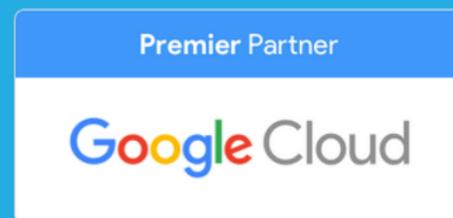


CUSTOMIZING GOOGLE MAPS IN THE CLOUD

Stand out thanks to the
new customization tools
for Google Maps



In the last beta version, Google introduced new tools supporting map customization in the Google Cloud Platform. What does this mean?

You will gain **more control over the content displayed on your maps** and you will be able to easily adjust it to your own needs. The new, flexible tools **simplify and speed up map updates.**

Discover the new possibilities and how to use them!



The new functions include:

- A style editor
- Creating and managing map IDs
- Creating and managing custom map styles
- Tools for dynamic style updates.



The new functions allow you to:

- customizing maps in the cloud
- dynamic map updating without the need of adding JSON with a style to the code.



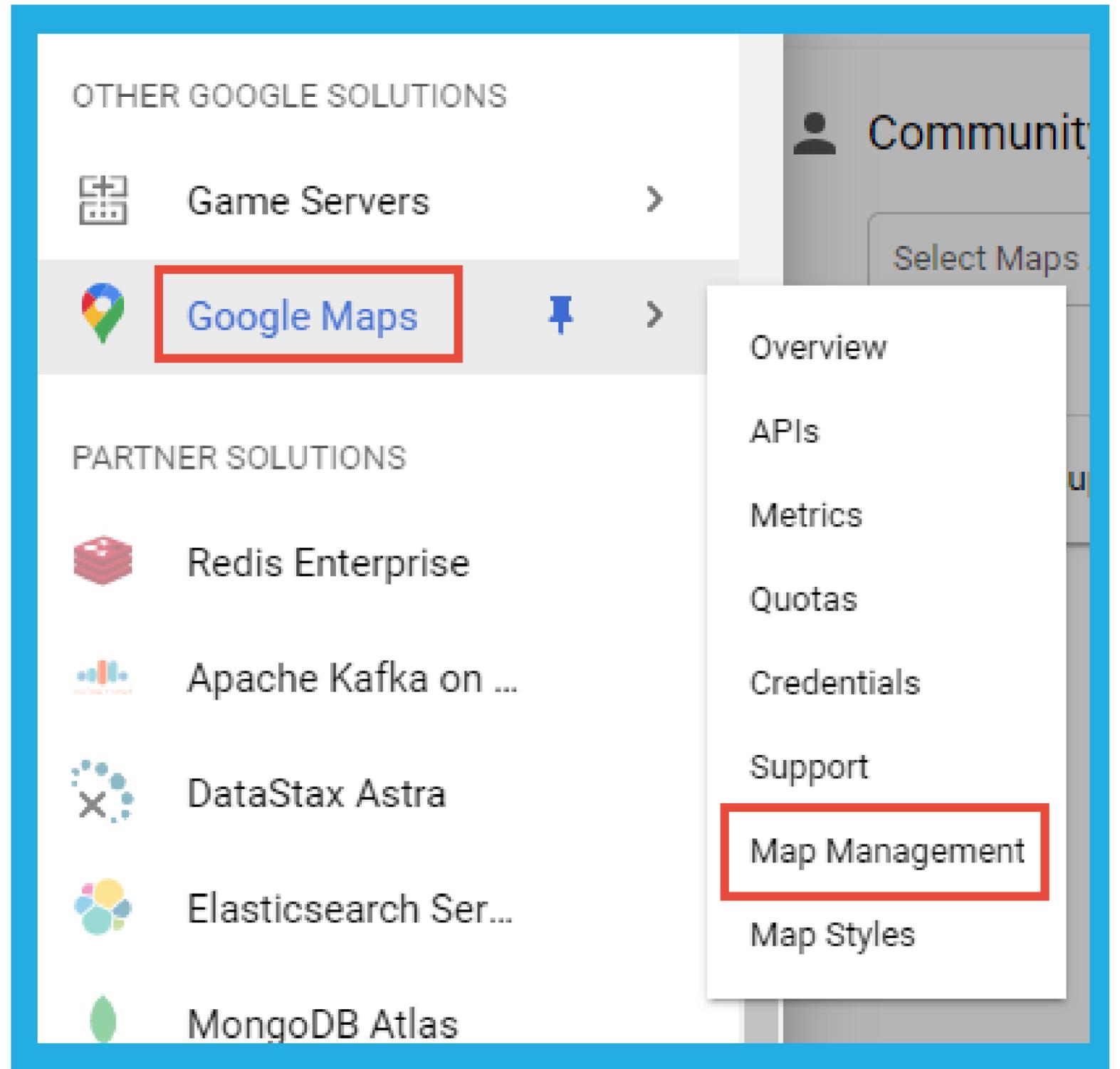
This is possible because of creating the **Map ID**. Its number clearly indicates map's instance. We recommend placing map style in the Map ID. This way, it can be dynamically changed later without editing the application code. Use the creator in the cloud or JSON with style information to create styles.

How can you use the new functions?

