

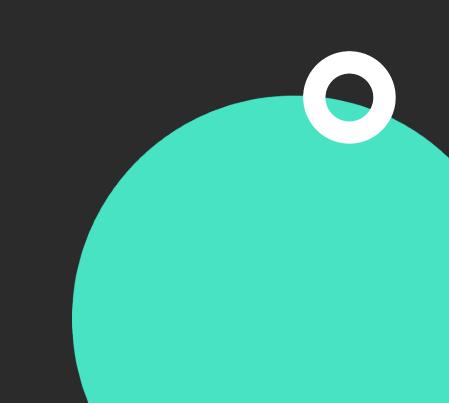
Course wrap-up



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Section Overview

- Recap on the most important concepts of Jetpack Glance
- Go through the code to recap what we have build
- Bonus





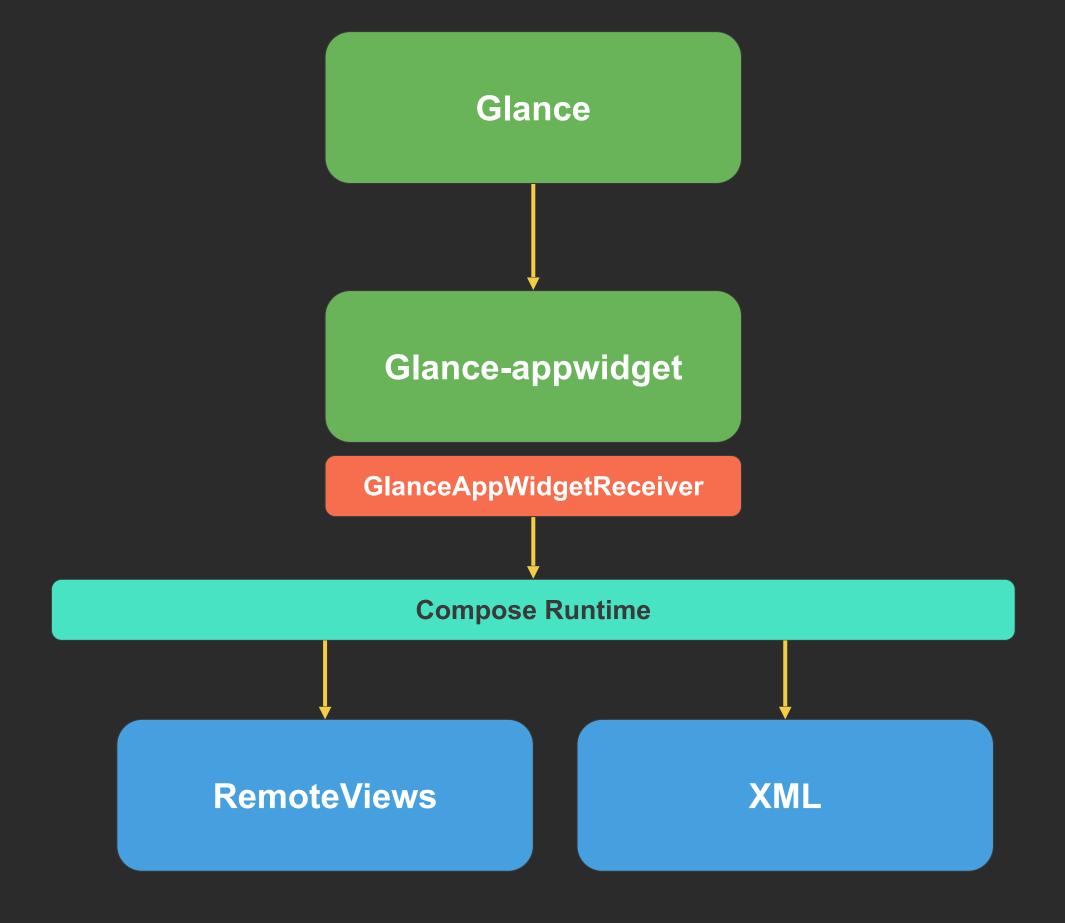


The most important concepts of Jetpack Glance













widget_provider.xml

initial_widget_layout.xml

ic_refresh.xml

ic_location.xml

ic_wind.xml





WeatherWidget.kt

```
Compose imports
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Spacer
// Glance imports
import androidx.glance.layout.Alignment
import androidx.glance.layout.Box
import androidx.glance.layout.Column
import androidx.glance.layout.Row
import androidx.glance.layout.Spacer
```





WeatherWidget.kt

```
override suspend fun provideGlance(context: Context, id: GlanceId) {
    provideContent {
        GlanceTheme(GlanceColorScheme.colors) {
            WidgetContent()
object GlanceColorScheme {
    val colors = ColorProviders(
        light = LightColorScheme,
        dark = DarkColorScheme
```







Glanceld





Glanceld

```
val glanceId = GlanceAppWidgetManager(context).getGlanceIds(
        WeatherWidget::class.java).last()
override suspend fun onAction(
    context: Context,
   glanceId: GlanceId,
    parameters: ActionParameters
```







GlanceStateDefinition





GlanceStateDefinition.kt

```
* Configuration definition for [GlanceState]. This defines where the data is stored and how the
* underlying data store is created. Use a unique [GlanceStateDefinition] to get a
[GlanceState], once
* defined, the data should be updated using the state directly, this definition should not
change.
 */
interface GlanceStateDefinition<T>
```







Worker Manager





WeatherWidgetWorker.kt

```
class WeatherWidgetWorker(
    private val repository: WeatherRepository,
    private val appContext: Context,
    private val workerParameters: WorkerParameters
) : CoroutineWorker(appContext, workerParameters) {
override suspend fun doWork(): Result {
  WidgetStateHelper.setLoading(true)
  repository.getData(latitude, longitude)
     .onSuccess { item →
        WidgetStateHelper.save(item)
          return Result.success()
     .onFailure { throwable →
         WidgetStateHelper.setLoading(false)
         return Result.retry()
```





ConfigurationActivity.kt

```
WeatherWidget().apply {
    updateAppWidgetState(context, glanceId) {
        WidgetStateHelper.saveLocation(
            it,
            latitude = item.latitude,
            longitude = item.longitude
        WidgetStateHelper.saveAddress(it, address = item.name)
    update(context, glanceId)
startWeatherWorker(latitude = item.latitude, longitude = item.longitude)
```







User Interactions





actionStartActivity

actionRunCallback

actionStartService

actionSendBroadcast







Open the Android Studio







Building a Widget using Jetpack Glance in Android

Thanks for joining



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