

Mobile Development



**#9** Live Location Platform



# Mapbox

- **Mapbox** is a live location platform, that let developers build their application, powered by location data with real-time updates. Total customization.

- More informations:

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



# #1 Install Mapbox on React Native

- First, create a React Native application:

```
$ react-native init namaProjek
```

- Install Mapbox package on your project:

```
$ cd namaProjek
```

```
$ npm i @mapbox/react-native-mapbox-gl
```



## #2 Jitpack Repo

- Go to [android/build.gradle](#) then insert jitpack repo on allprojects repo:

```
allprojects {  
    repositories {  
        .....  
        maven { url "https://jitpack.io" }  
    }  
}
```



## #3 Mapbox Dependency

- Go to **android/app/build.gradle** then insert mapbox react native dependencies:

```
dependencies {  
    compile project(':mapbox-react-native-mapbox-gl')  
}
```



## #4 Setting Gradle

- Go to **android/settings.gradle** then insert these two lines below:

```
include ':mapbox-react-native-mapbox-gl'  
  
project(':mapbox-react-native-mapbox-gl')  
    .projectDir = new File(rootProject.projectDir,  
        '../node_modules/@mapbox/react-native-mapbox-  
gl/android/rctmgl')
```



## #5 Main Application

- Go to **MainApplication.java** file on **android/app/src/main/java/com/namaProjek/MainApplication.java** then insert lines below:

```
import com.mapbox.rctmgl.RCTMGLPackage;
```

- Inside **getPackages()** insert:

```
protected List<ReactPackage> getPackages() {  
    return Arrays.<ReactPackage>asList(  
        new MainReactPackage(),  
        new RCTMGLPackage()  
    );  
}
```





## #6 Mapbox Token


- Signup/login to [mapbox.com](https://mapbox.com) & get your access token! Access token also can be seen at your account page.


### Install the Maps SDK

Install beautiful interactive maps in your app or website.

  
iOS


  
Android

  
Web

  
Unity

### Get your access token

Just looking for your [access token](#)?  
Here it is!

`pk.eyJ1IjoibGludGFuZ3dpc2VzYSIsImEiOiJja...` 

### Design a map style

Design a [map style](#) with your own data and visual appearance.

[Design a map style →](#)

