

# Quick Google Maps (formerly Quick Google Maps)

Extension Key: cbgooglemaps

Language: en

Keywords: forAdmins, forBeginners

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**see page 3 for update information after changes  
to the GoogleMaps license (July 16, 2018)**

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## Introduction

# ATTENTION:

**Version 4.x supports TYPO3 version 6.x, 7.x and 8.x (9.x not tested yet)**

**Due to the license change for the use of GoogleMaps, especially the obligation to specify a payment form for the developer account, I decided to extend this extension in such a way that maps from other services (OpenStreetMap and MapBox) can now also be used.**

That's why I decided to rename the extension from "Quick Google Maps" to "Quick Maps". So don't be confused.

**API-Key or AccessToken only required for GoogleMaps and MapBox!**

GoogleMaps needs an API-Key:

See: <https://cloud.google.com/maps-platform/> for further information and requesting an api-key

MapBox needs an access token:

See: <https://www.mapbox.com/install/> for further information and requesting an access token

**Quick update from GoogleMaps to OpenStreetMap or MapBox:**

ATTENTION: If you use custom templates for this extension, you have to update them if you want to use another map provider than GoogleMaps

1. install the new version 4.x via extension manager
2. switch to the desired map provider in the constant editor (GoogleMaps, MapBox or OpenStreetMap)
3. In the constant editor, enter the previously requested GoogleMaps API key or MapBox AccessToken.
4. Clear cache (frontend cache & general cache required or clear whole cache in the install tool)
5. Finished

**Please excuse that the documentation is not yet available in the "new" restructuredText format.  
As soon as I find some time I'll take care of it!**

## What does it do?

This "Quick Maps" extension provides the possibility to include individual maps to your frontend in a simple way:

- define the location by given address (street, zip, city and/or country), by coordinates or by manual setting and dragging the google pin

- simple click for retrieving geo coordinates from given address
- check location in preview window, and justify location by manually dragging of the location pin
- define your desired layout by selecting map type, zoom level, controls, width and height
- use various map provider (GoogleMaps, MapBox and OpenStreetMap supported!)

**GoogleMaps and MapBox requires an API-Key or AccessToken!**

## Screenshots

Set a location by inserting an address, coordinates and/or dragging the google pin.

location
display properties

street

zip

city

country

fetch coordinates from above-mentioned address
display current location

latitude

longitude

Backend: define a location

Set the desired layout parameter to the frontend.

location
display properties

description of map and position

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map width, in pixel (only visible to the frontend view!)

460

map height, in pixel (only visible to the frontend view!)

250

map type


hybrid

zoom level

16

navigation controls

default

display current map


Backend: define the desired layout

Final output to the frontend:

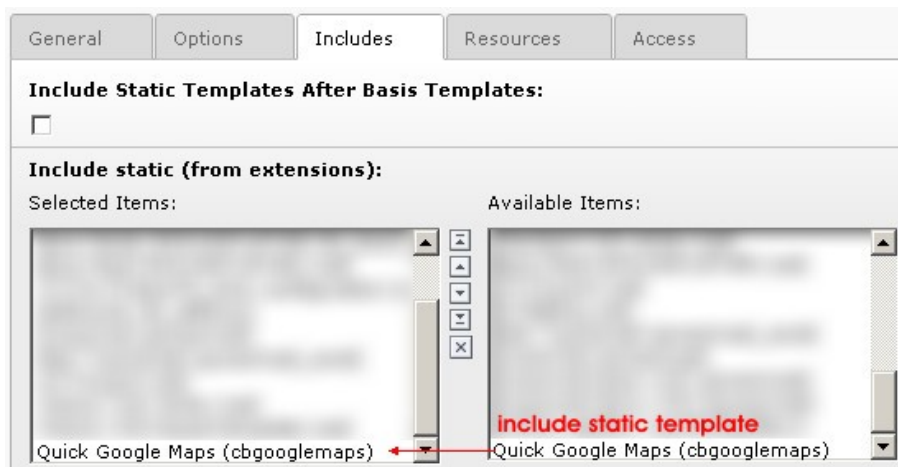


Frontend: view example

# Users manual

## Installation

- This extension requires “extbase” and “fluid”, so it's necessary to install these extensions first!  
(You will find this extensions in the repository)
- Install the extension from the Extension Repository by search for the extension key “cbquickgooglemap”.
- Include the static templates to your Template.
  1. Select the **template** module to the left side in the backend
  2. choose now the **root page** in the page-tree, where the root template is located
  3. click “**Edit the whole template record**” and
  4. select the tab “Includes” and add the “Quick Google Maps (cbgooglemaps)” to the selected Items. (see following Screenshot)



5. after saving this template update you can include maps to your page!

Nothing else is required and since Google API3, no API-Key is required!

## Administration

The administration of this extension is limited to set some default values which will be used, if the editor will not define any value to some required fields.

