iOS 11新特性

nate

- CocoaTouch
- Xcode9
- Core ML
- ARKit

Drag and Drop

```
//EFinderTodayCell.h
@interface EFinderTodayCell : UIView
@end

//EFinderTodayCell.m
- (void)enableDrag
{
    if (IOS11) {
        UIDragInteraction* drag = [[UIDragInteraction alloc] initWithDelegate:self];
        [self addInteraction:drag];
        self.userInteractionEnabled = true;
    }
}
```

```
- (NSArray<UIDragItem *> *)dragInteraction:(UIDragInteraction *)interaction itemsForBeginningSess
{
    NSArray* items = [self itemsForSession:session];
    return items;
}
```

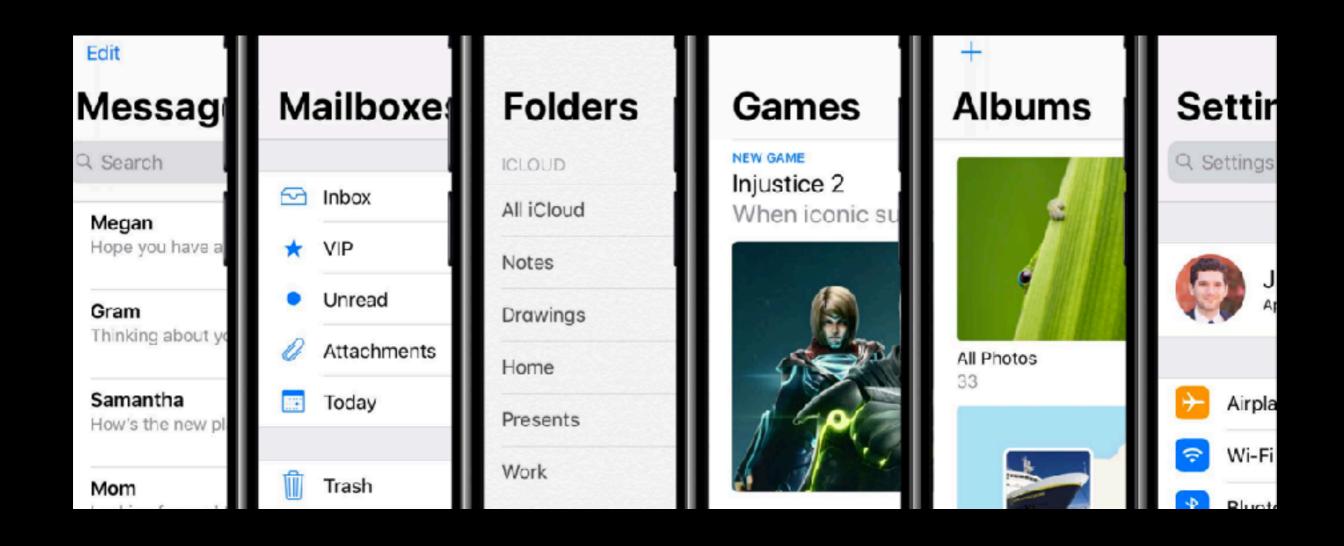
FileProviderUI

File Management

UIDocumentBrowserViewController

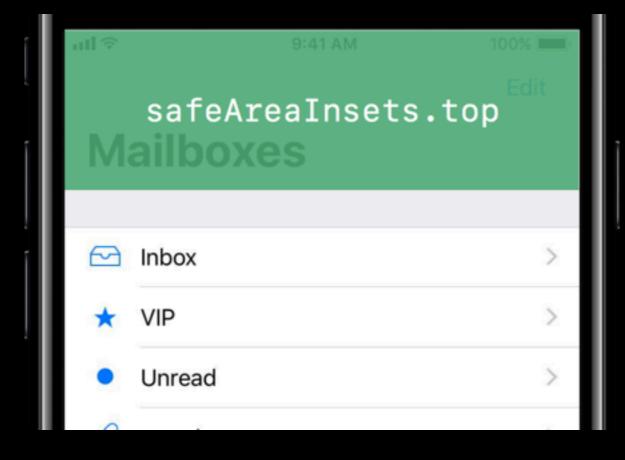
```
class UIDocumentBrowserViewController {
  init(forOpeningFilesWithContentTypes: [String]?)
  var delegate: UIDocumentBrowserViewControllerDelegate?
}
```

Navigation title



Enabling Large Titles

```
class UINavigationBar {
    var prefersLargeTitle: Bool
}
```