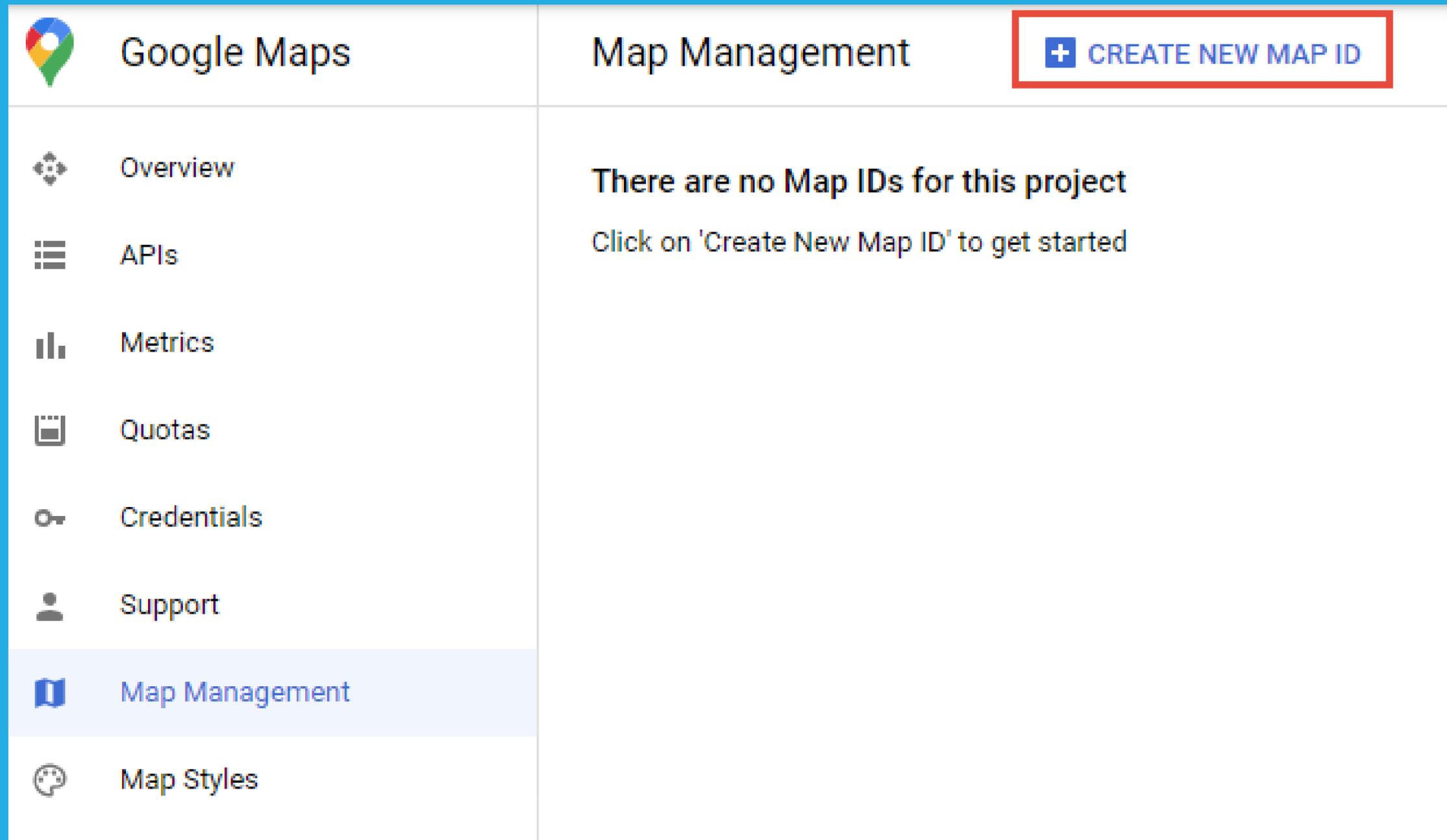
All you need is three steps!

1 Create a Map ID

How can you do it? Go to the **Google Maps** section in the main menu and then choose the **Map Management** option.



Next, click on **Create New Map ID:**



The screenshot displays the Google Maps API console interface. On the left is a navigation sidebar with the Google Maps logo at the top, followed by menu items: Overview, APIs, Metrics, Quotas, Credentials, Support, Map Management (highlighted), and Map Styles. The main content area is titled 'Map Management' and contains the text: 'There are no Map IDs for this project' and 'Click on 'Create New Map ID' to get started'. A red rectangular box highlights the '+ CREATE NEW MAP ID' button in the top right corner of the main content area.

Fill out the required fields: map name and map type (choose from Static, JavaScript, Android or iOS). You can also add a description.

Google Maps

← Create Map ID

Map ID Details

Map name *
TestMap

Map type *
JavaScript

Raster
 Vector

Description
0 / 300

CANCEL NEXT

After filling out the fields and clicking "Next", you will see your new Map ID:

