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Building a Widget using Jetpack Glance in Android

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Course Overview

- Getting started
- Creating and Styling Widget
- Managing Widget States
- Updating Widget State
- Handle Widget Click Actions
- Wrapping up

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Course prerequisites

- Jetpack Compose
- WorkManager
- Preferences/DataStore
- Coroutines

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A brief history of Android Widgets

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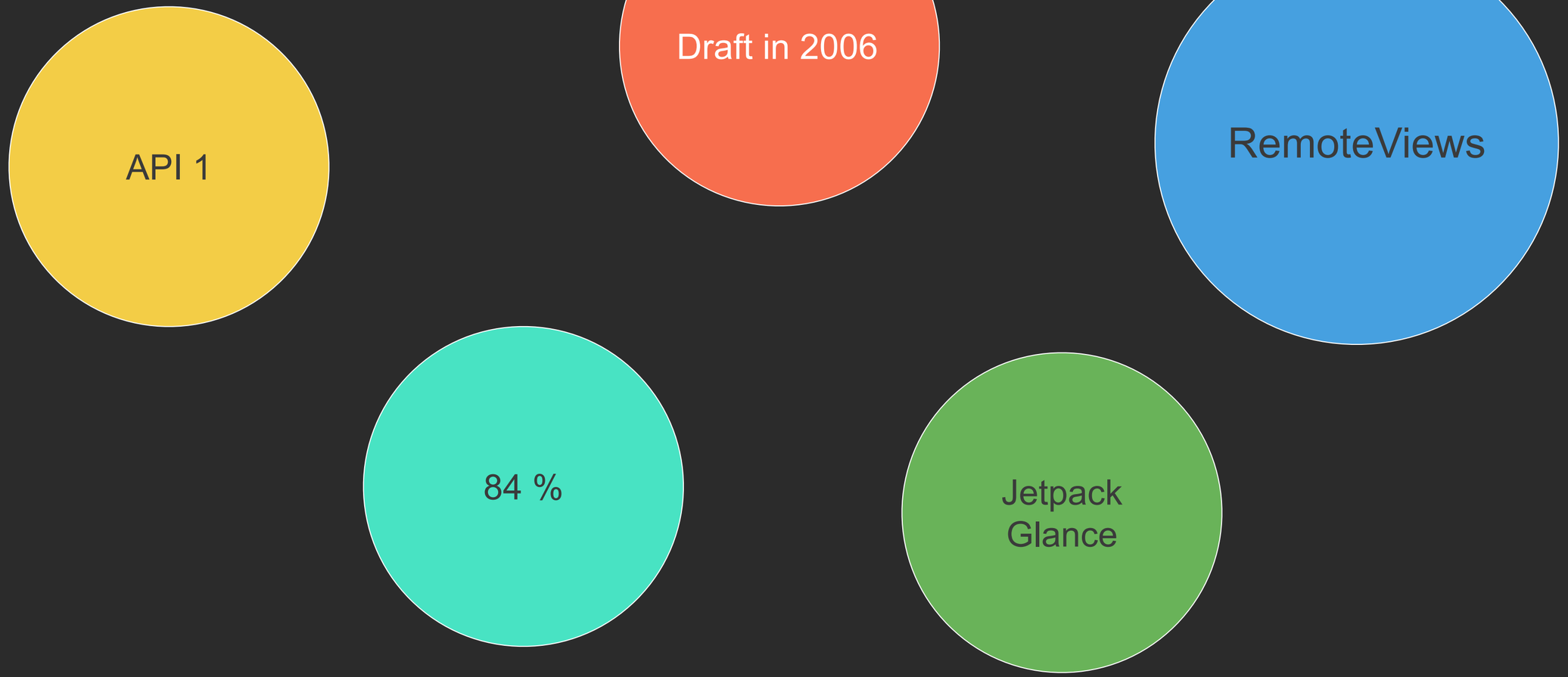
API 1
Draft in 2006
RemoteViews
84 %
Jetpack
Glance

December 2021 -> Alpha01

May 2023 -> Beta01

September 2023 -> 1.0.0

Demo

Final project

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What is Jetpack Glance?

