

Integrating Google Maps in Flutter web

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Step 0: Create API key using Google Cloud platform

1. Go to https://console.cloud.google.com/project/_/apiui/credential
2. Click "Select a project" from top bar and create a new project with a meaningful name.
3. On the newly create project page, select "Credentials" option from left pane.
4. Below the top bar, you will see "+ CREATE CREDENTIALS" option. Click and select API key. The API key created dialog displays your newly created API key.
5. Click Close. The new API key is listed on the Credentials page under API keys.

Step 1: Create Flutter app

1. Create a flutter app with boilerplate code using Visual Studio Code
2. Open pubspec.yaml file. Add "google_maps:" to dependencies section under "cupertino_icons: ^1.0.1".
3. Open index.html and add the following statement inside the body section:

```
<script src="https://maps.googleapis.com/maps/api/js?
key=YOUR_GOOGLE_CREDENTIALS_API_KEY"></script>
```

Step 2: Update the boilerplate code

```
import 'package:flutter/material.dart';
import 'package:google_maps/google_maps.dart';
import 'dart:ui' as ui;
import 'dart:html';

void main() { runApp(MyApp());}

class MyApp extends StatelessWidget {
  // This widget is the root of your application.
  @override
  Widget build(BuildContext context) { return getMap();}
}

Widget getMap() {
  String htmlId = "27";
  // ignore: undefined_prefixed_name
  ui.platformViewRegistry.registerViewFactory(htmlId, (int viewId) {
    final myLatLng = LatLng(45.51999139651352, -120.79857460430122);
    final mapOptions = MapOptions()
      ..zoom = 10
      ..center = LatLng(45.51999139651352, -120.79857460430122);
    final elem = DivElement()
      ..id = htmlId
      ..style.width = "100%"
      ..style.height = "100%"
      ..style.border = 'none';
    final map = GMap(elem, mapOptions);

    Marker(MarkerOptions()
      ..position = myLatLng
      ..map = map
      ..title = 'Hello World!');

    return elem;
  });
  return HtmlElementView(viewType: htmlId);
}
```