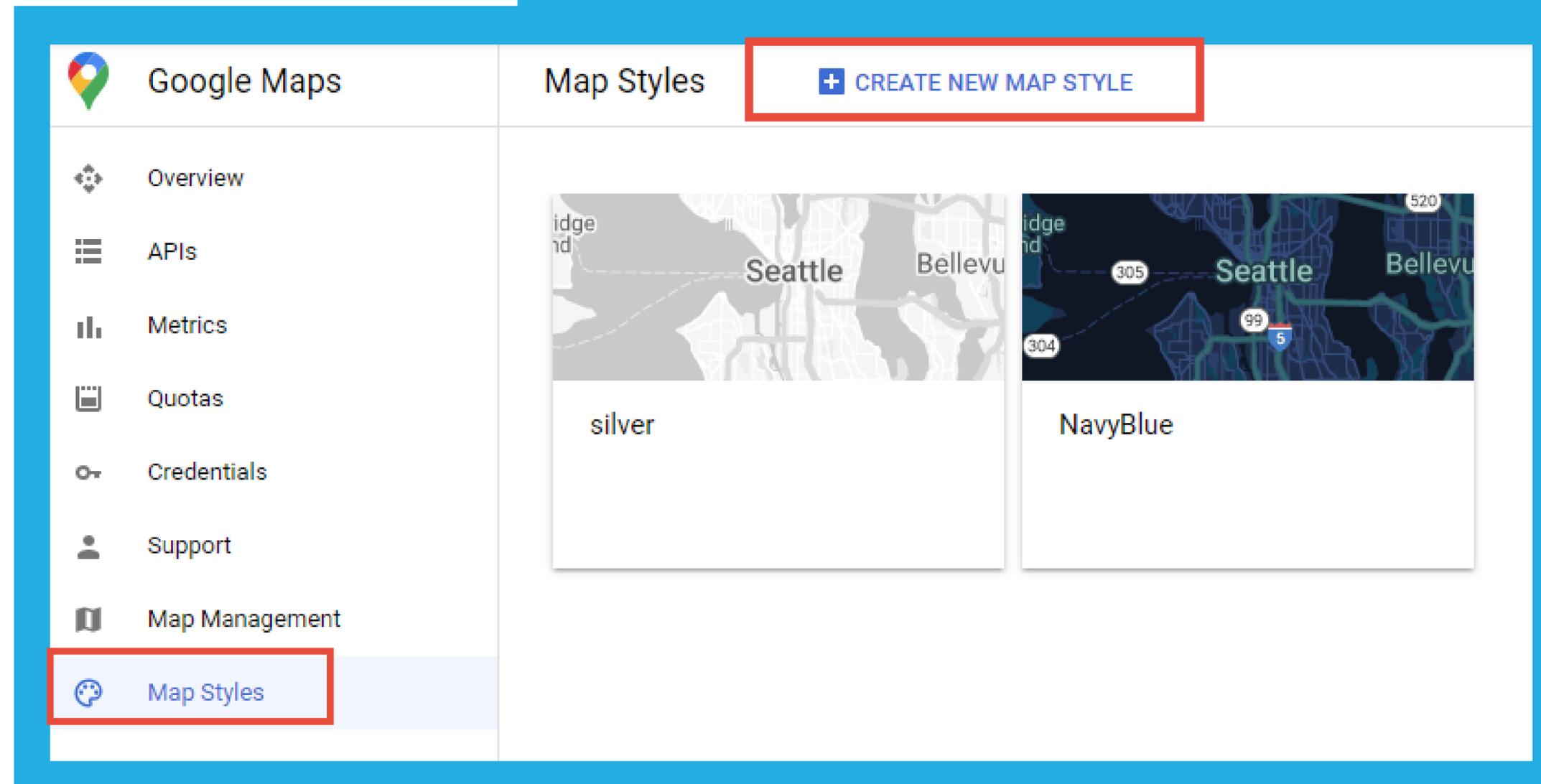
Your New Map ID is:

[MANAGE MAP ID](#)

You can use it while creating a map in the application.

2 Create map style for a particular Map ID

To create a new map style, go to the **Map Styles** and click on **Create New Map Style**:



When you create a new style, you can either choose predefined style or import a JSON with a preexistent style. You can modify a chosen style in the **Customise Map Style** step:

