

# 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.



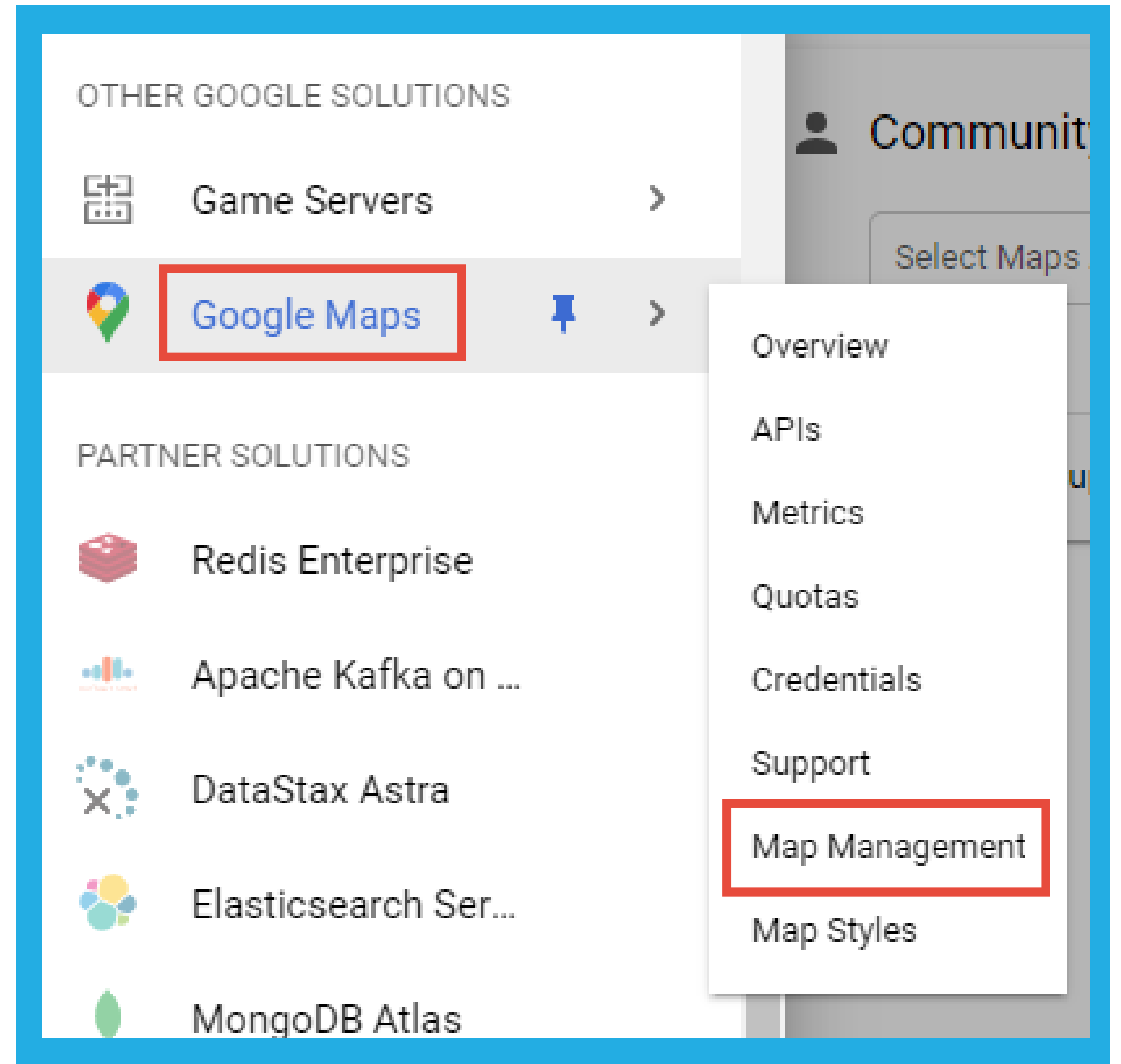
This is possible because of creating the **Map ID**. Its number clearly indicates map's instance. We recommend placing map style in the Map ID. This way, it can be dynamically changed later without editing the application code. Use the creator in the cloud or JSON with style information to create styles.

