```
arkitSession = ARKitSession()
                    worldTracking = WorldTrackingProvider()
                    planeDetection = PlaneDetectionProvider()
                 arkitSession.run([worldTracking, planeDetection])
                                                                                       PlaneAnchorHandler是sample中定义的类, 用于处理得到
           planeAnchorHandler = PlaneAnchorHandler(rootEntity: root)
                                                                                       平面锚点, 渲染检测到的平面
           for await anchorUpdate in planeDetection.anchorUpdates {
                                                                                       var anchorUpdates : AsyncSequence<AnchorUpdate<PlaneAnchor>>
                  await planeAnchorHandler.process(anchorUpdate)
                                                                                       struct AnchorUpdate{
                                                                                            AnchorType
                                                                                                               anchor;
           for await anchorUpdate in worldTracking.anchorUpdates {
                                                                                            TimeInterval
                                                                                                               timestamp;
                  persistenceManager.process(anchorUpdate)
                                                                                            AnchorUpdate.Event event;
                                                                                       struct PlaneAnchor {
                                                                                            simd float4x4
                                                                                                                       originFromAnchorTransform;
                                                                                            PlaneAnchor.Alignment
                                                                                                                       alignment;
                                                                                             PlaneAnchor.Geometry
                                                                                                                       geometry;
Class PlaneAnchorHandler {
                                                                                            UUID
                                                                                                                       id;
                                                                                            TimeInterval
                                                                                                                       timestamp;
     func process(_ anchorUpdate: AnchorUpdate<PlaneAnchor>) async {
                                                                                            SurfaceClassification
                                                                                                                       surfaceClassification;
         let anchor = anchorUpdate.anchor
         if anchorUpdate.event == .removed {
        planeAnchorsByID.removeValue(forKey: anchor.id)
          if let entity = planeEntities.removeValue(forKey: anchor.id) {
            entity.removeFromParent()
                                                                                           根据event对entity 进行更新
           return
     let entity = Entity()
      entity.name = "Plane \((anchor.id)\)"
      entity.setTransformMatrix(anchor.originFromAnchorTransform, relativeTo: nil)
     .....
```

```
session = ARKitSession()

handTracking = HandTrackingProvider()

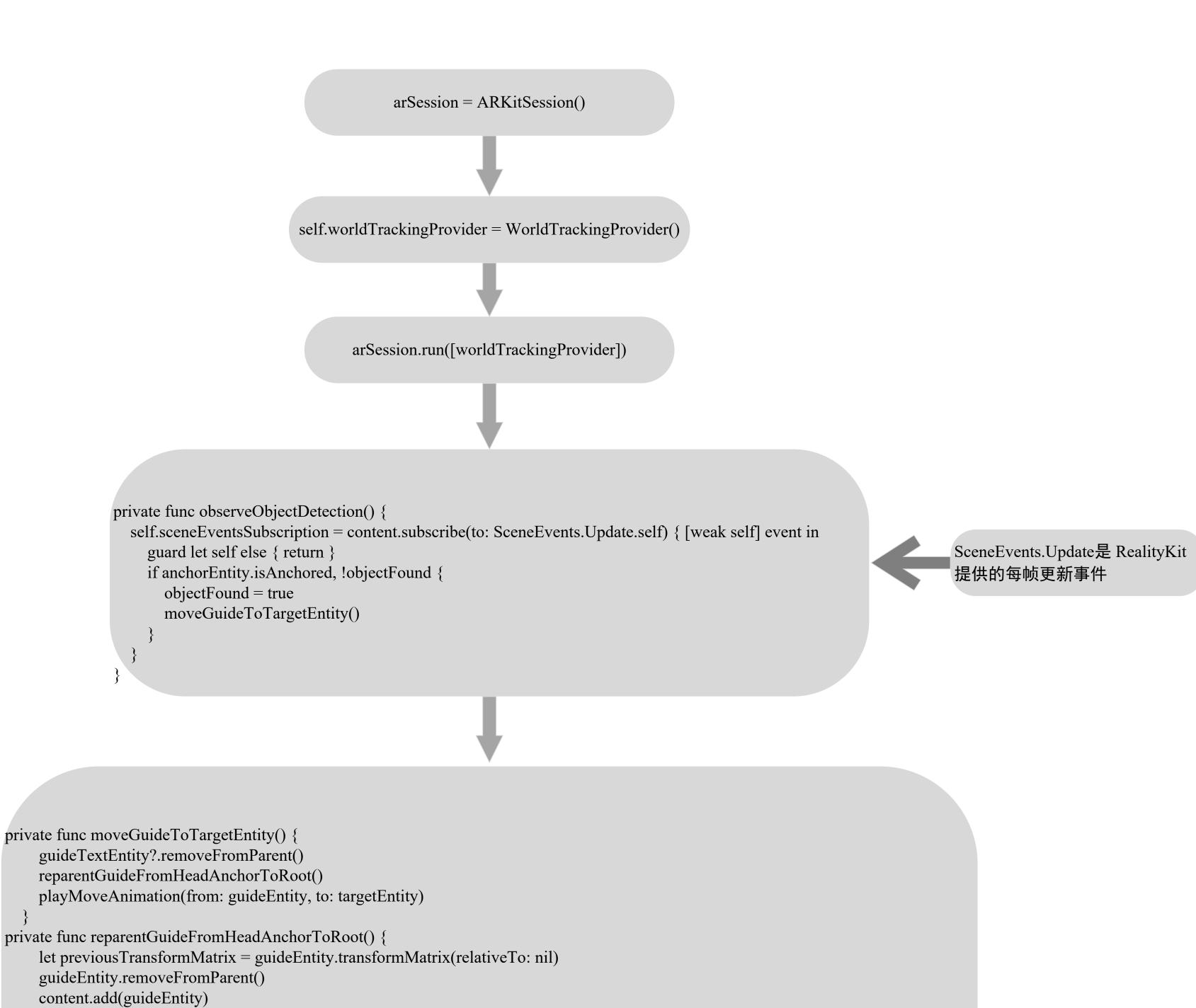
session.run([handTracking])
```

```
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
    }
}
```



guard let deviceAnchor = worldTrackingProvider?.queryDeviceAnchor(atTimestamp: CACurrentMediaTime()) else { return }

let deviceTransform = deviceAnchor.originFromAnchorTransform

guideEntity.setTransformMatrix(deviceTransform * previousTransformMatrix, relativeTo: nil)

```
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()
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 {
```