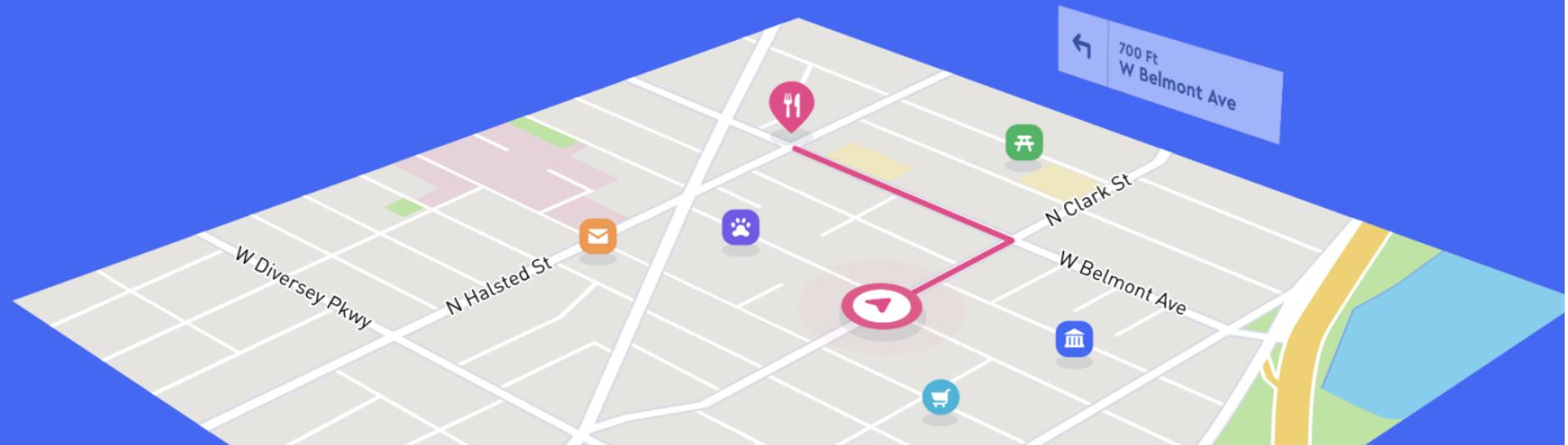


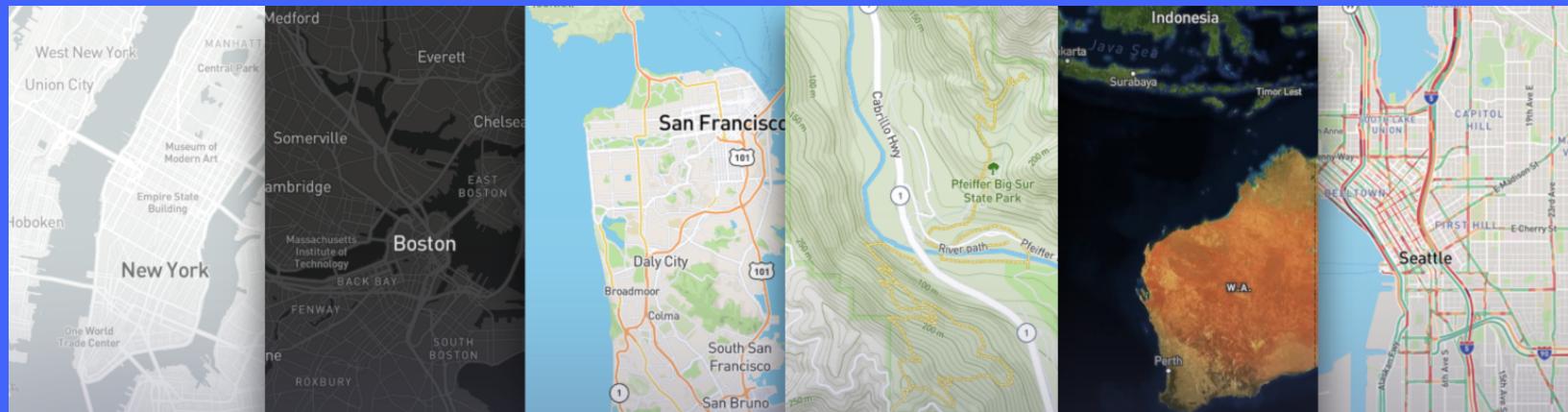
Mapbox for Android

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What is mapbox?

