

Eintragungen Manifest

```
<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
<uses-permission android:name="android.permission.INTERNET"/>
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
```

View

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <org.osmdroid.views.MapView
            android:id="@+id/mapView"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_gravity="center_horizontal" />
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Dependencies in build-gradle

```
dependencies {
    implementation fileTree(dir: 'libs', include: ['*.jar'])
    implementation 'androidx.appcompat:appcompat:1.0.2'
    implementation 'androidx.constraintlayout:constraintlayout:1.1.3'
    testImplementation 'junit:junit:4.12'
    androidTestImplementation 'androidx.test.ext:junit:1.1.1'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.2.0'
    implementation 'org.slf4j:slf4j-android:1.7.30'
    implementation files('libs\\osmdroid-android-4.2.jar')
    //implementation 'org.osmdroid:osmdroid-android:6.1.6'
}
```

Code

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    mapView = findViewById(R.id.mapView);
    mapView.setTileSource(TileSourceFactory.MAPNIK);
    mapView.setBuiltInZoomControls(true);
    mapView.setMultiTouchControls(true);
    mapView.setClickable(true);
    mapController = (MapController) mapView.getController();
    mapController.setZoom(16);

    GeoPoint startPoint = new GeoPoint(48.8583, 2.2944);
    mapController.setCenter(startPoint);
}
```