## 3D Touch

Show your apps another dimension

# Agenda

Overview of 3D Touch and why it is awesome



Integration into your apps

Deep insight in the APIs

# History

- 3D Touch, comes in every iPhone after 6s (Sept. 2015)
- Detects the pressure exerted on screen
- iOS 9 APIs made available to developers

## Why integrate 3D Touch?

- It's cool, duh! 「\\_(ツ)\_/「
- Users can fast track features 🕨 🕨
- 400 million+ iPhones with 3D Touch compatibility 60
- Users can go directly to an action from app icon
- App Store visibility





#### Where can you use 3D Touch? 😐 🤪

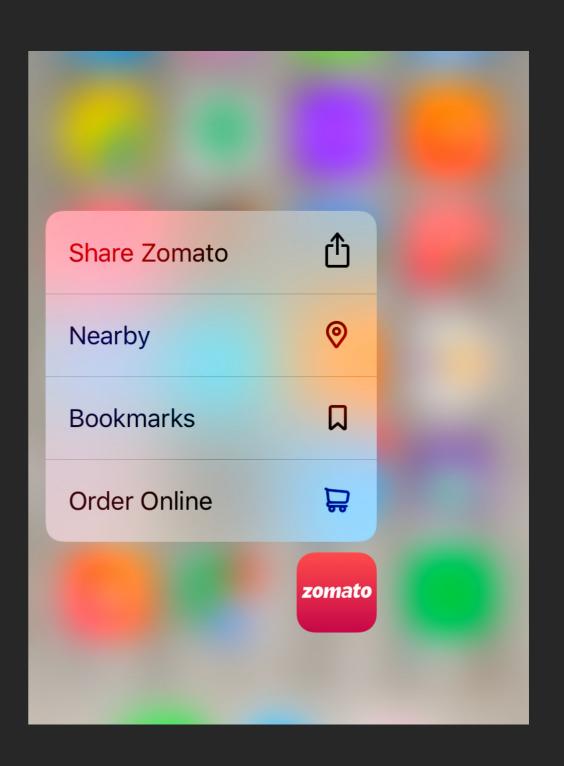
- Home Screen Quick Actions
- Peek and Pop
- Notification Content Extensions

### Where can you use 3D Touch? 😐 🤑

- Home Screen Quick Actions
- Peek and Pop
- Notification Content Extensions

#### Home Screen Quick Actions

- Introduced in iOS 9
- Can have a total of 4
   Actions
- Are of 2 types : Static and Dynamic



#### Static Home Screen Actions

- Declared in Info.plist
- Set once, Populated @ Compile Time
- Available as soon as the app is installed

▼ UIApplicationShortcutItems	<b>^</b>	Array	(1 item)
▼ Item 0		Dictionary	(4 items)
UIApplicationShortcutItemTitle		String	Search
UIApplicationShortcutItemType		String	\$(PRODUCT_BUNDLE_IDENTIFIER).search
UIApplicationShortcutItemIconFile		String	search
UIApplicationShortcutItemSubtitle		String	Search Recipes

#### Static Home Screen Actions

#### required

UIApplicationShortcutItemType
UIApplicationShortcutItemTitle

#### optional

UIApplicationShortcutItemSubtitle
UIApplicationShortcutItemIconType
UIApplicationShortcutItemIconFile

#### Dynamic Home Screen Actions

- Populated @ Runtime
- Will not appear until the user has used that feature
- Add to UIApplication shortcutItems, when relevant.

## Dynamic Home Screen Actions

UIApplication.shared.shortcutItems = [recentRecipe]

#### How do Quick Actions work?

 AppDelegate receives a callback when an action is selected **S** 

• Check UIApplicationShortcutItemType <a>V</a>



Perform Action

```
func application(_ application: UIApplication, preformActionFor shortcutItem:
  UIApplicationShortcutItem, completionHandler: @escaping(Bool) -> Void) {
       switch shortcutItem.type {
           case "search":
                     //deeplink to search page
           case "favourite":
                   //deeplink to favourite page
```

## Peek and Pop

- Useful for previewing content before navigation
- Should be implemented wherever content can be tapped to navigate -Recommended by Apple





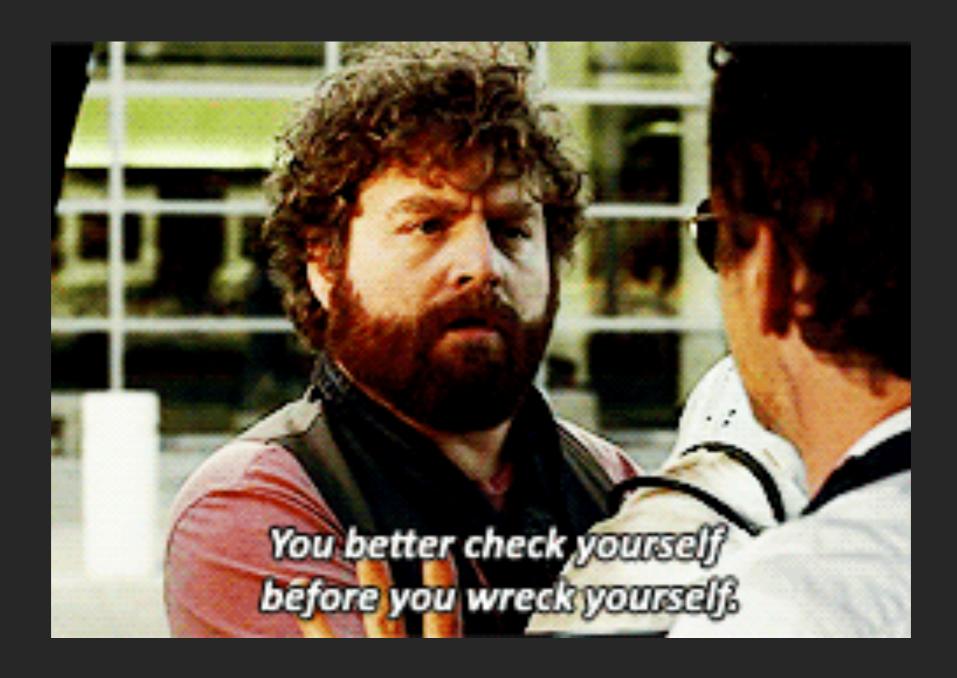
Item Item

## Peek and Pop

#### **Protocol Overview**

# Check for 3D Touch





• Check @ runtime for 3D Touch

```
override func viewDidLoad()
    super.viewDidLoad()
    if traitCollection.forceTouchCapability == .available {
        registerForPreviewing(with: self, sourceView: collectionView)
        }
    }
}
```

• Check @ runtime for 3D Touch

```
override func viewDidLoad() {
    super.viewDidLoad()

if traitCollection.forceTouchCapability == .available {
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}
```

## Back to Peek and Pop 🙀 🧖

## Peek and Pop 🖄

```
func previewingContext(_ previewingContext: UIViewControllerForPreviewing,
   viewControllerForLocation location: CGPoint) -> UIViewController? {
    //return viewcontroller for peek
func previewingContext( previewingContext: UIViewControllerForPreviewing,
             commit viewControllerToCommit: UIViewController) {
     show(viewControllerToCommit, sender: self)
```



#### Alternatives?

- All devices do not support 3D Touch
- Reasons iOS Version, iPhone Model, Settings
- Always provide an alternative if you can
- UILongPressGestureRecognizer (press and hold)

## Quick Wins \*\*

- Save time for User
- Easy af
- Seems fancy and intuitive
- Grabs App Store Attention

#### Thank You!

- @soulful\_swift
- @xorforce