Swipe Actions

New look-and-feel automatically for all table views

Supports full swipe-to-delete for iOS 11-linked apps

New features with API adoption

- Images
- Leading and trailing actions
- Completion handler and cancellation



KVO block

Swift 4 and Foundation

New block-based KVO!

```
var token: NSKeyValueObservation? = nil

func startObserving() {
  let eliza = ...
  token = eliza.observe(\.copresenter) { (object, change) in
    print("Eliza's co-presenter is now \(object.copresenter.name)")
  }
}
```

scrollview 下的autolayout

```
UIScrollView依靠与其subviews之间的约束来确定ContentSize的大小

换成代码 是这个样子

[scrollView mas_makeConstraints:^(MASConstraintMaker *make) {
    make.left.equalTo(v1.mas_left);
    make.right.equalTo(v1.mas_right);
    make.top.equalTo(v1.mas_top);
    make.bottom.equalTo(v1.mas_bottom);
}
```

```
[v1 mas_makeConstraints:^(MASConstraintMaker *make) {
    make.edges.equalTo(scrollView);
    make.width.equalTo(scrollView);
    make.height.equalTo(scrollView).multipliedBy(1.5);
}];
```

Auto Layout and Scroll View

Frame vs. content

```
class UIScrollView {
   var contentLayoutGuide: UILayoutGuide { get }
   var frameLayoutGuide: UILayoutGuide { get }
}
```

imageView.centerXAnchor.constraint(equalTo: scrollView.contentLayoutGuide.centerXAnchor)
imageView.centerYAnchor.constraint(equalTo: scrollView.contentLayoutGuide.centerYAnchor)

iCloud 密码自动填充app



PDFKit

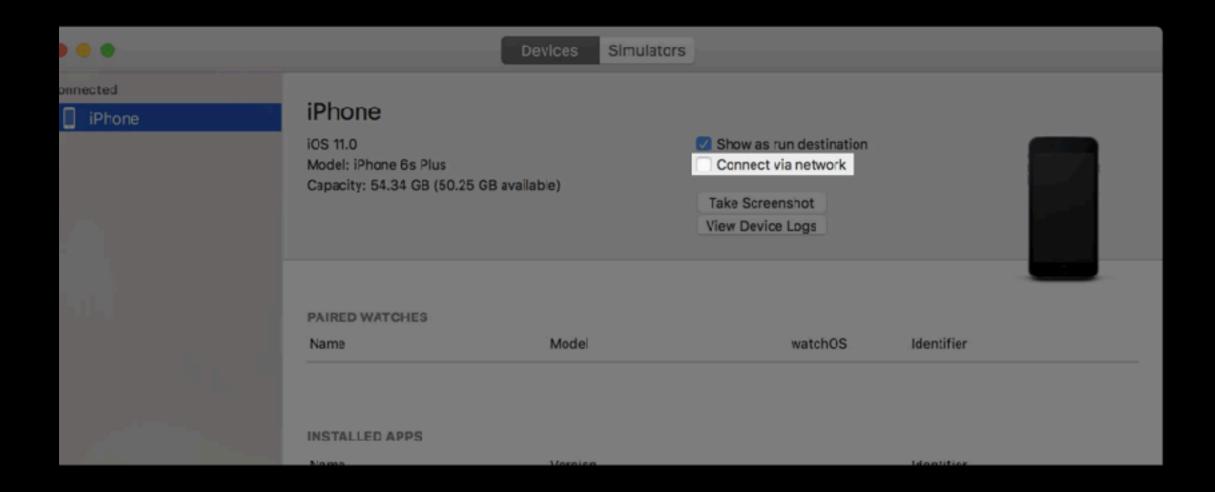
- PDFView: 用来展示pdf
- PDFThumbnailView: 用来展示一排缩略图
- PDFDocument: 代表一个pdf文件
- PDFPage: pdf中的页
- PDFOutline: pdf的大纲目录
- PDFSelection: pdf中的一段选择的文字, 比如搜索的文字
- PDFAnnotation: pdf注解
- PDFAction: pdf跳转, 比如说目录到页的跳转
- PDFDestination: pdf 跳转目标, 跳转页中使用
- PDFBorder: 可选的注释边界