This configuration values can either be set as constants or by TypoScript (see "Configuration" chapter):

To set initial values by constants,

Choose the **template module**

Navigate to the page which includes the **root-template**

Choose the "**Constant Editor**" in the dropdown box (top of the page)

And select the constant **category** "PLUGIN.TX\_CBGGOOGLEMAPS (x)"

Now you should see six or more constants which can be edited.

| Constant:              | Description  |
|------------------------|--|
| googleapi.uri          | URI to include google javascript api3, should not be edited.<br><br>Default: <a href="http://maps.google.com/maps/api/js?sensor=false">http://maps.google.com/maps/api/js?sensor=false</a>   |
| googleapi.key          | API key for googlemaps, see following url for closer information and getting an api key:<br><a href="https://developers.google.com/maps/documentation/javascript/">https://developers.google.com/maps/documentation/javascript/</a>  |
| options.useScrollwheel | Activate or deactivate the option to zoom in the map by mouse scrollwheel.<br><b>Only available for extension version 3.1.0 or higher</b><br><br>Default: true   |
| display.width          | Set the default width of the map in the frontend view in pixel. Will be used if the editor does not define any value.  |
| display.height         | Set the default height of the map in the frontend view in pixel. Will be used if the editor does not define any value.   |
| display.mapType        | Choose the type of the map between these values: HYBRID, TERRAIN, SATELLITE and ROADMAP  |
| display.zoom           | Zoom level of the map in the frontend view. Must be an positive integer greater or equal to 0. Commonly value between 10 an 20 are used.   |
| display.mapControl     | Choose the type of displayed control elements. Valid values are DEFAULT, SMALL, ZOOM_PAN and ANDROID   |
| display.icon           | Set an individual icon to mark the position in the map. Set the path relative from document root, e.g. "fileadmin/user_uploads/myGooglePin.png". The targeting point resides to the center bottom of the grafic<br><b>Only available for extension version 3.1.0 or higher</b> |
| display.styling        | Specify the path and filename to the google maps styling file which includes the json data to style the map, e.g. "fileadmin/googlemapsStyling.txt"<br><b>Only available for extension version 3.1.0 or higher</b>   |



## Configuration

The configuration can be done by setting constants or by TypeScript. To  
 plugin.tx\_cbgooglemaps.settings.

### Google API definition

| Property:     | Description:   | Default:  |
|---------------|--|---|
| googleapi.uri | URI to include google javascript api3, should not be edited. Should normally not be modified.  | http://maps.google.com/maps/api/js?sensor=false |
| googleapi.key | Google maps API key, see following url for closer information and getting a key<br><a href="https://developers.google.com/maps/documentation/javascript/">https://developers.google.com/maps/documentation/javascript/</a> |   |

### Google map options

| Property:              | Description:  | Default: |
|------------------------|---|----------|
| options.useScrollwheel | Deactivate the support for zooming in google maps by mouse wheel, default: activated.<br>Only available for extension version 3.1.0 or higher | true     |

### Display settings

This values will be used as defaults if the editor entered no value

| Property:                 | Description:   | Default: |
|---------------------------|--|----------|
| Display.width             | Set the default width of the map in the frontend view in pixel. Will be used if the editor does not define any value.  | 480      |
| display.width             | Set the default height of the map in the frontend view in pixel. Will be used if the editor does not define any value.   | 270      |
| display.mapType           | Choose the type of the map between these values: HYBRID, TERRAIN, SATELLITE and ROADMAP  | HYBRID   |
| display.zoom              | Zoom level of the map in the frontend view. Must be an positive integer greater or equal to 0. Commonly value between 10 and 20 are used.  | 12       |
| display.navigationControl | Choose the type of displayed control elements. Valid values are DEFAULT, SMALL, ZOOM_PAN and ANDROID   | DEFAULT  |
| display.icon              | Set an individual icon as marker for the map. Set the path and filename relative to the document root folder, e.g. "fileadmin/user_uploads/myGooglePin.png". The targeting point resides to center bottom of the assigned graphic.<br>Only available for extension version 3.1.0 or higher |          |
| display.mapStyling        | Specify the styling for a googlemap as json string. You can reference to a textfile, e.g. "fileadmin/googlemapsStyling.txt" or by a simple string like "[...json-data...]". The styling will be included to the map.<br>Only available for extension version 3.1.0 or higher               |          |

### Valid parameter definition

You can limit by which mapTypes and navigationControls the editor can choose of.

| <b>Property:</b>        | <b>Description:</b>                 | <b>Default:</b>                  |
|-------------------------|-------------------------------------|----------------------------------|
| valid.mapTypes          | Available valid map Types           | HYBRID,ROADMAP,SATELLITE,TERRAIN |
| valid.navigationControl | Available valid navigation controls | SMALL,DEFAULT,ANDROID,ZOOM_PAN   |

## Use your own template

If you wish to use your own templates, just copy the original templates from extension folder:

=> /typo3conf/ext/cbgooglemaps/Resources/Private/Templates/\*

to a new location you want, e.g.