**How can you use the new functions?**

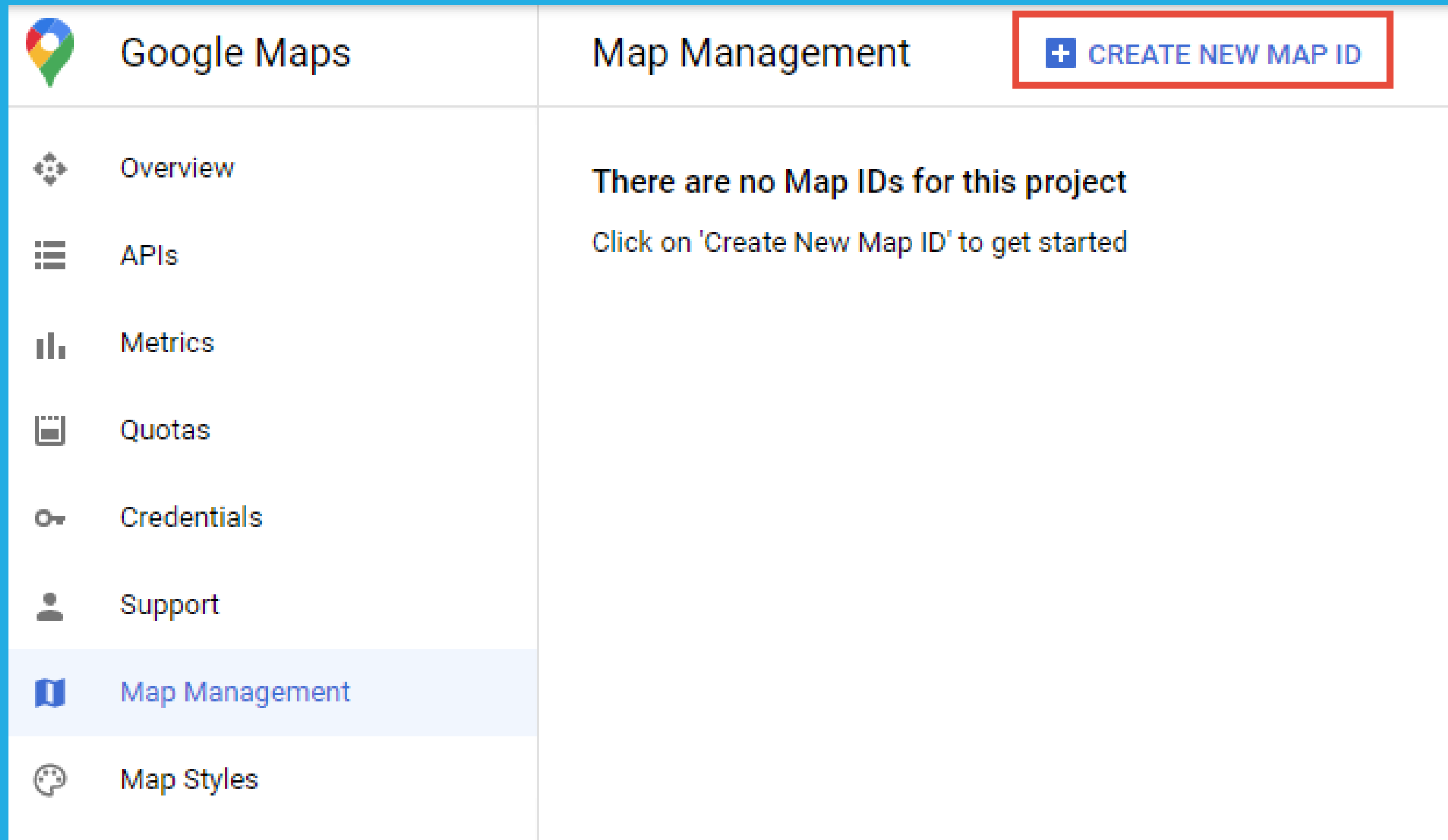
**All you need is three steps!**

# 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:**

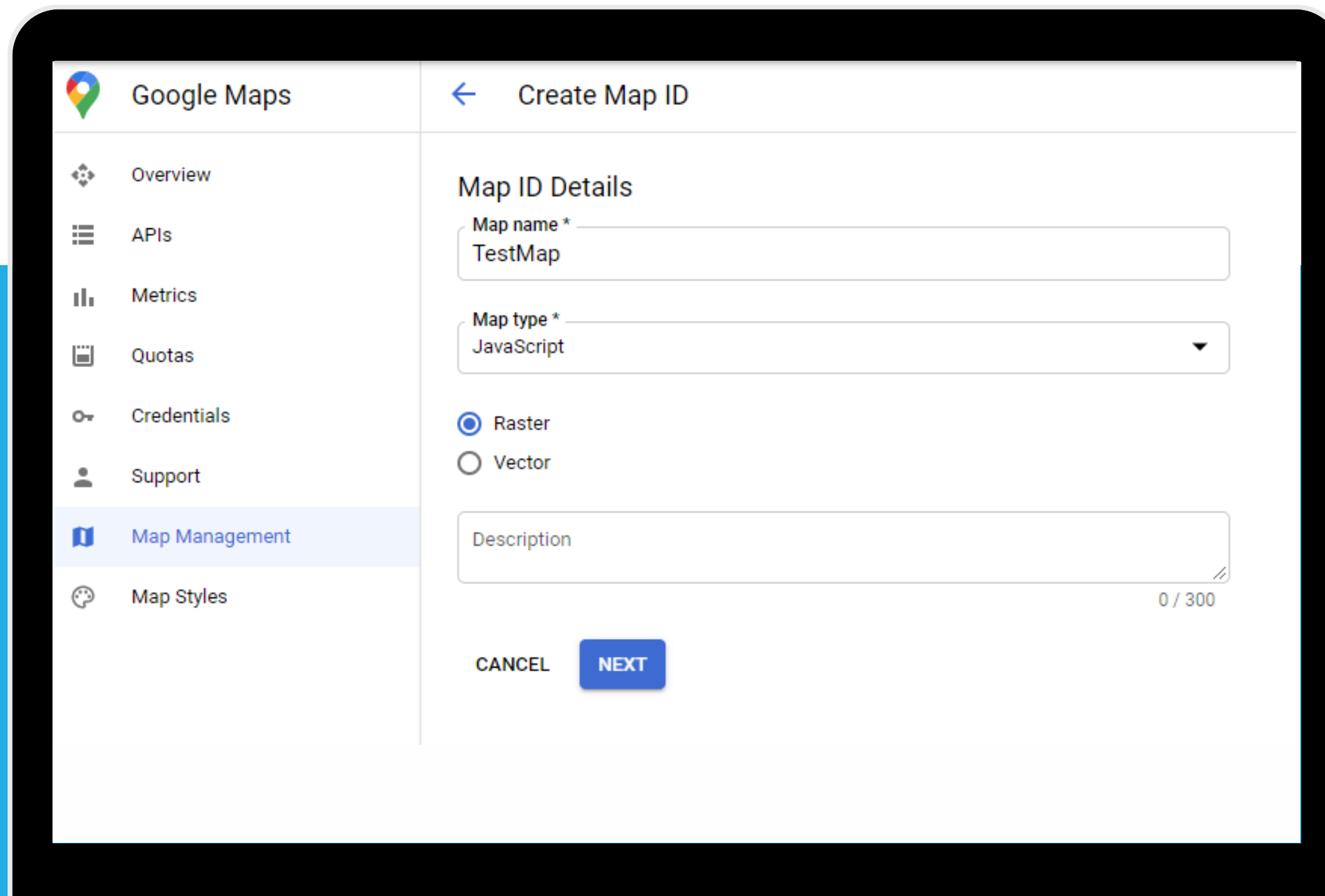


The screenshot displays the Google Maps API console interface. On the left is a sidebar with the Google Maps logo and a list of navigation items: Overview, APIs, Metrics, Quotas, Credentials, Support, Map Management (which is highlighted with a light blue background), and Map Styles. The main content area is titled 'Map Management' and contains a red-bordered button labeled '+ CREATE NEW MAP ID'. Below the button, the text reads: 'There are no Map IDs for this project' and 'Click on 'Create New Map ID' to get started'.


| Google Maps   | Map Management  |
|---|---|
| <ul style="list-style-type: none"><li>Overview</li><li>APIs</li><li>Metrics</li><li>Quotas</li><li>Credentials</li><li>Support</li><li><b>Map Management</b></li><li>Map Styles</li></ul> | <p><b>+ CREATE NEW MAP ID</b></p> <p>There are no Map IDs for this project</p> <p>Click on 'Create New Map ID' to get started</p> |



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



The screenshot shows the 'Create Map ID' page in the Google Maps developer console. On the left is a sidebar with navigation links: Overview, APIs, Metrics, Quotas, Credentials, Support, Map Management (highlighted), and Map Styles. The main content area is titled 'Create Map ID' and contains a 'Map ID Details' section. This section includes a text input for 'Map name \*' with the value 'TestMap', a dropdown for 'Map type \*' set to 'JavaScript', and radio buttons for 'Raster' (selected) and 'Vector'. Below these is a text area for 'Description' with a character count of '0 / 300'. At the bottom are 'CANCEL' and 'NEXT' buttons.