- Map, Search & Navigation SDKs for Android, iOS, Web
- Display Maps
- Navigation Directions (turn by turn, text to speech)



<https://www.mapbox.com/>

Demo :)

basic map with markers & navigation

Step 1 : Add permissions

AndroidManifest.xml

```
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />
```

Step 2 : Add the mapbox sdk to build.gradle

build.gradle (Module: app)

```
compile ('com.mapbox.mapboxsdk:mapbox-android-navigation-ui:0.6.1') {
    transitive = true
}
compile ('com.mapbox.mapboxsdk:mapbox-android-sdk:5.1.4@aar') {
    transitive = true
}
compile 'com.mapbox.mapboxsdk:mapbox-android-services:2.2.6'
```

Step 3: Add map component to XML

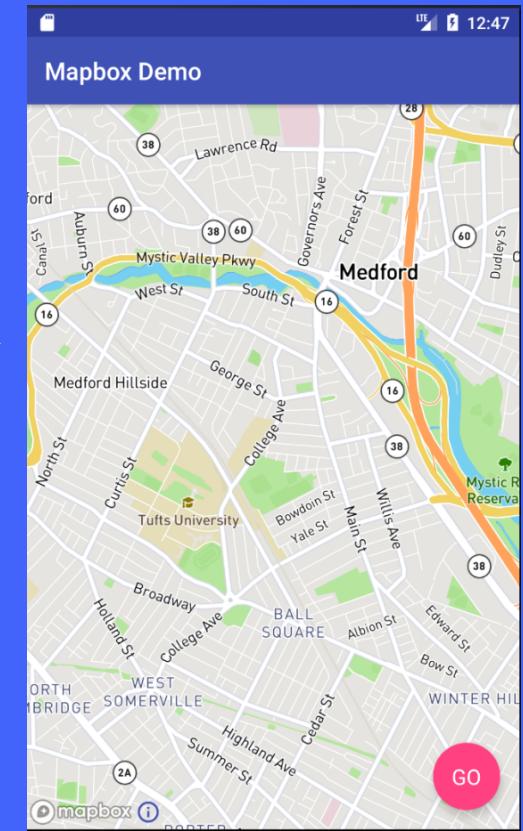
content_main.xml

```
<Layout....>
    <com.mapbox.mapboxsdk.maps.MapView
        android:id="@+id/mapView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        mapbox:mapbox_cameraTargetLat="42.40817"
        mapbox:mapbox_cameraTargetLng="-71.11375"
        mapbox:mapbox_styleUrl="mapbox://styles/mapbox/streets-v10"
        mapbox:mapbox_cameraZoom="14" />
</Layout...>
```

Step 4 : Initialize map in onCreate

MainActivity.java (onCreate)

```
Mapbox.getInstance(this, ACCESS_TOKEN);  
mapView = (MapView) findViewById(R.id.mapView);  
mapView.onCreate(savedInstanceState);
```



Step 5: Add markers

MainActivity.java (onCreate)

```
mapView.getMapAsync(new OnMapReadyCallback() {
    @Override
    public void onMapReady(MapboxMap mapboxMap) {
        mapboxMap.addMarker(new MarkerOptions()
            .position(new LatLng(42.4075, -71.1190))
            .title("Tufts University")
            .snippet("Welcome jumbos!"));
    }
});
```

Step 6 : Navigate!

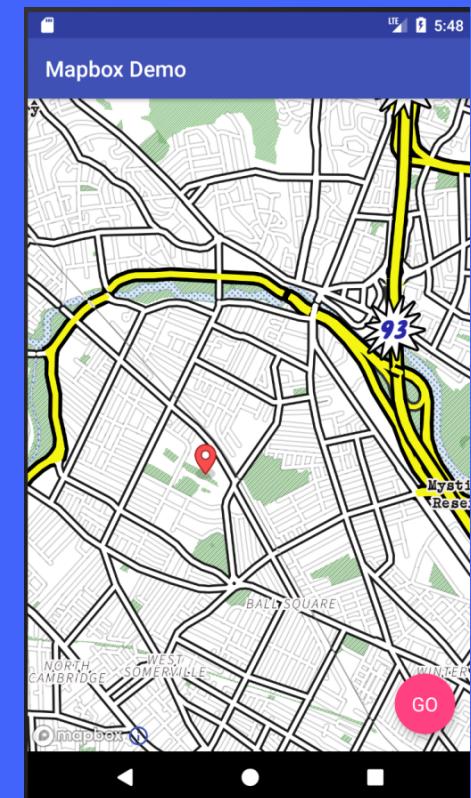
AndroidManifest.xml

```
Position origin = Position.fromCoordinates(-77.03613, 38.90992);
Position destination = Position.fromCoordinates(-77.0365, 38.8977);

NavigationLauncher.startNavigation(MainActivity.this, origin, destination, null, true);
```

Step 7 : Customize

<https://www.mapbox.com/designer-maps/>



Step 8: Profit!

