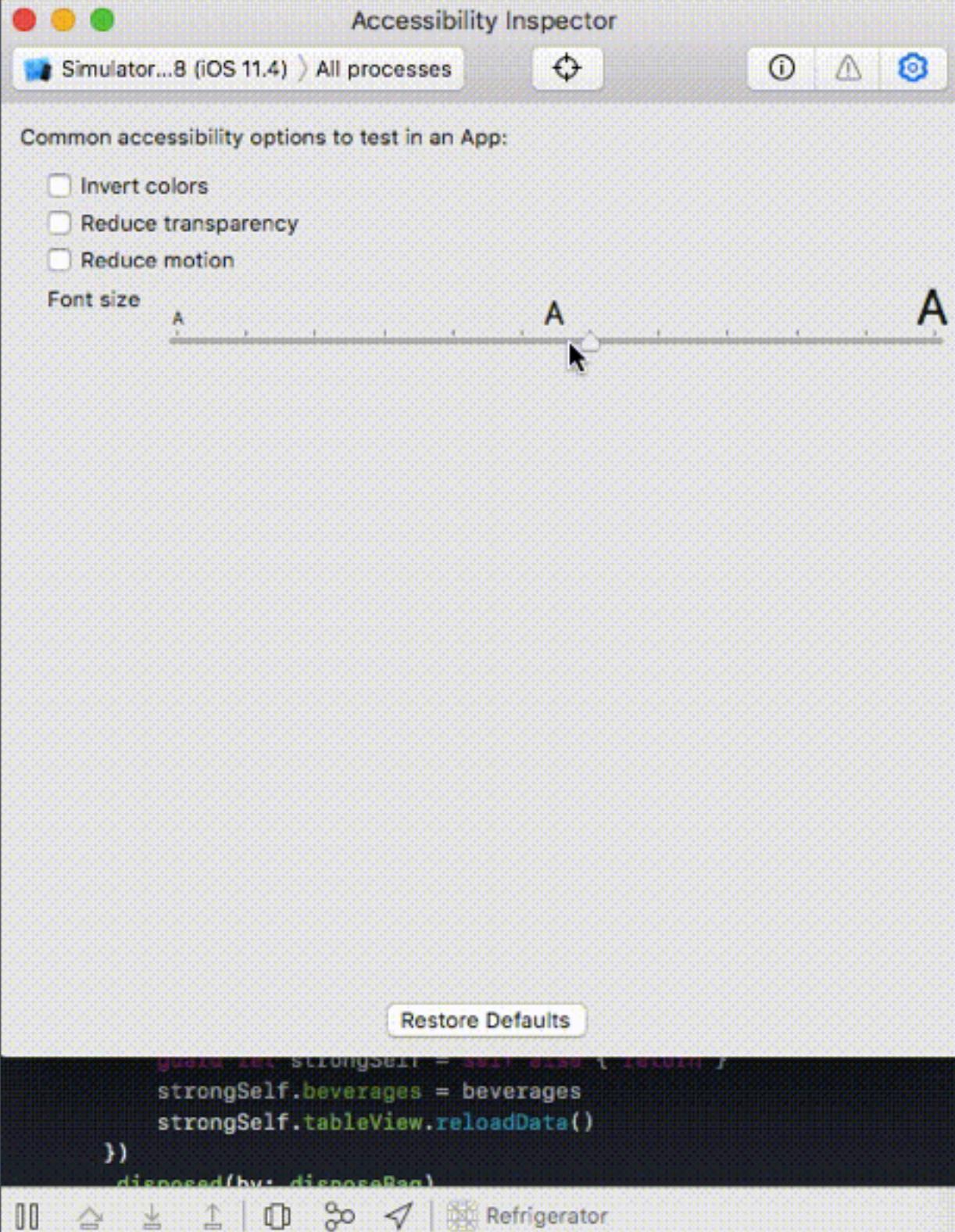
Body

Footnote

xSmall Small Medium Large (Default) xLarge xxLarge xxxLarge

## Large (Default)

Style	Weight	Size (Points)	Leading (Points)	Tracking (1/1000em)
Large Title	Regular	34	41	+11
Title 1	Regular	28	34	+13
Title 2	Regular	22	28	+16
Title 3	Regular	20	25	+19
Headline	Semi-Bold	17	22	-24
Body	Regular	17	22	-24
Callout	Regular	16	21	-20
Subhead	Regular	15	20	-16
Footnote	Regular	13	18	-6
Caption 1	Regular	12	16	0
Caption 2	Regular	11	13	+6

ViewController.swift  
Refrigerator



Font

Title 2



Dynamic Type  Automatically Adjusts Font

**CUSTOM FONTS,  
DYNAMIC TYPE,  
AND YOU**

-APPLAVIS  
-MEETUPS

**WHY SHOULD  
WE CARE?**

BETTER APPS  
FOR EVERYONE

# EMPATHY

# TAKEAWAYS

1. VOICEOVER
2. DYNAMIC TYPE
3. EMPATHY

**THANKS!**  
**@SELTZERPRINCESS**

**GITHUB.COM/RACHELHYMAN/360IDEV**