 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:

999e4eac74f43061

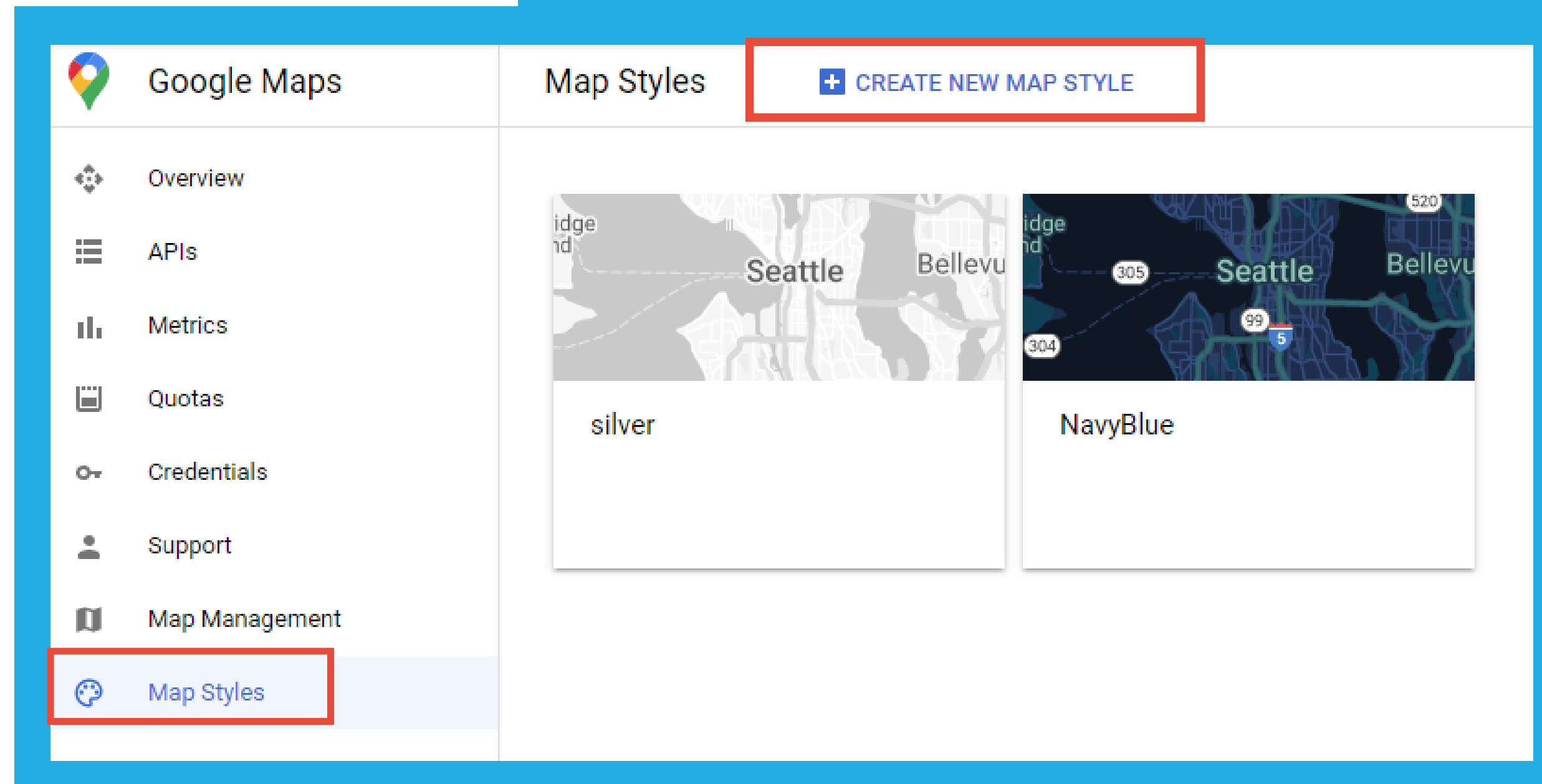
MANAGE MAP ID

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**:

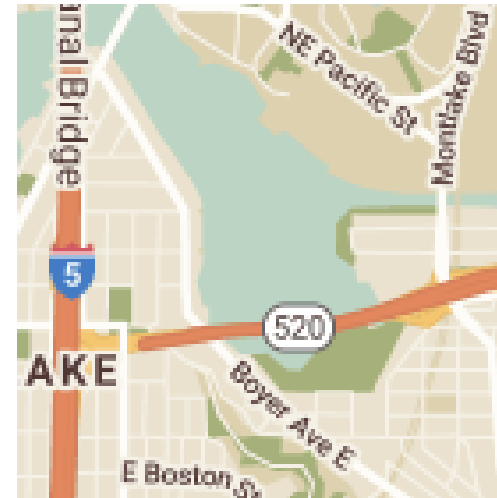

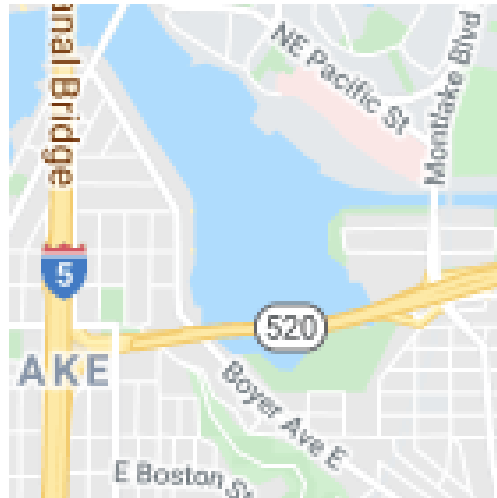


When you create a new style, you can either choose predefined style or import a JSON with a preexistent style. You can modify a chosen style in the **Customise Map Style** step:

