

`session = ARKitSession()`



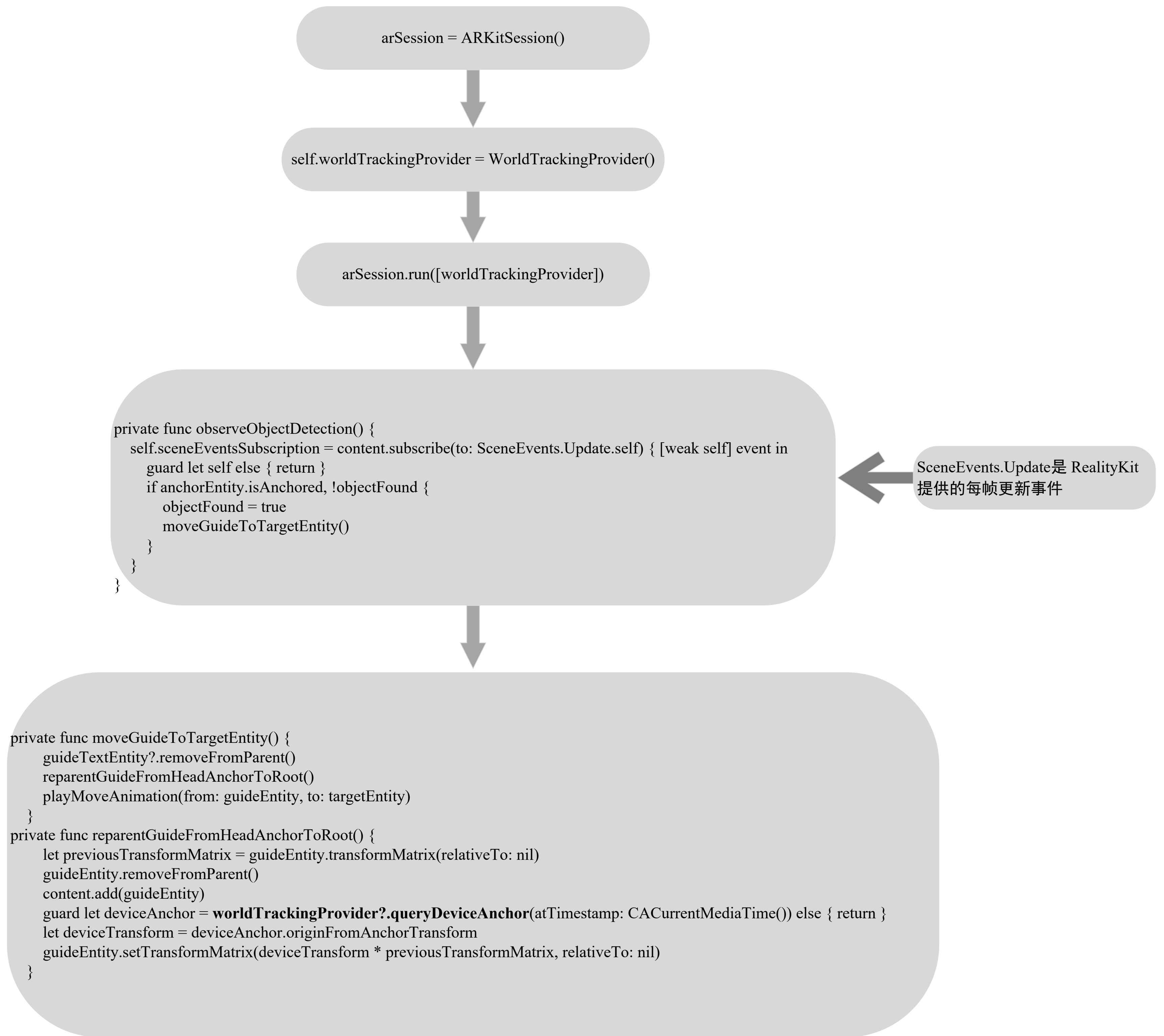
`handTracking = HandTrackingProvider()`



`session.run([handTracking])`



```
for await update in handTracking.anchorUpdates {  
  switch update.event {  
  case .updated:  
    let anchor = update.anchor  
  
    // Publish updates only if the hand and the relevant joints are tracked.  
    guard anchor.isTracked else { continue }  
  
    // Update left hand info.  
    if anchor.chirality == .left {  
      latestHandTracking.left = anchor  
    } else if anchor.chirality == .right { // Update right hand info.  
      latestHandTracking.right = anchor  
    }  
  default:  
    break  
  }  
}
```



let session = ARKitSession()



let handTracking = HandTrackingProvider()
let sceneReconstruction = SceneReconstructionProvider()



try await model.session.run([model.sceneReconstruction, model.handTracking])



```
func processHandUpdates() async {  
  for await update in handTracking.anchorUpdates {  
    let handAnchor = update.anchor  
    guard  
      handAnchor.isTracked,  
      let indexFingerTipJoint = handAnchor.handSkeleton?.joint(.indexFingerTip),  
      indexFingerTipJoint.isTracked else { continue }  
  
    let originFromIndexFingerTip = handAnchor.originFromAnchorTransform * indexFingerTipJoint.anchorFromJointTransform  
    fingerEntities[handAnchor.chirality]?.setTransformMatrix(originFromIndexFingerTip, relativeTo: nil)  
  }  
}
```



```
func processReconstructionUpdates() async {  
  for await update in sceneReconstruction.anchorUpdates {  
    let meshAnchor = update.anchor  
  
    guard let shape = try? await ShapeResource.generateStaticMesh(from: meshAnchor) else { continue }  
    switch update.event {  
      .....  
    }  
  }  
}
```

```
let session = ARKitSession()
```

```
private let worldTracking = WorldTrackingProvider()  
private let roomTracking = RoomTrackingProvider()
```

```
try await session.run([worldTracking, roomTracking])
```

```
func processRoomTrackingUpdates() async {  
    for await update in roomTracking.anchorUpdates {  
        let roomAnchor = update.anchor  
        .....  
    }  
}  
func processWorldTrackingUpdates() async {  
    for await update in worldTracking.anchorUpdates {  
        let worldAnchor = update.anchor  
        .....  
    }  
}
```

```
private let arkitSession = ARKitSession()
```

```
graph TD; A[private let arkitSession = ARKitSession()] --> B[let objectTracking = ObjectTrackingProvider(referenceObjects: referenceObjects)]; B --> C[try await arkitSession.run([objectTracking])]; C --> D[for await anchorUpdate in objectTracking.anchorUpdates {  
    let anchor = anchorUpdate.anchor  
    let id = anchor.id  
    switch anchorUpdate.event {  
        .....  
    }  
}]
```

```
let objectTracking = ObjectTrackingProvider(referenceObjects: referenceObjects)
```

```
try await arkitSession.run([objectTracking])
```

```
for await anchorUpdate in objectTracking.anchorUpdates {  
    let anchor = anchorUpdate.anchor  
    let id = anchor.id  
    switch anchorUpdate.event {  
        .....  
    }  
}
```