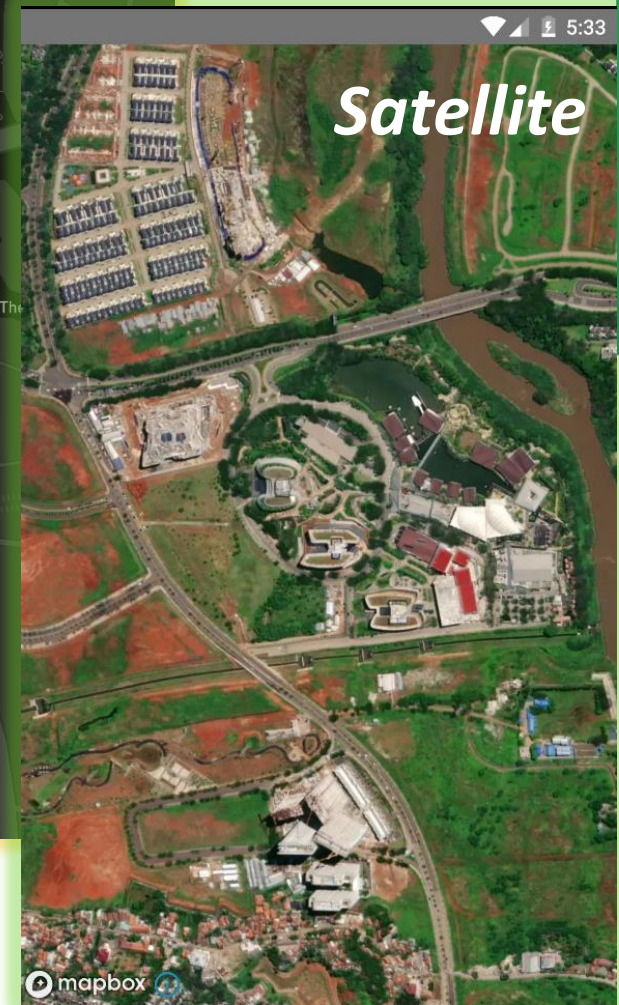
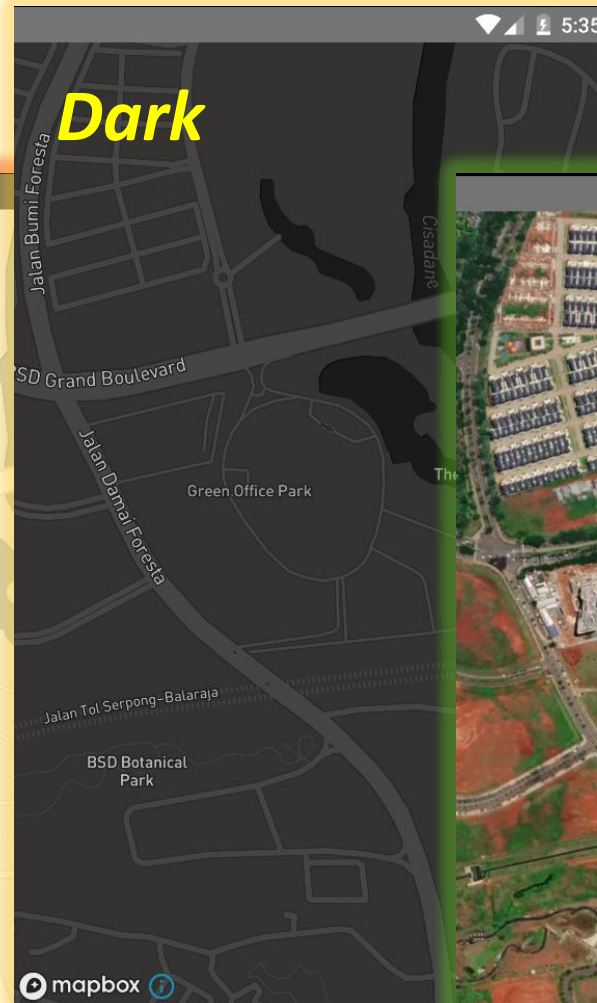
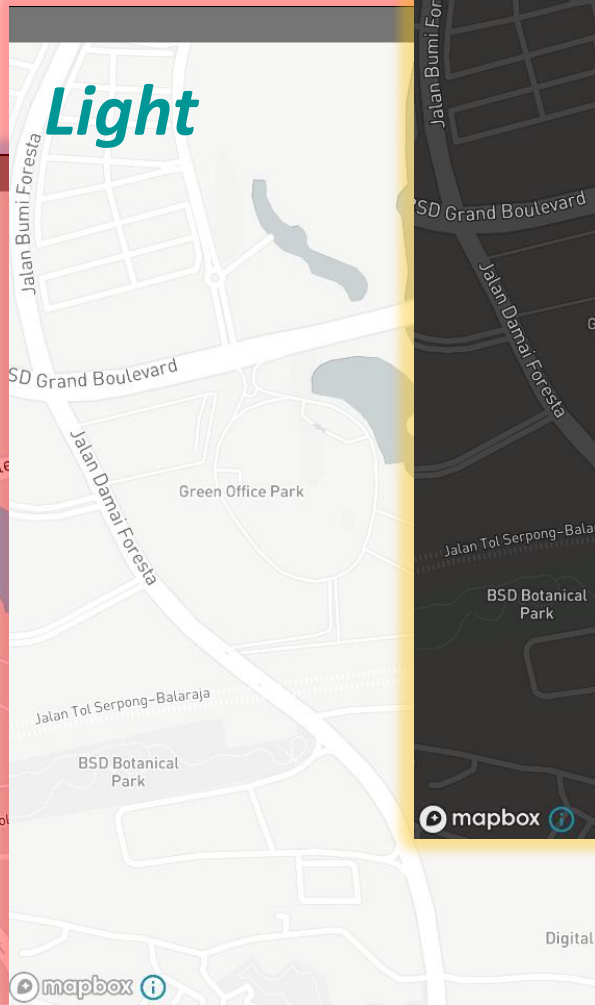
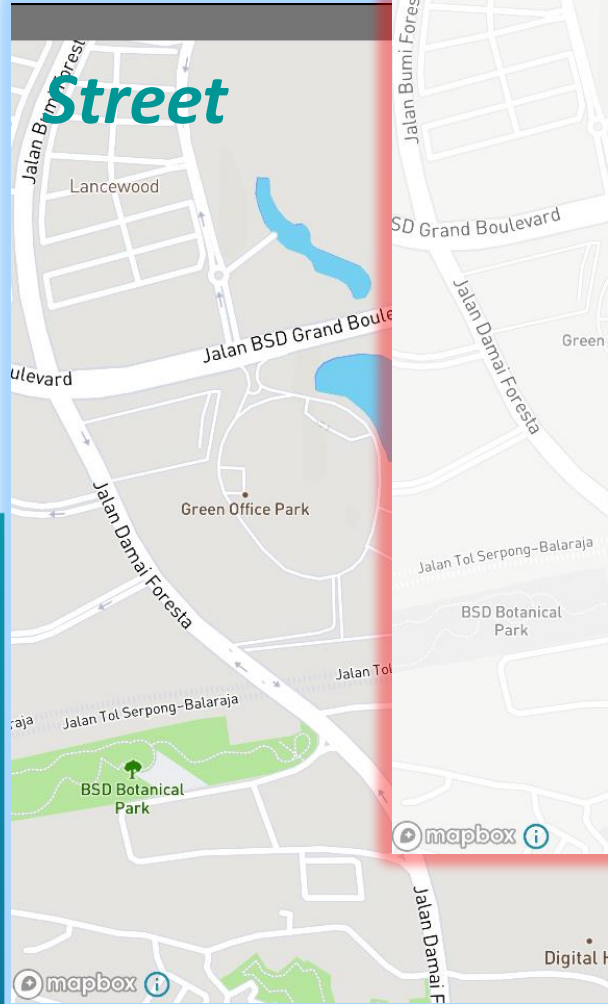