- Get started
- Associate Map IDs  
Optional
- Customise map style  
Optional
- Save Map Style

MAP STYLEIMPORT JSON

Select a color theme



☒ Standard☐ Silver☐ retro

NEXT

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

✓ Get started  
Retro Theme

● Associate Map IDs  
Optional

● Customise map style  
Optional

● Save Map Style

✓ Map Name ↑

✓ TestMap

Map ID

999e4eac74f43061

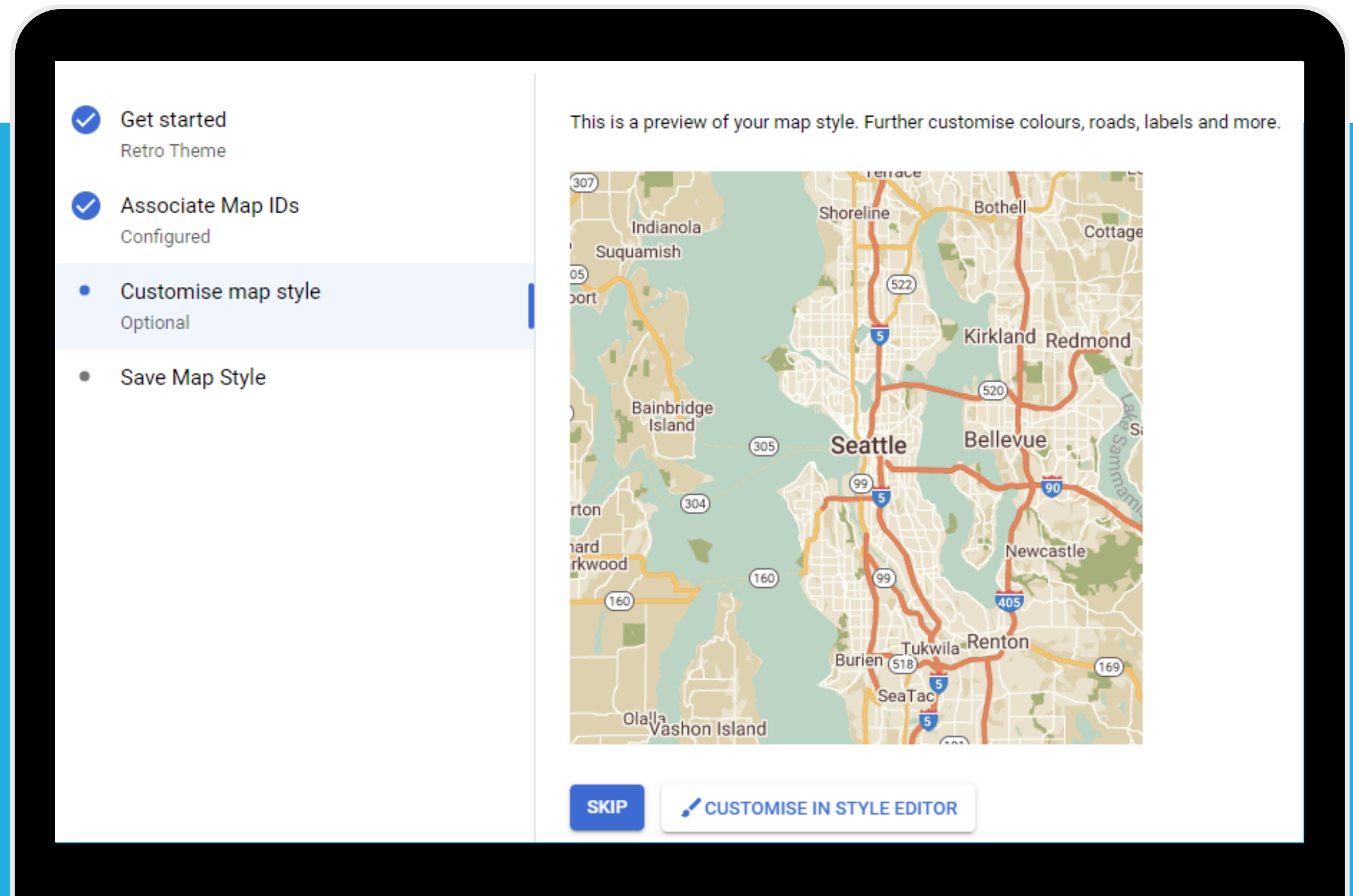
Map Type

JS

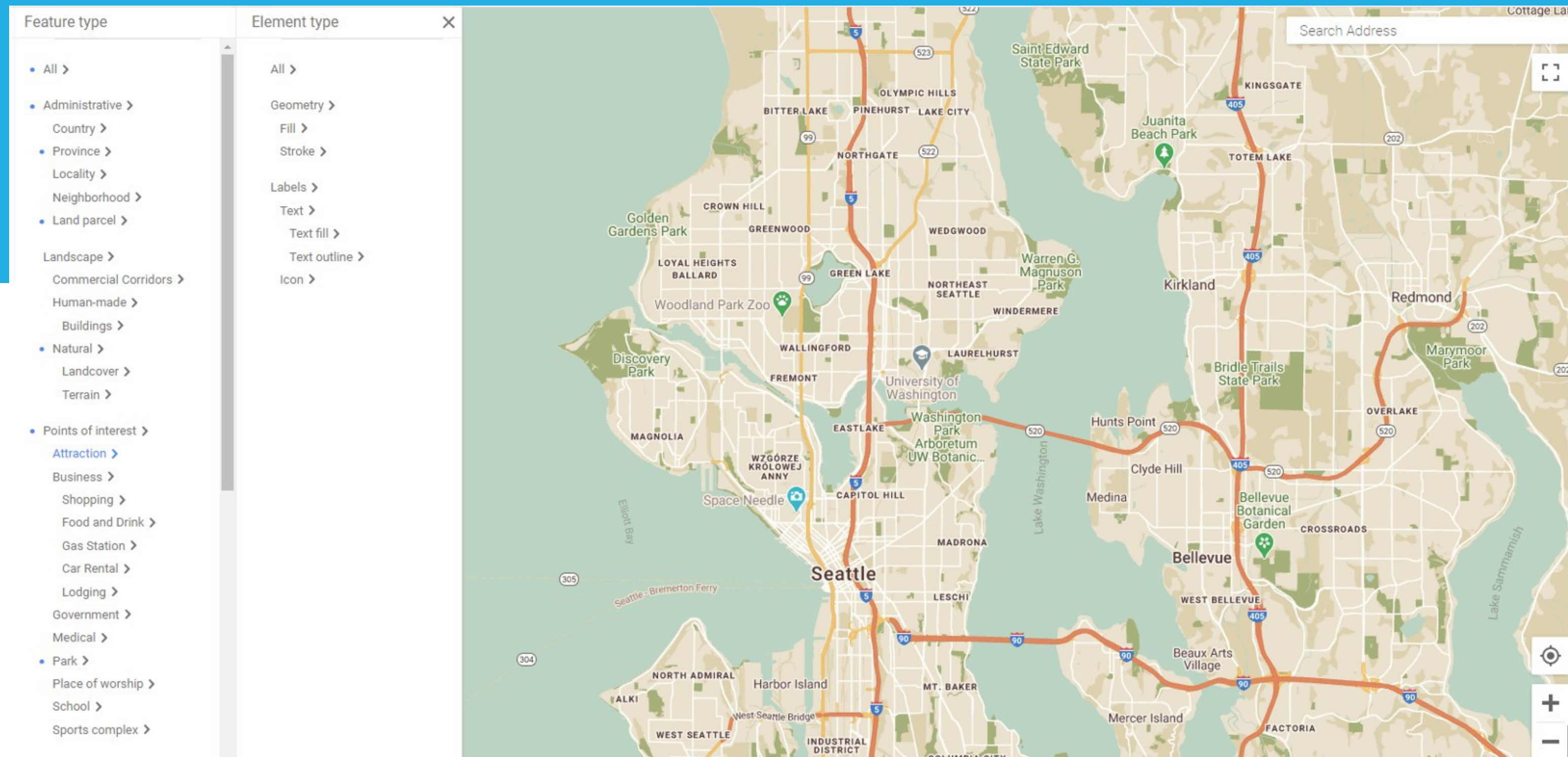
NEXT



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.

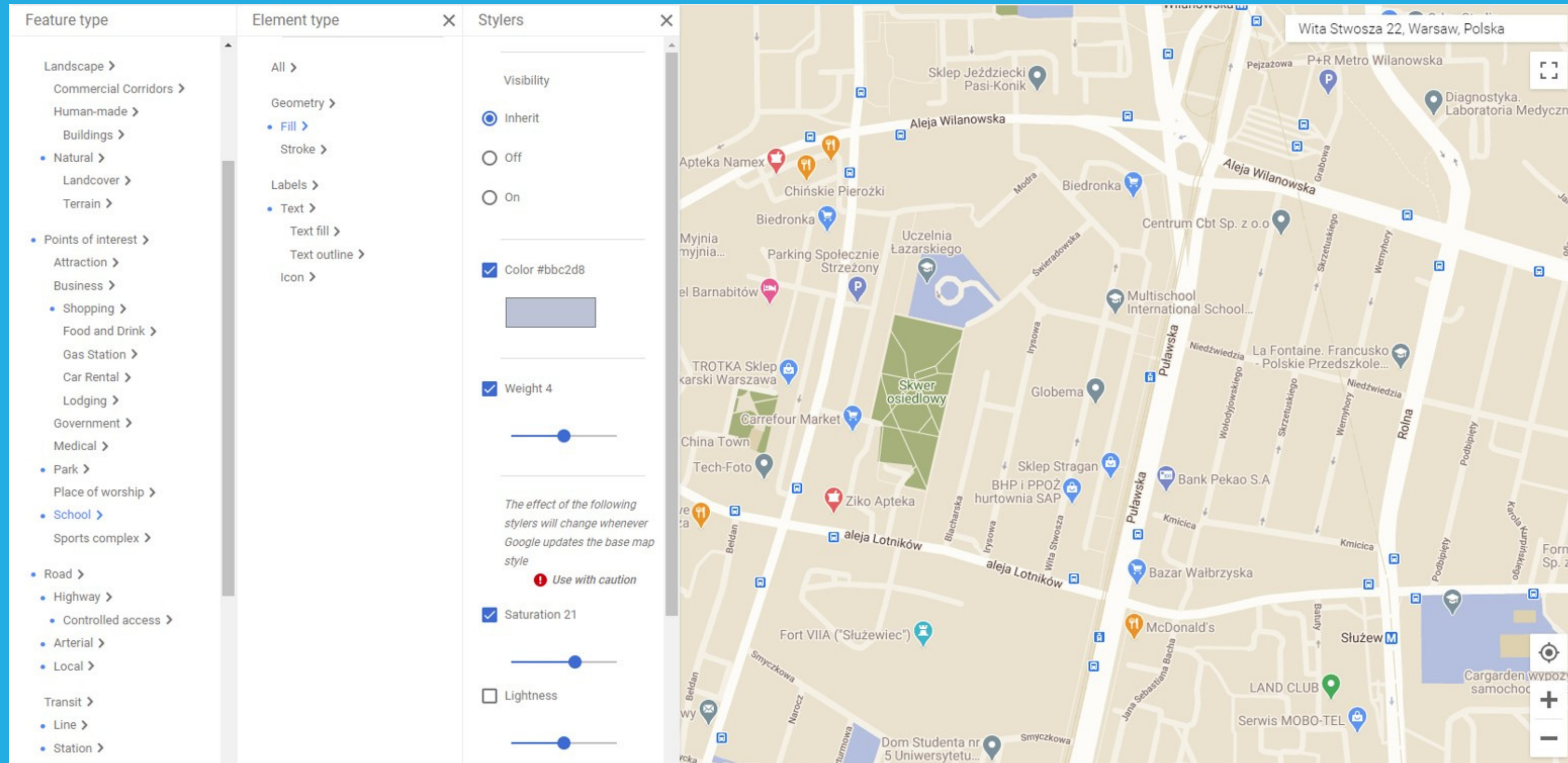


After clicking on **Customise In Style Editor**, you can easily modify particular map elements such as administrative areas, landscape, POI, or roads:



