Accessibility Custom Actions

Dan Golden, Accessibility Engineer
Reducing Clutter

Convenience and Speed
Reducing Clutter

Convenience and Speed
Creamy • no-stir

Patty’s

Chunky • sugar-free

Anna’s
Nutter Buddy

- **Creamy • no-stir**
  - **Patty’s**
  - **Anna’s**
  - **GIFF**
  - **Better Butter**
  - **Nutty Nathan’s**
  - **Chunky Monkey**

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Reducing Clutter

Removed repetitive controls

Reduced cognitive load

Simplified the experience
Reducing Clutter

Convenience and Speed
18 taps
6 taps

67% fewer taps
Convenience and Speed

Removed cumbersome gestures

Sped up interaction

Improved prominence of interaction options
override var accessibilityCustomActions: [UIAccessibilityCustomAction]? {
  get {
    let myAction = UIAccessibilityCustomAction(name: "Custom Action", target: self,
                                              selector: #selector(handleAction(_:)))
    return [myAction]
  }
  set {} 
}

@objc func handleAction(_ action: UIAccessibilityCustomAction) -> Bool {
  var success = false
  // action logic
  return success
}
override var accessibilityCustomActions: [UIAccessibilityCustomAction]? {
    get {
        let myAction = UIAccessibilityCustomAction(name: "Custom Action", target: self, selector: #selector(handleAction(_:)))
        return [myAction]
    }
    set {}
}

@objc func handleAction(_ action: UIAccessibilityCustomAction) -> Bool {
    var success = false
    // action logic
    return success
}
override var accessibilityCustomActions: [UIAccessibilityCustomAction]? {
    get {
        let actions = [UIAccessibilityCustomAction]()

        let myAction = UIAccessibilityCustomAction(name: "Custom Action") {
            (customAction: UIAccessibilityCustomAction) -> Bool in
            var success = false
            // action logic
            return success
        }

        actions.append(myAction)
        return actions
    }
    set {}
}
cellButton1.isAccessibilityElement = false
cellButton2.isAccessibilityElement = false
cellButton3.isAccessibilityElement = false
Assistive Technology Support

- VoiceOver
- Switch Control
- Full Keyboard Access
- Voice Control
More Information

developer.apple.com/wwdc19/250

<table>
<thead>
<tr>
<th>Course</th>
<th>Time</th>
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<tbody>
<tr>
<td>Accessibility Engineering Lab</td>
<td>Tuesday, 10:00</td>
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<tr>
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<td>Friday, 11:00</td>
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<tr>
<td>Accessibility Design Lab</td>
<td>Daily, 9:00</td>
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<tr>
<td>Accessibility in SwiftUI</td>
<td>Friday, 10:00</td>
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