# Develop Maps in our Apps

```
import React, { Component } from 'react';
import { StyleSheet, View } from 'react-native';
import Mapbox from '@mapbox/react-native-mapbox-gl';
Mapbox.setAccessToken('insert_your_token');

export default class App extends Component{
  render() {
    return (
      <View style={styles.container}>
        <Mapbox.MapView
          styleURL={Mapbox.StyleURL.Street}
          zoomLevel={15}
          centerCoordinate={[106.652, -6.302]} //long, lat
          style={styles.container}>
        </Mapbox.MapView>
      </View>
    );
  }
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
  },
});
```



```
import React, { Component } from 'react';
import { StyleSheet, View } from 'react-native';
import Mapbox from '@mapbox/react-native-mapbox-gl';
Mapbox.setAccessToken('insert_your_token');
```

```
export default class App extends Component{
  renderAnnotations() {
    return (
      <Mapbox.PointAnnotation
        key='pointAnnotation'
        id='pointAnnotation'
        coordinate={[106.652,-6.302]}>
        <View style={styles.annotationContainer}>
          <View style={styles.annotationFill} />
        </View>
        <Mapbox.Callout title='Aku di sini!' />
      </Mapbox.PointAnnotation>
    )
  }
}
```

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• • • • •

```
render() {  
  return (  
    <View style={styles.container}>  
      <Mapbox.MapView  
        styleURL={Mapbox.StyleURL.Streets}  
        zoomLevel={15}  
        centerCoordinate={[106.652, -6.302]}  
        style={styles.container}>  
        {this.renderAnnotations()}  
      </Mapbox.MapView>  
    </View>  
  );  
}
```

• • • • •

```
• • • • •  
  
const styles = StyleSheet.create({  
  container: {  
    flex: 1,  
  },  
  annotationContainer: {  
    width: 30,  
    height: 30,  
    alignItems: 'center',  
    justifyContent: 'center',  
    backgroundColor: 'white',  
    borderRadius: 15,  
  },  
  annotationFill: {  
    width: 30,  
    height: 30,  
    borderRadius: 15,  
    backgroundColor: 'orange',  
    transform: [{ scale: 0.6 }],  
  },  
});
```



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