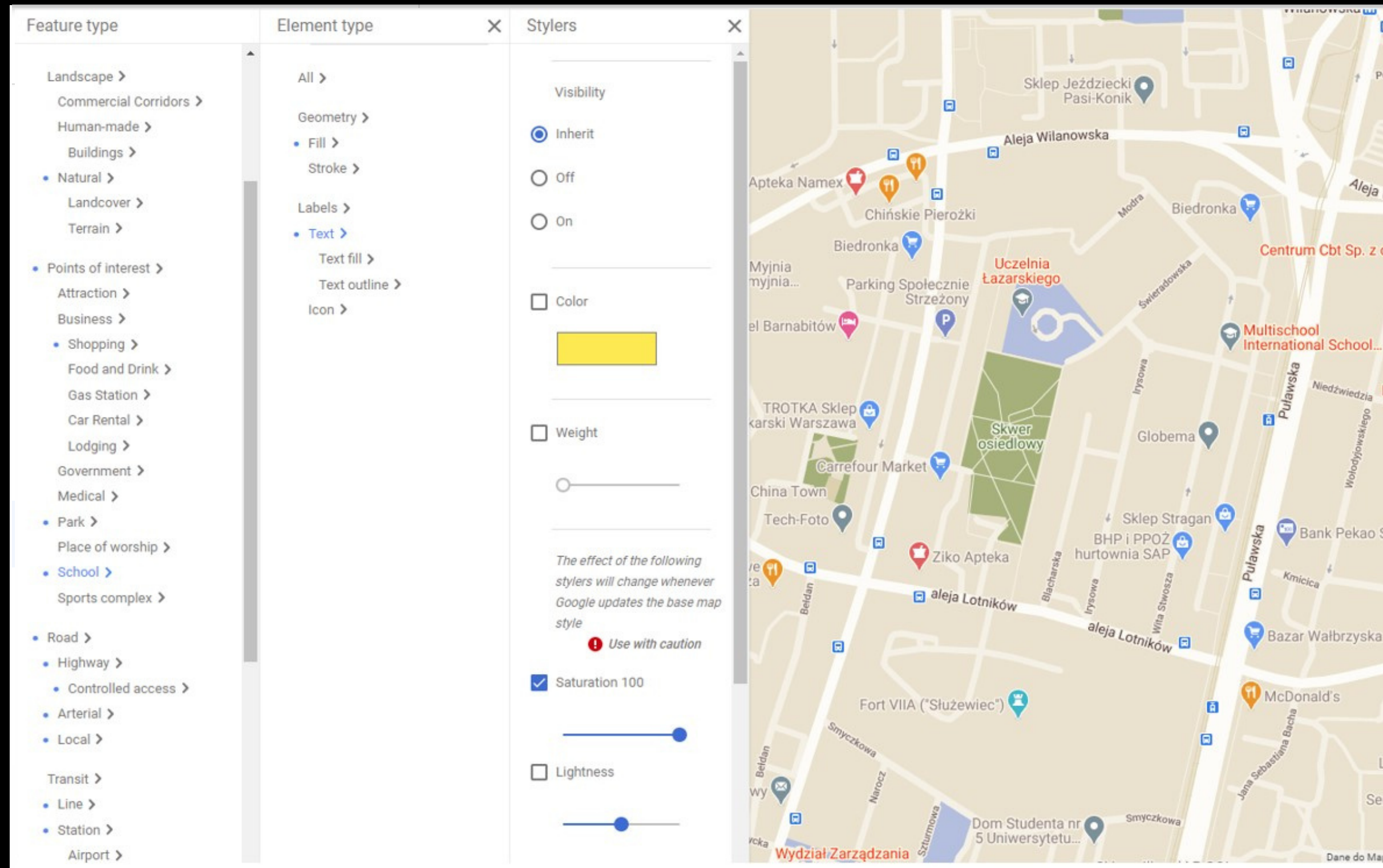


For example, to mark every university on the map in grey color, choose Points of Interest - School - Geometry - Fill and choose the following options:

