

Accessibility -- Up to 11!

Dani Devesa (@dadederk) Software Engineer @ Spotify







THE NUMBERS ALL GO UP TO 11!





0 - Starting from zero





0 - Starting from zero





"Conference Name. #a11yTo Conf. Text Field. Double tap to edit." Value Trait Hint



0 - Starting from zero



= true

comment: "")

UIAccessibilityTraitButton

"A value"

"Does something."





4d

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& YODA IS A CHARACTER FROM LUCASFILM







Paella

let attributes: [NSAttributedString.Key: Any] = [.accessibilityIPANotation: "pa'eʎa"]

recipeTitle.accessibilityAttributedLabel = NSAttributedString(string: "Paella", attributes: attributes)





Paella

let attributes: [NSAttributedString.Key: Any] = _accessibilitySpeechLanguage: "es-Es"]

recipeTitle.accessibilityAttributedLabel = NSAttributedString(string: "Paella", attributes: attributes)





Paella







2 - Go to Section Two...



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Step 1 - Show the Rotor



Step 2 - Navigate



From Artists to Genres:

10 flicks to the right vs 1 swipe down















3 - Notifications





3 - Notifications



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Your App

VoiceOver













3 - Notifications











let announcementString = NSAttributedString(string: notificationView.accessibilityLabel, attributes: announcementAttributes)

UIAccessibility.post(notification: .announcement, argument: announcementString)



let announcementAttributes = NSAttributedString_Key_accessibility SpeechQueueAnnouncement: true]





4 - Advanced Gestures



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The escape room















4 - Advanced Gestures



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It's a kind of magic







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5 - Accessibility Customizations





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* NSPECTOR GADGET IS A CHARACTER FROM DIC ENTERTAINMENT









if UIAccessibility. shouldDifferentiateWithoutColor { addColorSymbolsToCards() NotificationCenter_default. addObserver(self, selector: #selector(addColorSymbolsToCards), name: NSNotification.Name(rawValue: **UIAccessibility**. differentiateWithoutColorDidChangeNo tification), object: nil)







5 - Accessibility Customizations

Bold Text

Reduce Transparency

Reduce Motion

Button Shapes









* NSPECTOR GADGET IS A CHARACTER FROM DIC ENTERTAINMENT

On/Off Switch Labels



6 - Custom Actions



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From 1st post to 3rd post:

- \rightarrow Repost
 - \rightarrow User + Text
- \rightarrow Share \rightarrow User + Text VS
 - \rightarrow
- \rightarrow Repost
- \rightarrow Share

11 Swipes (+ redundant information) vs 3 Swipes









accessbilityCustomActions = [UIAccessibilityCustomAction(name: like, target: self, selector: #selector(likeButtonPressed(_:))), **UIAccessibilityCustomAction(name:** share, target: self, selector: #selector(shareButtonPressed(_:)))]





6 - Custom Actions



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5





7 - Voice Control























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9 - Alternative Layout



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* SUPER MARIO IS A CHARACTER FROM NINTENDO









if traitCollection .preferredContentSizeCategory isAccessibilitySizeCategory { cell = tableView .dequeueReusableCell withIdentifier: "alternativeCellId", for: indexPath) } else { cell = tableView .dequeueReusableCell withIdentifier: "defaultCellId", for: indexPath)







9 - Alternative Layout







10 - Come to the Dark Side





10 - Come to the Dark Side





10 - Come to the Dark Side







11 - Test!!!

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Simulator - R (105 130)		ર્ધર		/?⊡
Quicklook				
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Basic				
Label				
Value			Values	>
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Actions		Show	Perform Escape 'Z' Gesture	>
Element		Show	Arcers ibility Notifications)
		5/100		
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TSDACE togs IPS inspection adjuster				
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11 - Test!!!

- Shortcuts

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• Screen Curtain Environment Overrides

Accessibility \rightarrow Up to 11!

Dani Devesa (@dadederk)

GitHub code examples: https://github.com/Apress/developing-accessible-iOS-apps

KTHE LOONET TUNES ARE CHARACTERS FROM WARNER BROS