- Get started

- Associate Map IDs

Optional

- **Customise map style**

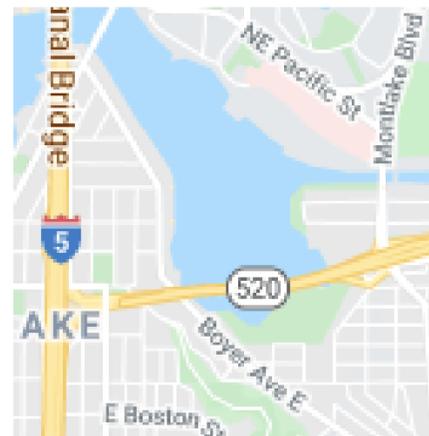
Optional

- Save Map Style

MAP STYLE

IMPORT JSON

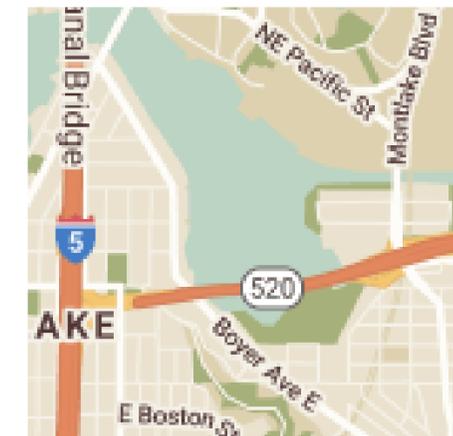
Select a color theme



Standard



Silver



retro

NEXT

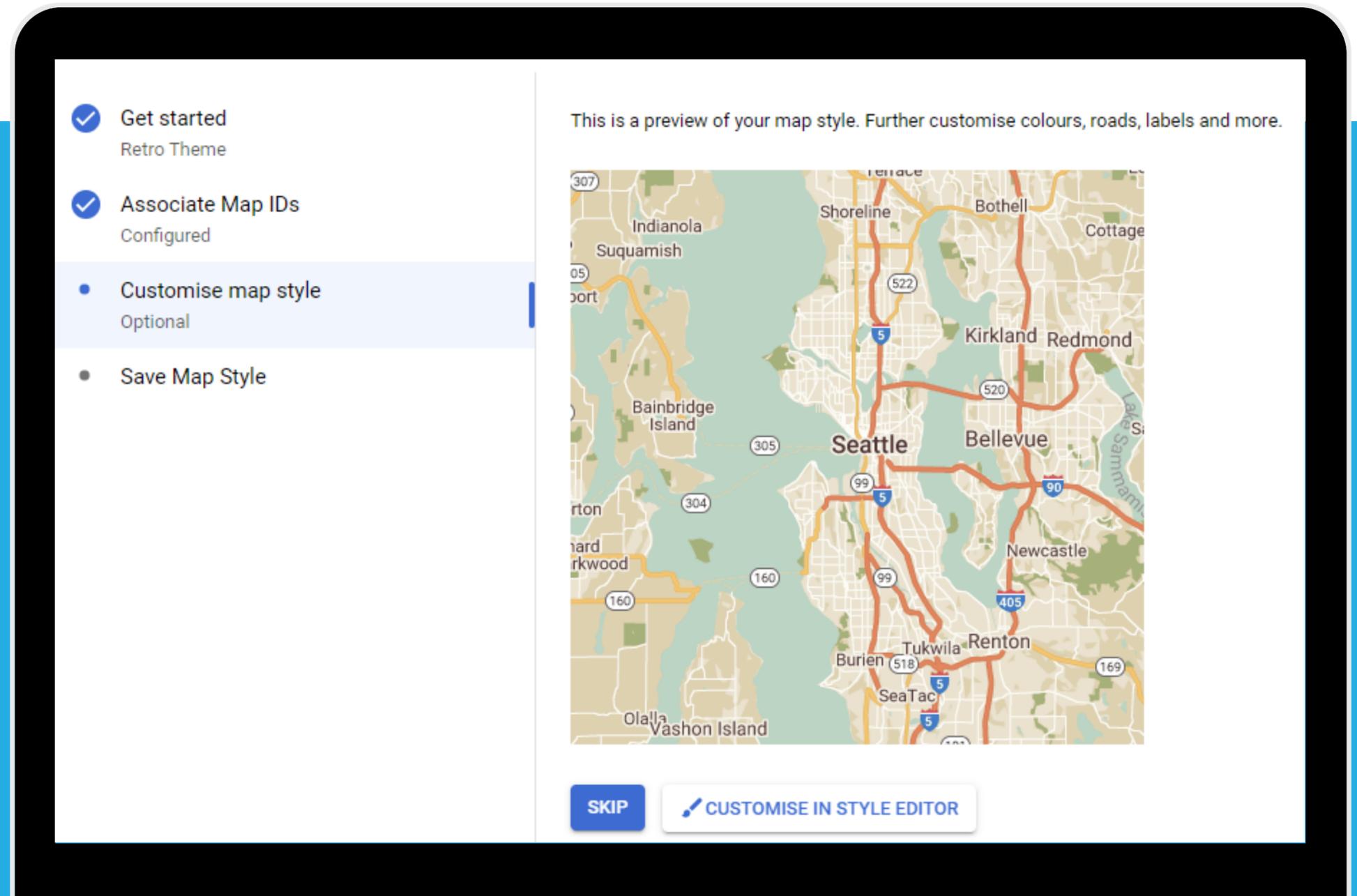
In the next step you will associate your map style to a particular Map ID:

The screenshot shows a configuration interface with a sidebar on the left and a main content area on the right. The sidebar contains a list of steps: 'Get started' (checked), 'Associate Map IDs' (selected), 'Customise map style', and 'Save Map Style'. The main content area displays a table with the following data:

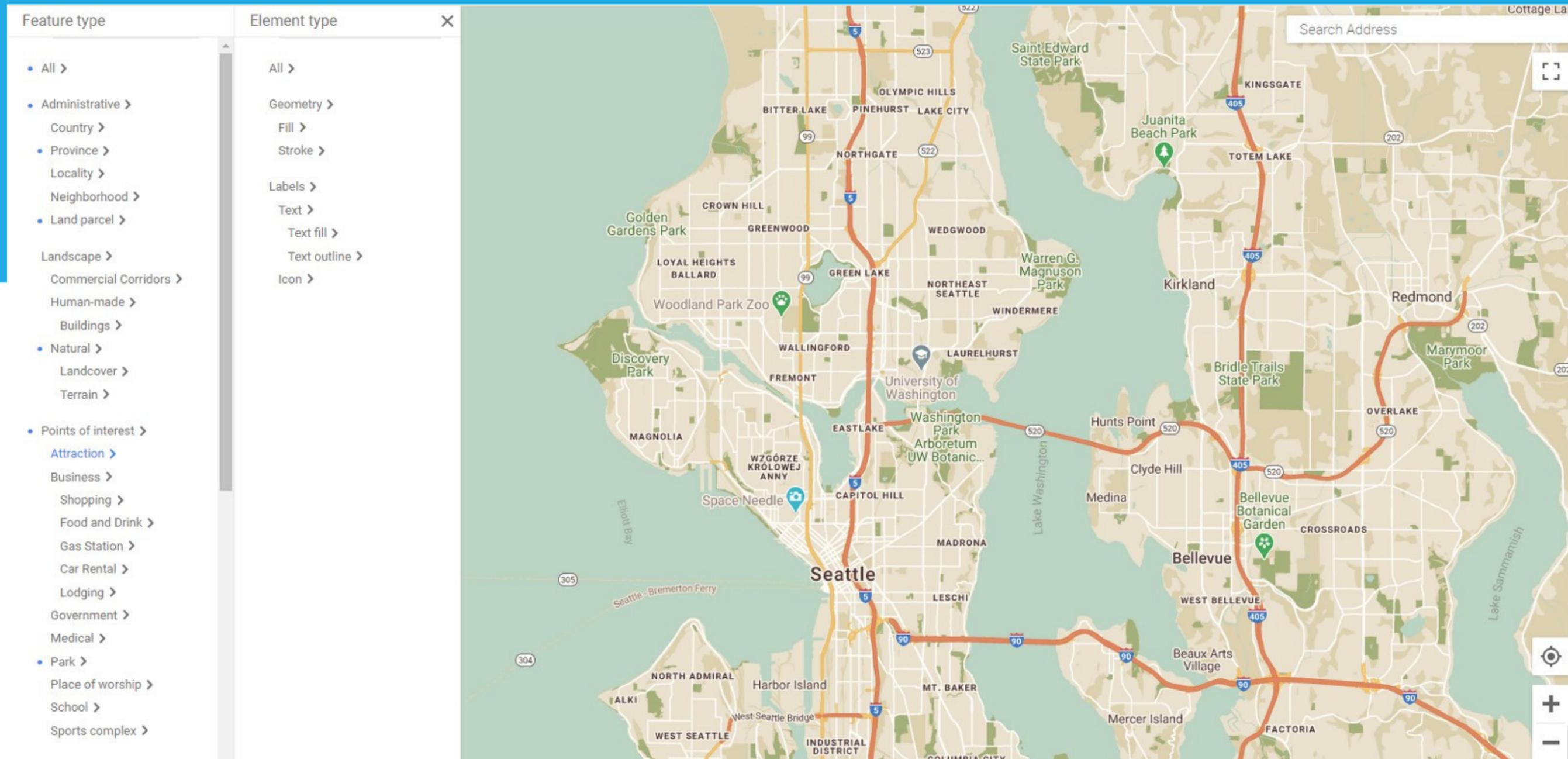
Map Name	Map ID	Map Type
TestMap	999e4eac74f43061	JS