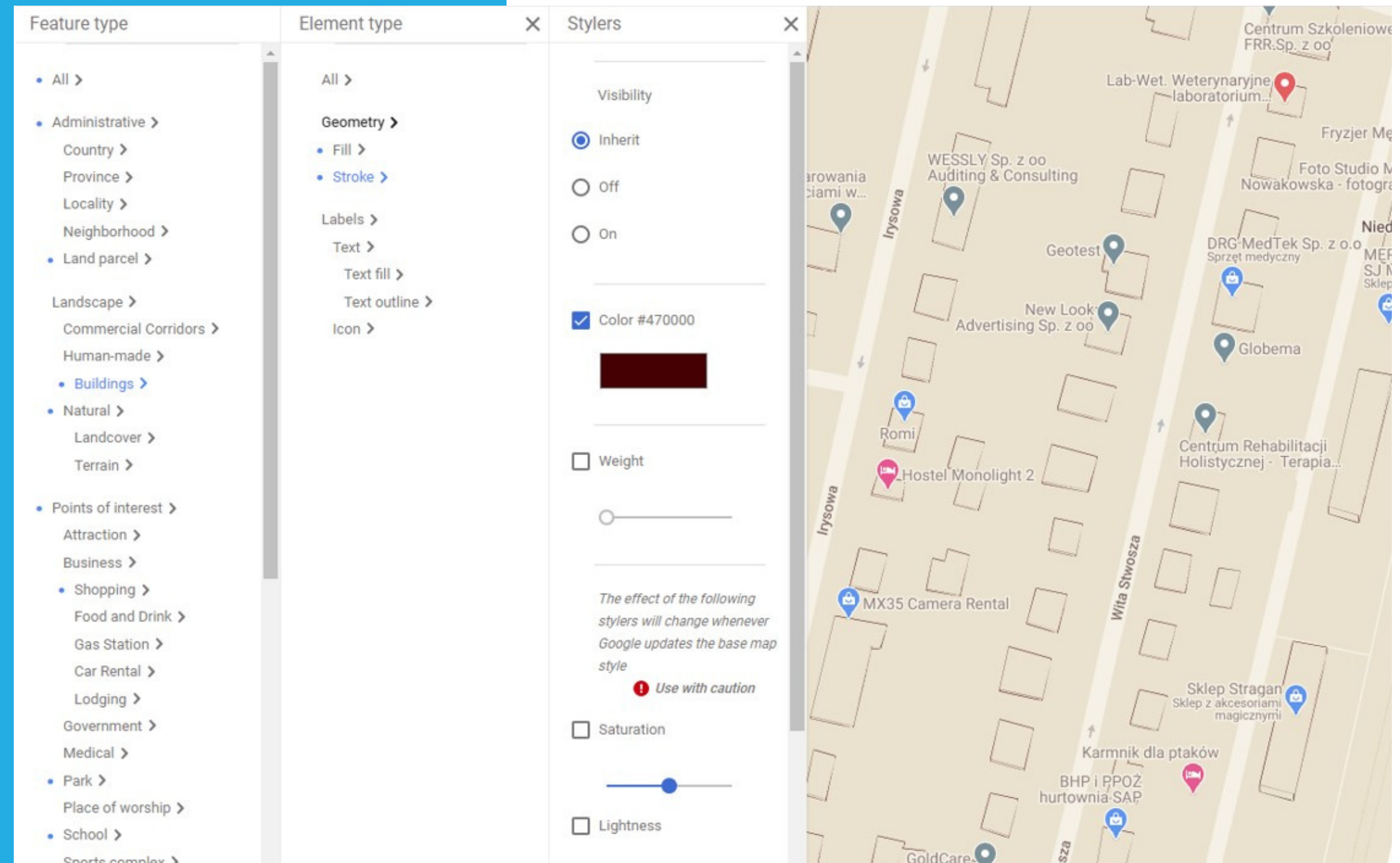




To change the color of university names, click Labels and change Saturation to e.g. 100:



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

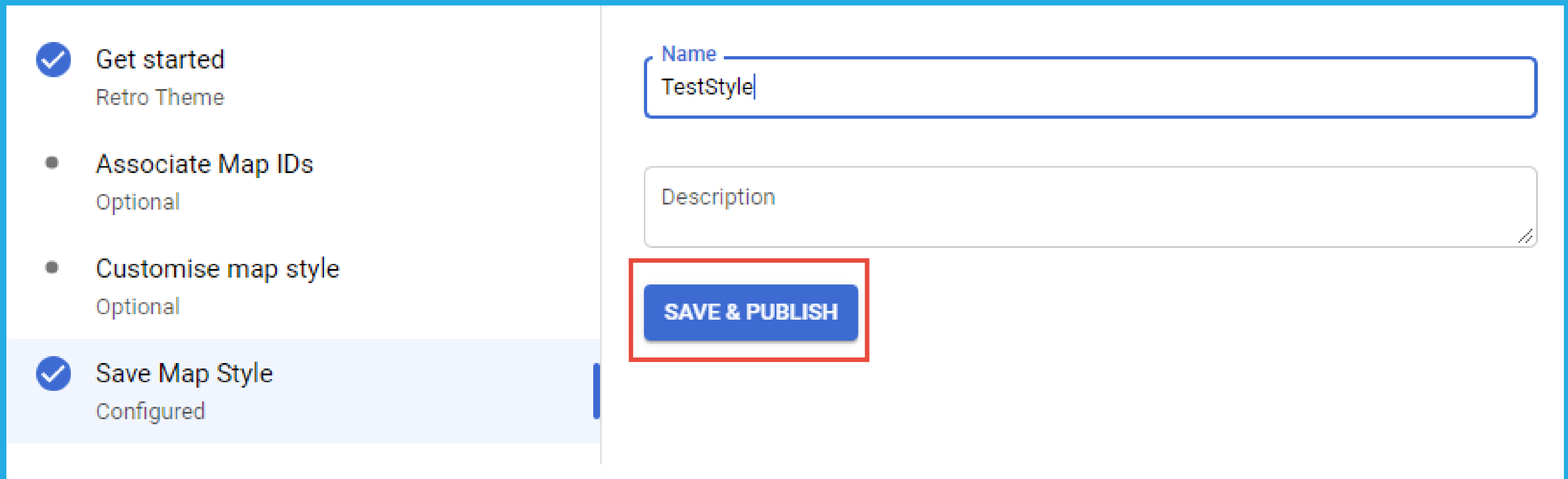


Finally, click **Save** in the upper right corner:





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



The screenshot shows a multi-step process for saving a map style. On the left, a sidebar lists four steps: 'Get started' (Retro Theme), 'Associate Map IDs' (Optional), 'Customise map style' (Optional), and 'Save Map Style' (Configured). The 'Save Map Style' step is highlighted with a blue background and a checkmark icon. The main area on the right contains a 'Name' input field with the text 'TestStyle', a 'Description' input field, and a blue 'SAVE & PUBLISH' button. The button is highlighted with a red rectangular border.

