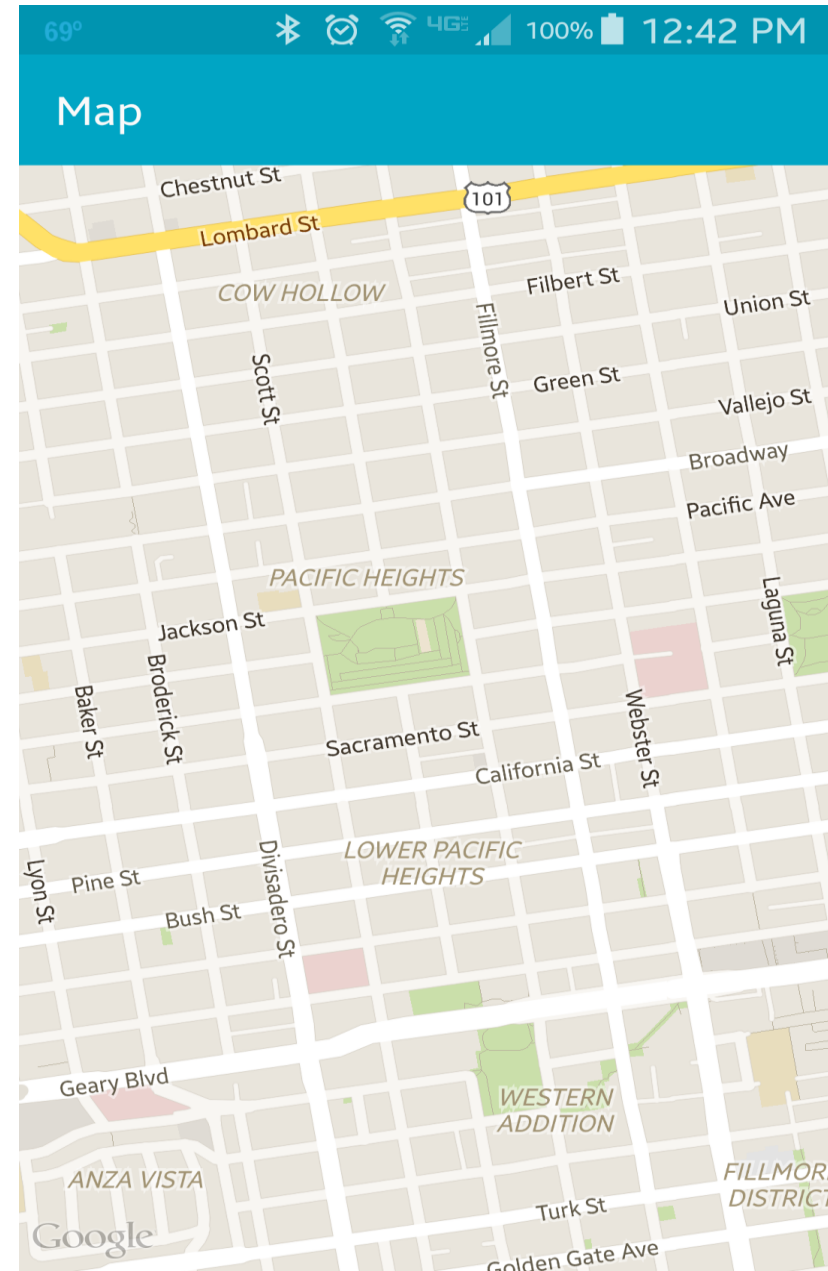
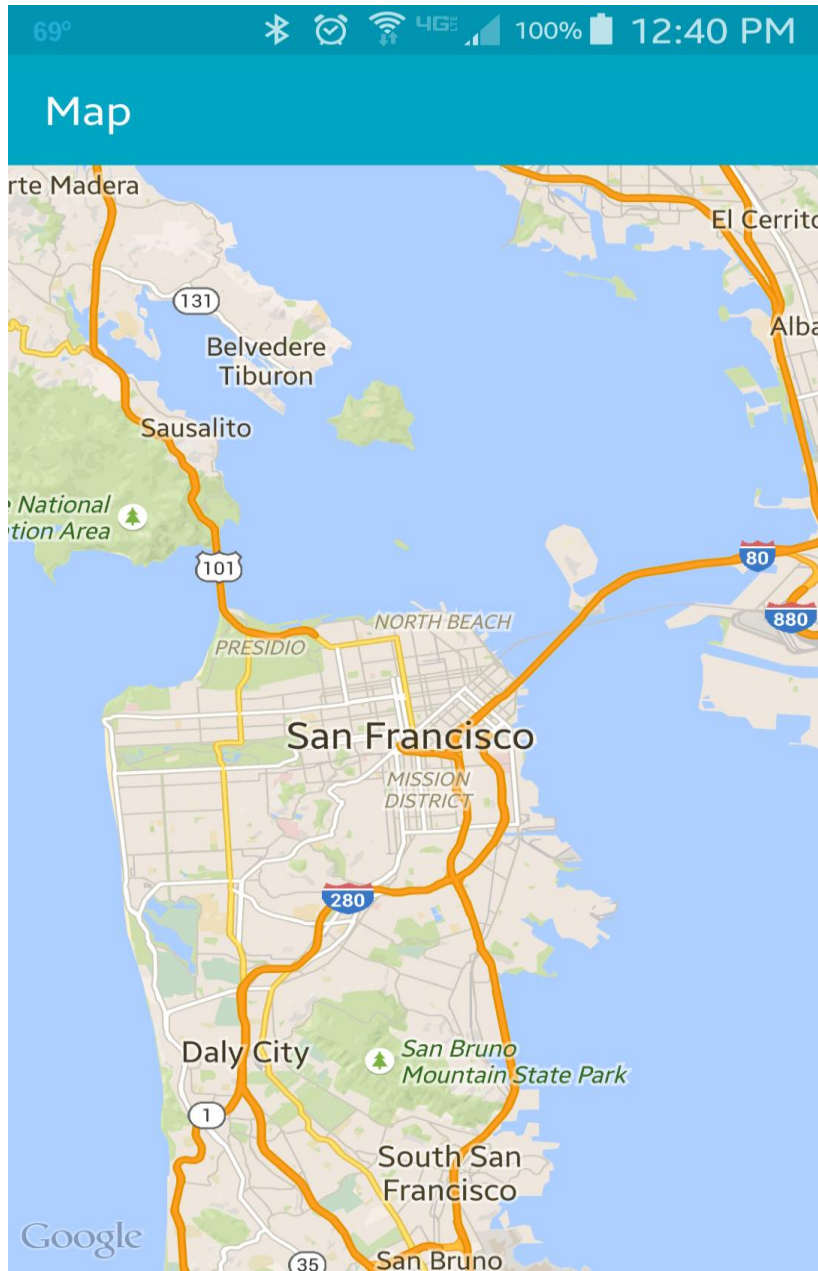


Android - Map

- This application is uses Google API to display map of San Francisco
- Google API offers `MapFragment` to show a map within a fragment
- Every application that uses Google Maps API has to
 - Register with Google
 - Obtain a Map API Key
 - Include the key in a meta-data section of `AndroidManifest.xml`
- `GoogleMap`
 - Provides access to the Google Maps API to manipulate and work with Google Maps data
- `CameraUpdate`
 - Used to manipulate certain aspects of a `GoogleMap` (e.g., zoom level, or center of the map in terms of longitude/latitude)



References

- [Google Maps API overview](#)
- [Google Developer console](#)
- [MapFragment](#)
- [GoogleMap](#)
- [CameraUpdate](#)

Exercise

- Change the hardcoded longitude/latitude coordinates so that the map shows downtown Manhattan in New York City.
- Also show a marker at those coordinates
 - (hint:
<https://developers.google.com/maps/documentation/android/marker>)