Core ML

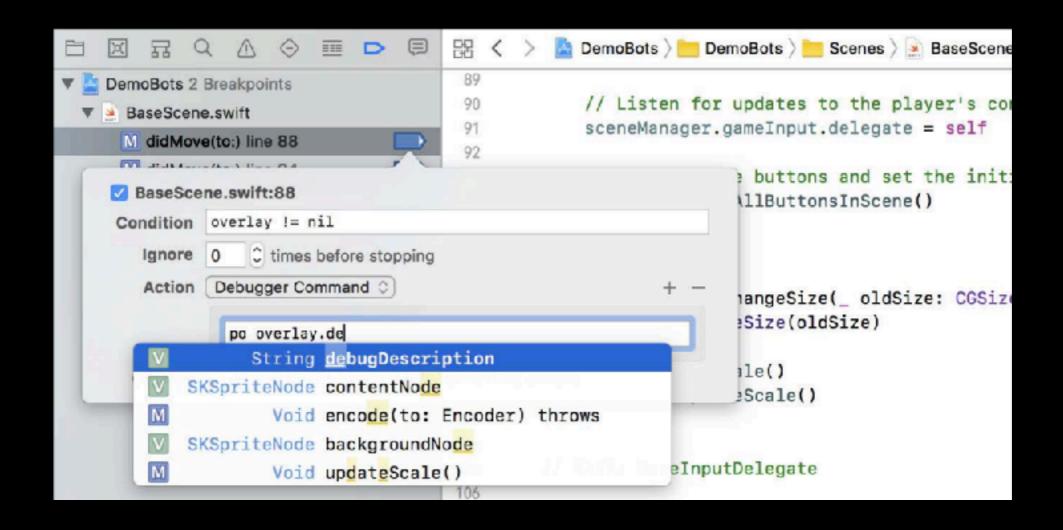
训练好的模型(trained model)是将一个机器学习算法应用到一个训练数据集之后所得到的结果。然后该模型可以基于新的输入数据而进行预测。比如,如果一个模型在一个地区的历史房价数据上进行了训练,那么它就可能能够根据房子的卧室和浴室数量来预测房价。