**Get started**  
Retro Theme

● **Associate Map IDs**  
Optional

● **Customise map style**  
Optional

**Save Map Style**  
Configured

Name  
TestStyle

Description

**SAVE & PUBLISH**

# 3

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

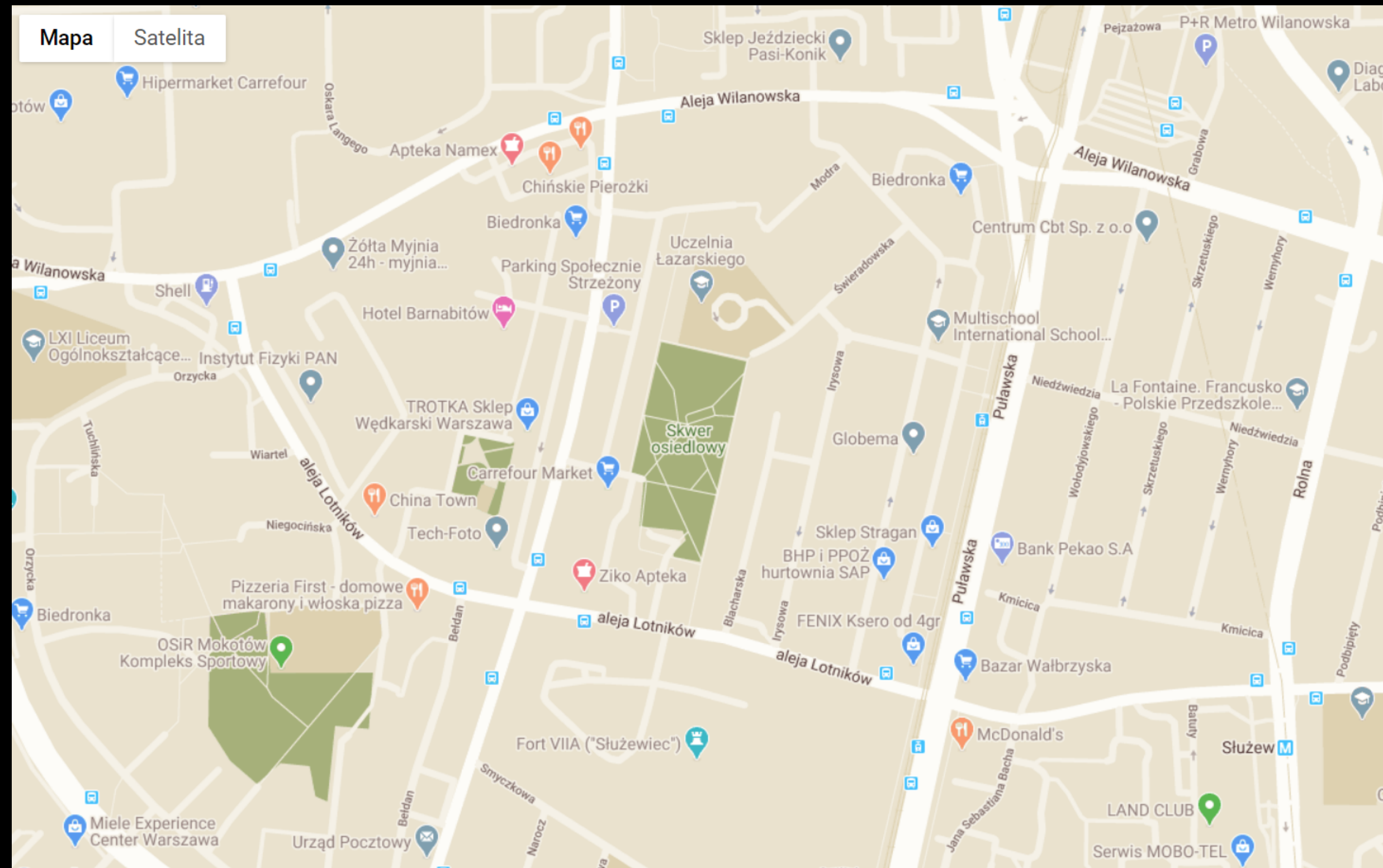
Make sure to choose the beta version (v=beta):

```
<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.

← Map ID Details EDIT DELETE

**TestMap**

Map ID: 999e4eac74f43061

Type: JavaScript - Raster

Description:

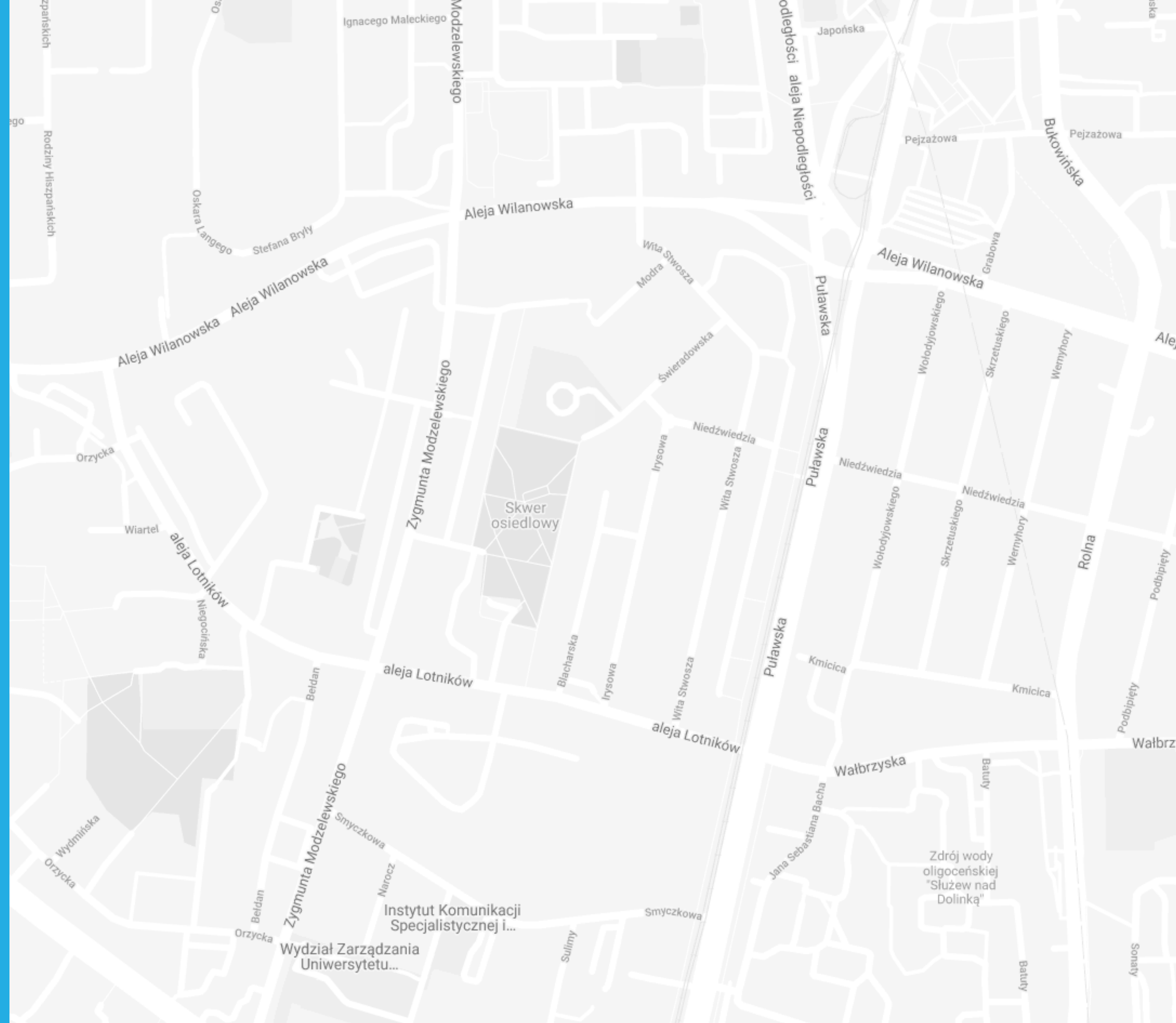
**Map Style associated with this Map ID**

Map Style \*  
silver

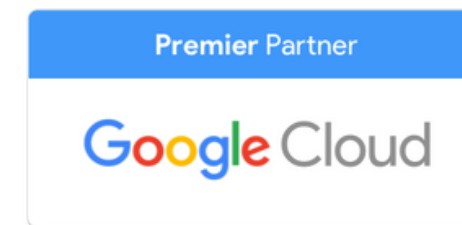
SAVE

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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