A blue 'NEXT' button is located below the table.

Next step allows you to perform additional modifications of the chosen map. You can skip this step or launch a style editor for editing styles of each element of the map.



After clicking on **Customise In Style Editor**, you can easily modify particular map elements such as administrative areas, landscape, POI, or roads:

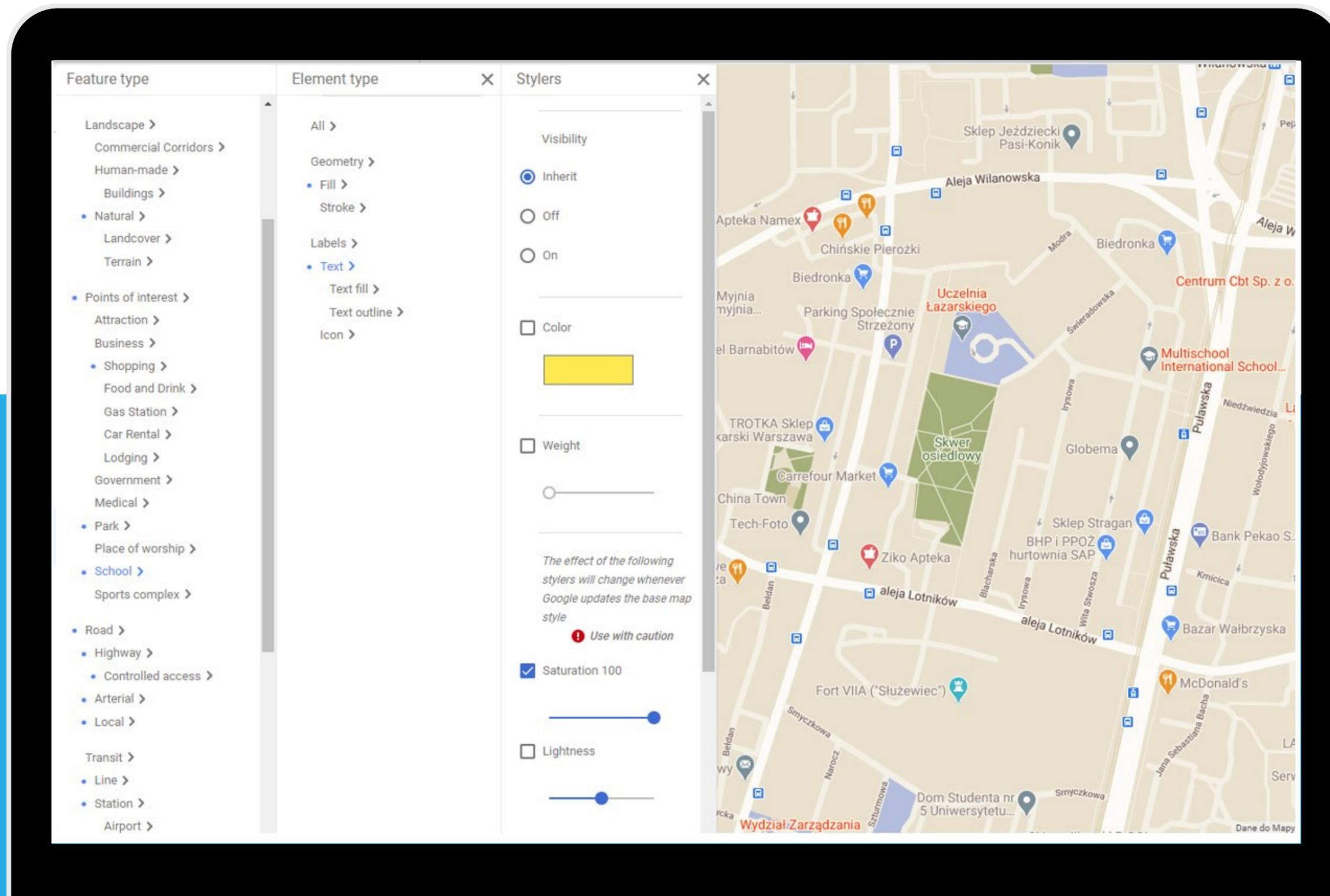


For example, to mark every university on the map in grey color, choose Points of Interest - School - Geometry - Fill and choose the following options:

The screenshot displays a map styling interface with three main panels: Feature type, Element type, and Stylers, alongside a map view.