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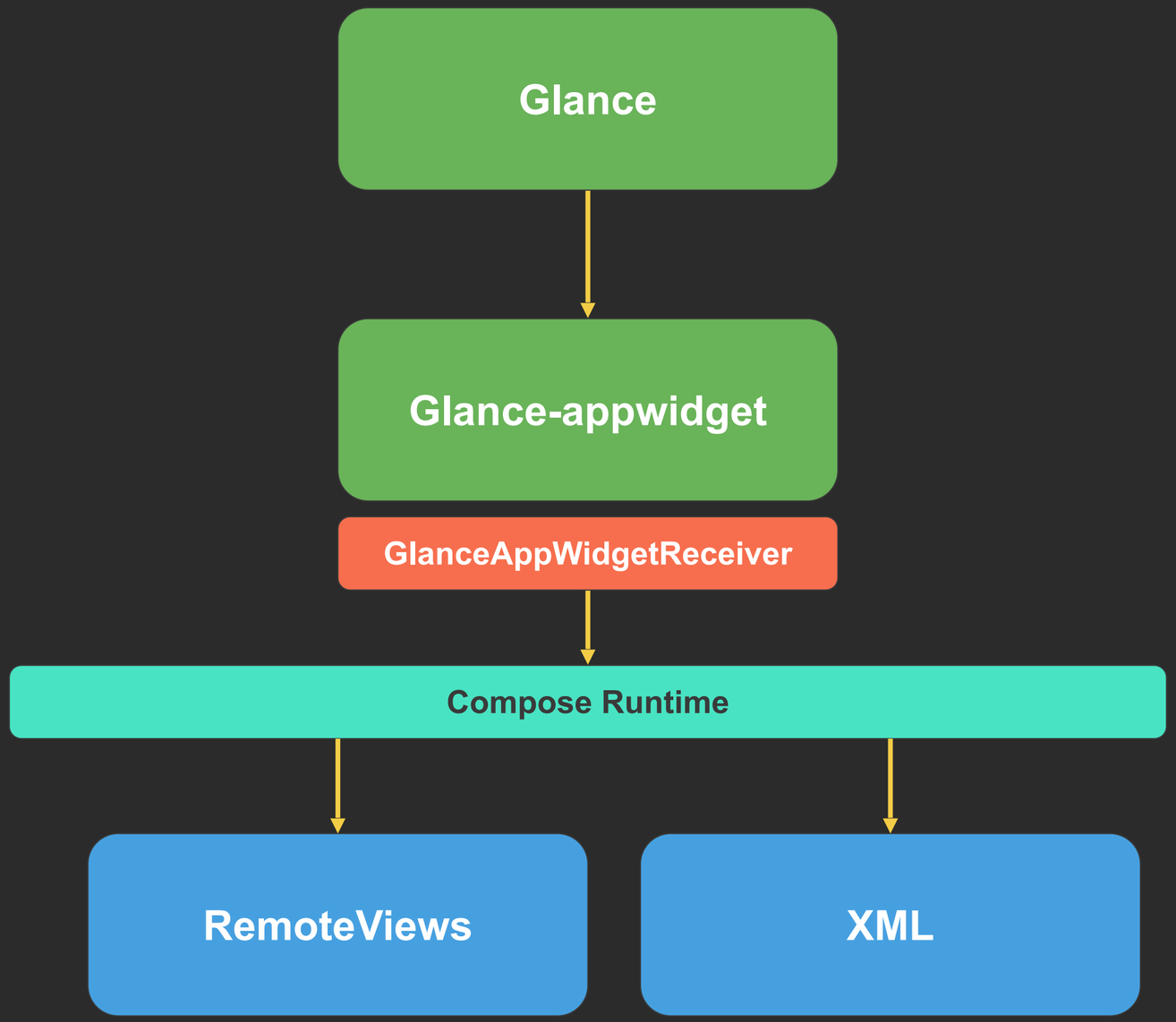
Glance
Glance-appwidget
GlanceAppWidgetReceiver
Compose Runtime
RemoteViews
XML

app/build.gradle.kts

```
android {
   buildFeatures {
      compose = true
   }
   composeOptions {
      kotlinCompilerExtensionVersion = "1.4.3"
   }

   ...
}

implementation("androidx.glance:glance:1.0.0")
implementation("androidx.glance:glance-appwidget:1.0.0")
implementation("androidx.glance:glance-material3:1.0.0")
```

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Open starter project in Android Studio

Startup project in Android Studio

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Creating and Styling Widget

Up Next

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