MapLibre Configuration

This guide will explain various ways to create a map.

When working with maps, you likely want to configure the MapView.

There are several ways to build a MapView:

- 1. Using existing XML namespace tags for MapView in the layout.
- 2. Creating MapLibreMapOptions and passing builder function values into the MapView.
- 3. Creating a SupportMapFragment with the help of MapLibreMapOptions.

Before diving into MapView configurations, let's understand the capabilities of both XML namespaces and MapLibreMapOptions.

Here are some common configurations you can set:

- Map base URI
- · Camera settings
- Zoom level
- Pitch
- Gestures
- Compass
- Logo
- Attribution
- Placement of the above elements on the map and more

We will explore how to achieve these configurations in XML layout and programmatically in Activity code, step by step.

MapView Configuration with an XML layout

To configure MapView within an XML layout, you need to use the right namespace and provide the necessary data in the layout file.

```
{{#include
../../../platform/android/MapLibreAndroidTestApp/src/main/res/layout/
activity_map_options_xml.xml}}
```

This can be found in activity_map_options_xml.xml.

You can assign any other existing values to the maplibre... tags. Then, you only need to create MapView and MapLibreMap objects with a simple setup in the Activity.

```
{{#include
../../../platform/android/MapLibreAndroidTestApp/src/main/java/org/ma
```

plibre/android/testapp/activity/options/MapOptionsXmlActivity.kt}}

This can be found in MapOptionsXmlActivity.kt.

MapView configuration with MapLibreMapOptions

Here we don't have to create MapView from XML since we want to create it programmatically.

```
{{#include
../../../platform/android/MapLibreAndroidTestApp/src/main/res/layout/
activity_map_options_xml.xml}}
```

This can be found in activity_map_options_runtime.xml.

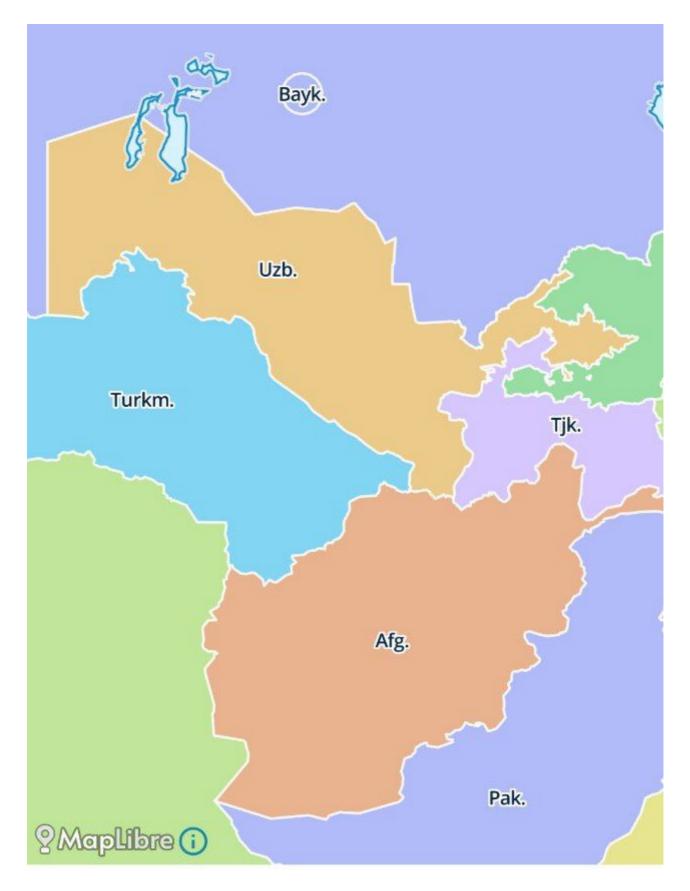
A MapLibreMapOptions object must be created and passed to the MapView constructor. All setup is done in the Activity code:

```
{{#include
../../../platform/android/MapLibreAndroidTestApp/src/main/java/org/ma
plibre/android/testapp/activity/options/MapOptionsRuntimeActivity.kt}}
```

This can be found in MapOptionsRuntimeActivity.kt.

Finally you will see a result similar to this:





For the full contents of MapOptionsRuntimeActivity and MapOptionsXmlActivity, please take a look at the source code of MapLibreAndroidTestApp.

You can read more about MapLibreMapOptions in the Android API documentation.

SupportMapFragment with the help of MapLibreMapOptions.

If you are using MapFragment in your project, it is also easy to provide initial values to the newInstance() static method of SupportMapFragment, which requires a MapLibreMapOptions parameter.

Let's see how this can be done in a sample activity:

```
{{#include
../../../platform/android/MapLibreAndroidTestApp/src/main/java/org/ma
plibre/android/testapp/activity/fragment/SupportMapFragmentActivity.kt}}
```

You can also find the full contents of SupportMapFragmentActivity in the MapLibreAndroidTestApp.

To learn more about SupportMapFragment, please visit the Android API documentation.

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