- Feature type:** A hierarchical list of categories. 'Points of interest' is expanded to show 'School'.
- Element type:** A list of styling options for the selected feature. 'Fill' is selected.
- Stylers:** A configuration panel for the 'Fill' style.
 - Visibility:** Radio buttons for 'Inherit' (selected), 'Off', and 'On'.
 - Color:** A checked checkbox next to 'Color #bbc2d8' with a corresponding color swatch.
 - Weight:** A checked checkbox next to 'Weight 4' with a slider control.
 - Lightness:** A checked checkbox next to 'Lightness' with a slider control.
 - Saturation:** A checked checkbox next to 'Saturation 21' with a slider control.
 - Lightness (bottom):** A checked checkbox next to 'Lightness' with a slider control.
- Map View:** A map of Warsaw, Poland, showing various points of interest. A university building is highlighted in grey, matching the selected style.

To change the color of university names, click Labels and change Saturation to e.g. 100:



To show building contours
choose Landscape - Buildings
- Geometry - Stroke and set
the following options:

The image shows the Google Maps styling interface with three panels: Feature type, Element type, and Stylers. The Feature type panel is set to 'Landscape' and 'Buildings'. The Element type panel is set to 'Geometry' and 'Stroke'. The Stylers panel shows the following settings:

- Visibility: Inherit, Off, On
- Color: Color #470000 (with a dark red color swatch)
- Weight: Weight (with a slider)
- Saturation: Saturation (with a slider)
- Lightness: Lightness (with a slider)

A warning message states: "The effect of the following stylers will change whenever Google updates the base map style. Use with caution".

The background shows a map of a street grid with building outlines highlighted in dark red. Labels on the map include: "Irysowa", "WESSLY Sp. z oo Auditing & Consulting", "Geotest", "New Look Advertising Sp. z oo", "Romi", "Hostel Monolight 2", "MX35 Camera Rental", "Wifa Stwosza", "Centrum Szkoleniowe FRR.Sp. z oo", "Lab-Wet. Weterynaryjne laboratorium...", "Fryzjer Me", "Foto Studio M Nowakowska - fotogra", "DRG-MedTek Sp. z o.o. Sprzet medyczny", "Globema", "Centrum Rehabilitacji Holistycznej - Terapia...", "Sklep Stragan Sklep z akcesoriami magicznymi", "Karmnik dla ptaków", "BHP i PPOŻ hurtownia-SAP", and "GoldCare".

Finally, click **Save** in the upper right corner:



In the last step name your style and then click on
Save & Publish:

The screenshot shows a configuration interface for a map style. On the left is a sidebar with four steps:

- ✓ Get started
Retro Theme
- Associate Map IDs
Optional
- Customise map style
Optional
- ✓ Save Map Style
Configured

The 'Save Map Style' step is highlighted in light blue. The main area contains a form with the following fields:

- Name**: A text input field containing 'TestStyle'.
- Description**: A text area field, currently empty.
- SAVE & PUBLISH**: A blue button with white text, highlighted with a red rectangular border.

3

To use your created style, add it as a parameter to the API Google boot script.

