

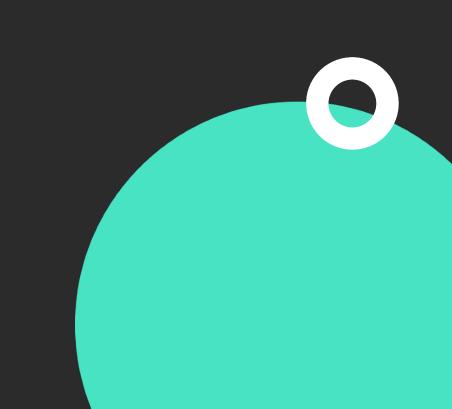
Managing Widget States



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Section Overview

- What is glanceID and how it corresponds with appWidgetId
- GlanceStateDefinition
- How to use preferences and datastore for widget state
- Summary







GlanceID vs appWidgetID





val appWidgetId: Int

Opaque object used to describe a glance view.
interface GlanceId

internal data class AppWidgetId(val appWidgetId: Int) : GlanceId





WeatherWidget.kt

```
class WeatherWidget : GlanceAppWidget() {
    override suspend fun provideGlance(context: Context, id: GlanceId) {
        provideContent {
            GlanceTheme(GlanceColorScheme.colors) {
                WidgetContent()
```







GlanceStateDefinition







GlanceStateDefinition

Preferences

DataStore







Preferences for Widget State





WeatherWidget.kt

```
aComposable
fun WidgetContent() {
    val prefs: MutablePreferences = currentState()
    //SET
    prefs[doublePreferencesKey("latitude")] = 50.09
    //GET
    val latitude = prefs[doublePreferencesKey("latitude")]
    // UI code. . .
```





WidgetStateHelper.kt

```
fun saveAddress(prefs: MutablePreferences, address: String) {
    prefs[stringPreferencesKey(widgetAddressKey)] = address
fun saveLocation(prefs: MutablePreferences, latitude: Double, longitude: Double) {
    prefs[doublePreferencesKey(widgetLatitudeKey)] = latitude
    prefs[doublePreferencesKey(widgetLongitudeKey)] = longitude
fun isStored(prefs: Preferences, latitude: Double, longitude: Double): Boolean =
    prefs[doublePreferencesKey(widgetLatitudeKey)] = latitude \delta \delta
prefs[doublePreferencesKey(
       widgetLongitudeKey
    )] = longitude
```







Code in Android Studio







Updating Widget State

Up Next