无线debug

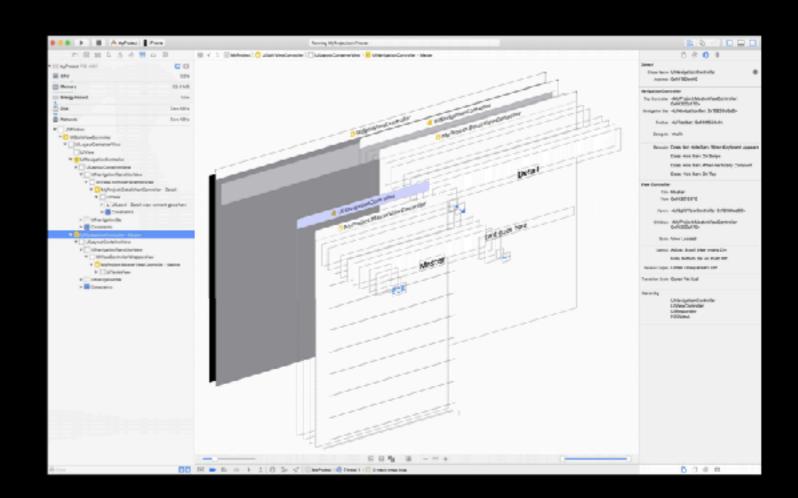


断点条件代码补全

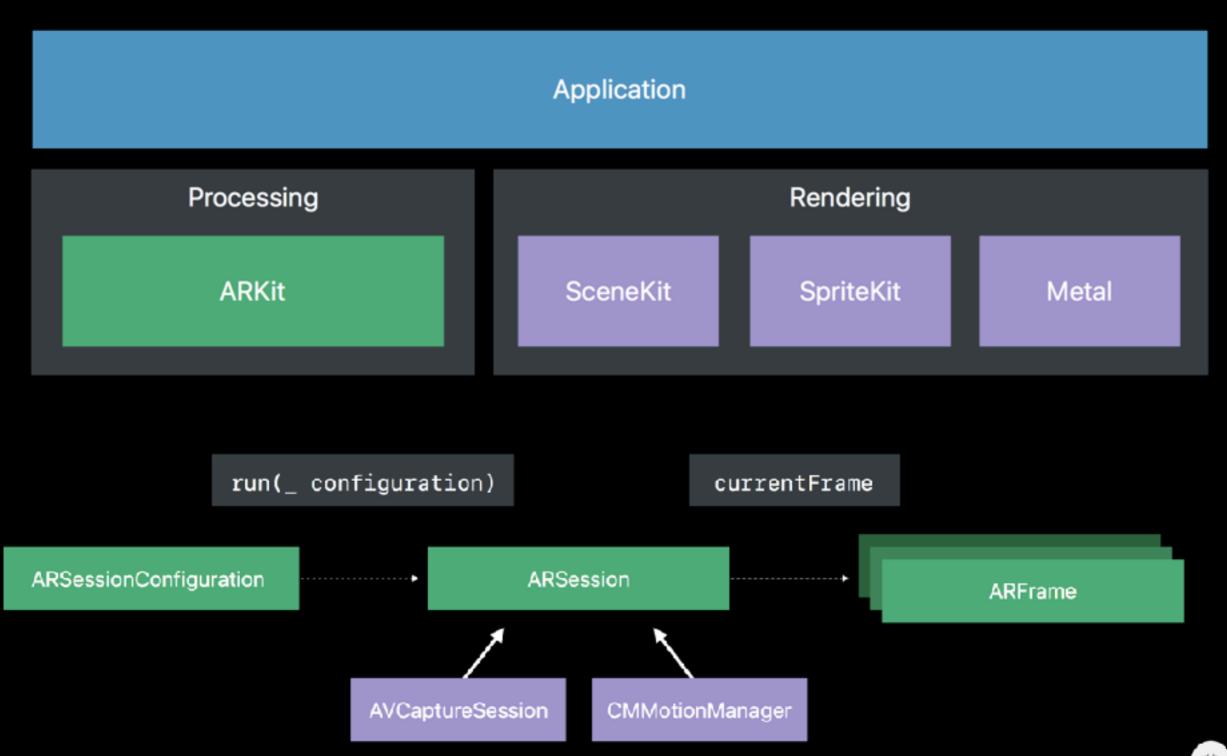


VC debug

View Controller Debugging



ARKit





```
// plane node didAdd when detected
func renderer(_ renderer: SCNSceneRenderer, didAdd node: SCNNode, for ar
    ARAnchor) {
    guard let planeAnchor = anchor as? ARPlaneAnchor else { return }
    let planeNode = createARPlaneNode(anchor: planeAnchor)
   node.addChildNode(planeNode)
// when detected new plane, update
func renderer(_ renderer: SCNSceneRenderer, didUpdate node: SCNNode, for
    anchor: ARAnchor) {
   guard let planeAnchor = anchor as? ARPlaneAnchor else { return }
    // remove existing plane nodes
   node.enumerateChildNodes { (childNode, _) in
        childNode.removeFromParentNode()
   let planeNode = createARPlaneNode(anchor: planeAnchor)
   node.addChildNode(planeNode)
// when detected plane removed, didRemove the plane
func renderer(_ renderer: SCNSceneRenderer, didRemove node: SCNNode, for
    anchor: ARAnchor) {
   guard anchor is ARPlaneAnchor else { return }
    // remove existing plane nodes
   node.enumerateChildNodes { (childNode, _) in
        childNode.removeFromParentNode()
}
```

```
/** create and return ARPlaneNode */
   func createARPlaneNode(anchor: ARPlaneAnchor) -> SCNNode {
       let pos = SCNVector3Make(anchor.transform.columns.3.x, anchor.transform.
           columns.3.y, anchor.transform.columns.3.z)
//
         print("New surface detected at \(pos)")
       // Create the geometry and its materials
       let plane = SCNPlane(width: CGFloat(anchor.extent.x), height: CGFloat
            (anchor.extent.z))
       let grassImage = UIImage(named: "grass")
       let grassMaterial = SCNMaterial()
       grassMaterial.diffuse.contents = grassImage
       grassMaterial.isDoubleSided = true
       plane.materials = [grassMaterial]
       // Create a plane node with the plane geometry
       let planeNode = SCNNode(geometry: plane)
       planeNode.position = pos
       planeNode.transform = SCNMatrix4MakeRotation(-Float.pi / 2, 1, 0, 0)
       // add the wolf to pos of the plane node
       if wolfNode == nil {
           if let wolfScene = SCNScene(named: "art.scnassets/wolf.dae") {
               wolfNode = wolfScene.rootNode.childNode(withName: "wolf",
                    recursively: true)
               wolfNode.position = pos
               sceneView.scene.rootNode.addChildNode(wolfNode!)
       return planeNode
```

"技术本来就应该是尖端的。正如伊拉恩·加内特所说,编程语言的所谓"业界最佳实践",实际上不会让你变成最佳,只会让你变得很平常。"

-Paul Graham

谢谢