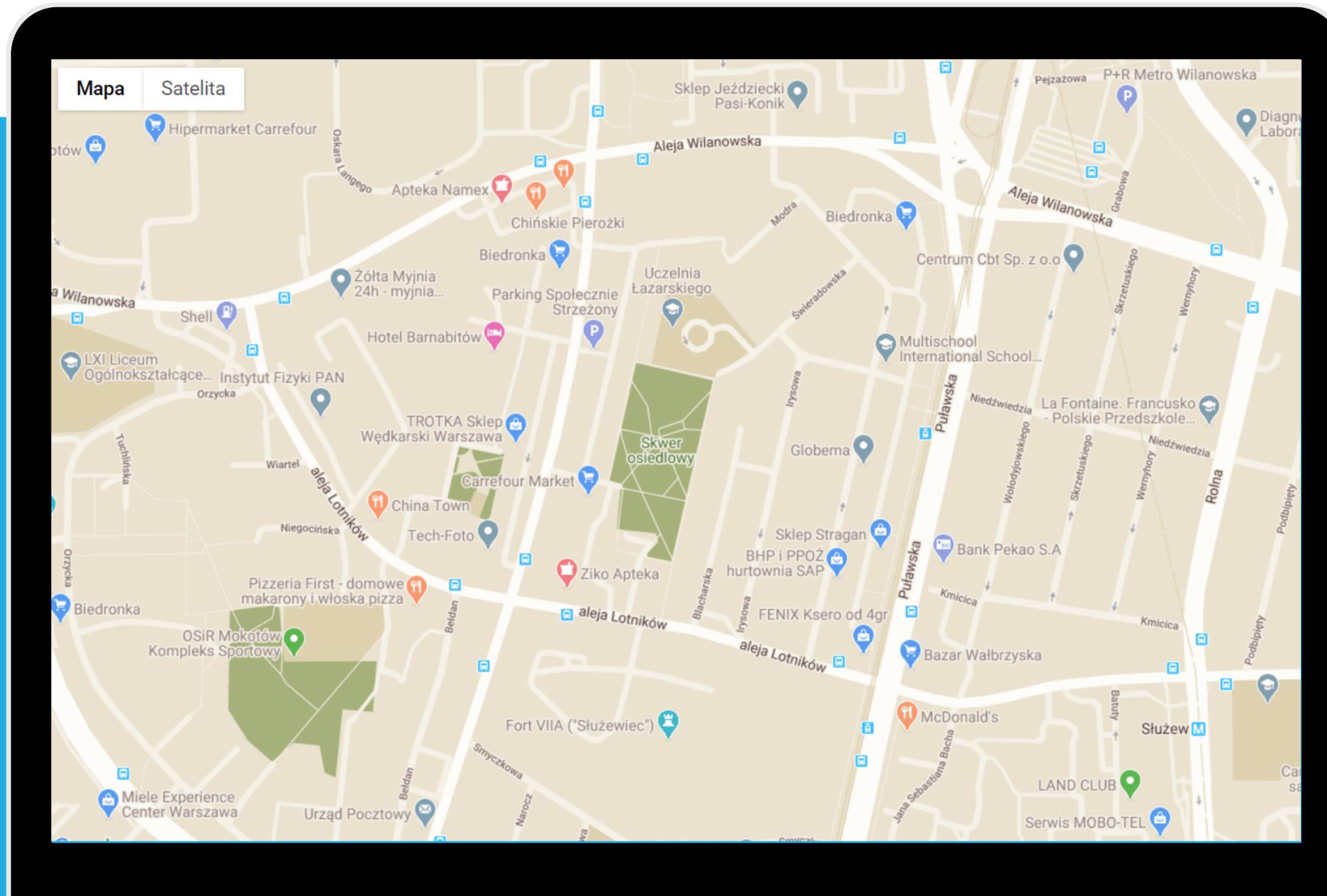
Make sure to choose the beta version (v=beta):

```
<script  
src="https://maps.googleapis.com/maps/api/js?key=API_KEY&callback=initMap&libraries=localContext&v=beta&map_ids=999e4eac74f43061" defer>  
</script>
```

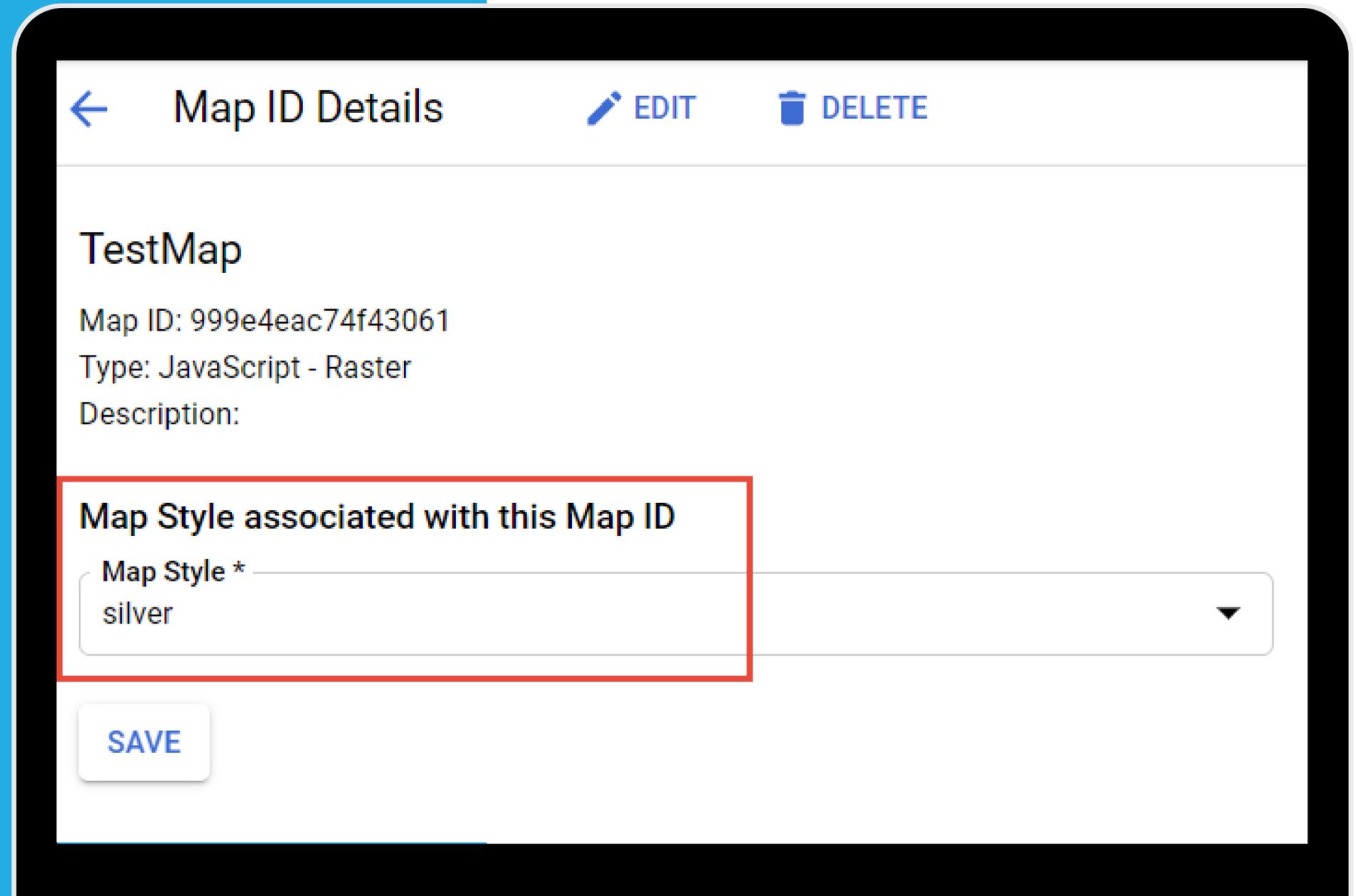
Next, add the Map ID to the map constructor:

```
function initMap() {  
  map = new google.maps.Map(document.getElementById("map"), {  
    center: {  
      lat: 52.176087,  
      lng: 21.019588  
    },  
    zoom: 16,  
    mapId: '999e4eac74f43061'  
  });  
}
```

After reloading the page, created style will be used by the map:

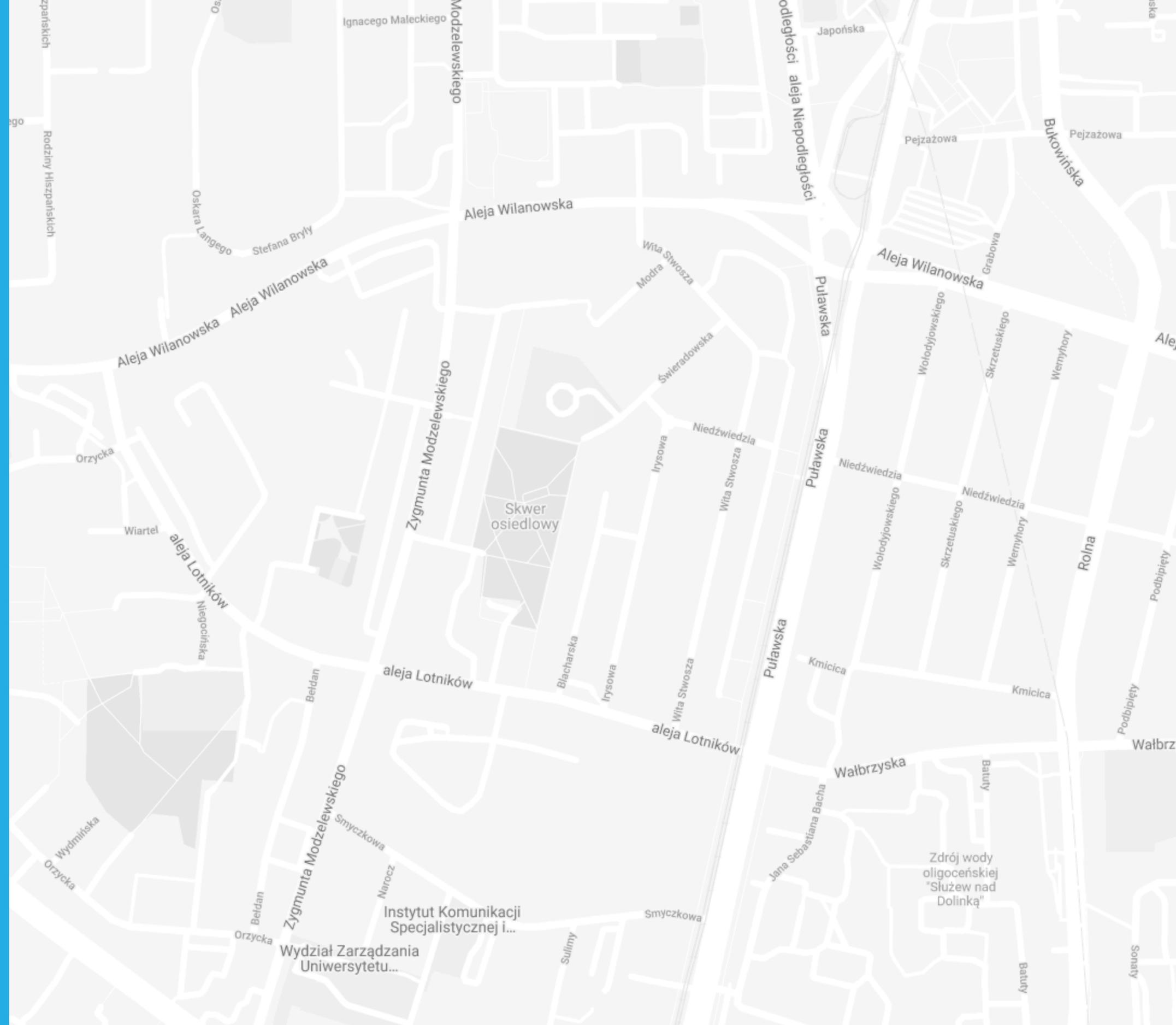


This solution allows you to dynamically modify the style. You don't have to change the source code in order to change the style. All you have to do is change style associated with Map ID in the Google Cloud Platform.

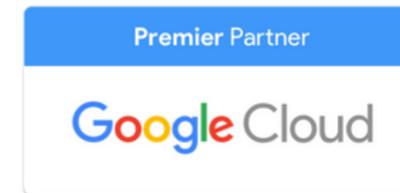


After saving and refreshing the page, map will change its style.

Your map is ready!



Do you have any questions? We will be glad to help you!



Globema is a Polish IT company active on the market for more than 20 years. We are a **Google Cloud Premier Partner** and the only **Google Maps Premier Partner** in Poland. We operate in Poland and Central and Eastern Europe. Globema offers Google Maps Platform products and provides innovative IT solutions based on Google Maps that support many industries.

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