=> fileadmin/cbgooglemaps

edit the templates and set new template location by typoscript:

```
plugin.tx_cbgooglemaps.view.templateRootPaths.100 = fileadmin/cbgooglemaps/
```

### !!!Attention!!!

Use for TYPO3 Versions below 6.2 "templateRootPath" instead of "templateRootPaths", watch trailing (s) - "templateRootPath" is deprecated.

## Example

Here an example to all possible definitions:

```
plugin.tx_cbgooglemaps {
    settings{
        googleapi {
            uri = http://maps.google.com/maps/api/js
            key = ...
        }
        options{
            useScrollwheel = false
        }
        display{
            width = 480
            height = 270
            mapType = HYBRID
            zoom = 12
            navigationControl = DEFAULT
            icon = fileadmin/user_uploads/myGooglePin.png
            mapStyling = fileadmin/googlemapsStyling.txt
        }
        valid{
            mapTypes = HYBRID,ROADMAP,SATELLITE,TERRAIN
            navigationControl = SMALL,DEFAULT,ANDROID,ZOOM_PAN
        }
    }
}
```

or include map styling by string, e.g. to override default configuration to a single page branch:

```
plugin.tx_cbgooglemaps {
    settings{
        display{
            mapStyling (
                [{"featureType":"landscape", ... many more ... ,{"gamma":1}}]
            )
        }
    }
}
```

```
}  
}
```

## Tutorial: Map by content element

This tutorial will describe how to include a new map to your frontend:

### Set location:

- First create new content element of type “plugin” in the backend.
- In the appearing Flexform define now the location by entering the desired
- Address (1) or
- coordinates
- If inserted address data, please click to the “fetch coordinates from above-mentioned address” to retrieve coordinates from google (2)
- Now click the preview button “display current location” to verify the current location (3)
- If necessary adjust the location by manually editing the coordinates ;- ) or by dragging the google pin to the desired position. (4)

location
display properties

street

zip

city

country

fetch coordinates from above-mentioned address
display current location

latitude

longitude

1. enter address
2. fetch coordinates
3. click for preview
4. adjust position by dragging location pin

## Set frontend layout

After specifying the location you can choose how the map should be displayed. This is optional and can be ignored if the default view should be used.

### Manual layout setting:

- Insert free text, which should be inserted as pin flag. (1)
- Specify the desired width and height in pixel (2)
- Select kind of mapType, how the map should be displayed. The following types are available:

#### HYBRID



#### ROADMAP



#### SATELLITE



#### TERRAIN



- Define the desired zoom level. (Typical used values between 12 and 18)
- Select the desired controls, you can choose between: DEFAULT, SMALL, ZOOM\_PAN and SMALL ANDROID like. See following Screenshot:

#### DEFAULT & SMALL controls



#### SMALL ANDROID controls



#### BIGGER controls



location
display properties

description of map and position

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1. set info to the pin

map width, in pixel (only visible to the frontend view!)

460

2. specify the width and height to the map

map height, in pixel (only visible to the frontend view!)

250

map type

hybrid

3. set map type

zoom level

16

4. zoom level

navigation controls

default

6. desired controls

display current map
7. check map preview

That's all, after saving your map inputs, the google map will be displayed to your frontend after saving this content element.



# Tutorial 2: Map by Fluid configuration

In the following I'll explain how to include a google map by fluid and typoscript:

## TypoScript object:

Add the following typoscript configuration anywhere want or at least at the page you want to include a map:

```
lib.mapByFluid = USER_INT
lib.mapByFluid{
    userFunc = TYPO3\CMS\Extbase\Core\Bootstrap->run
    vendorName = Brinkert
    extensionName = Cbgooglemaps
    pluginName = Quickgooglemap
    controller = Map
    action = index

    settings =< plugin.tx_cbgooglemaps.settings
}
```

## Fluid usage:

Add the following fluid snippet to include a google map, the parameters will be transferred to map settings in the data attribute:

```
<f:cObject typoscriptObjectPath="lib.mapByFluid" data="{latitude:52.51859, longitude:13.374645, mapType:'ROADMAP'}" />
```

It's also possible to set the other settings by data attribute. You can use the following properties:

| Property:         | Description:  | Default: |
|-------------------|---|----------|
| width             | Set the width of the map in the frontend view in pixel. Will be used if the editor does not define any value. If no value was given the map will be extended to 100% for resonsive behavior   |          |
| height            | Set the height of the map in the frontend view in pixel. Will be used if the editor does not define any value.  |          |
| infoText          | Text for the info text box associated to the pin  |          |
| infoTextOpen      | Decide if the textbox should be opend at start  |          |
| navigationControl | Choose the type of displayed control elements. Valid values are DEFAULT, SMALL, ZOOM_PAN and ANDROID  |          |
| zoom              | Zoom level of the map in the frontend view. Must be an positive integer greater or equal to 0. Commonly value between 10 an 20 are used.  |          |
| mapType           | Choose the type of map type, f.e. ROADMAP, HYBRID, SATELITE   |          |
| icon              | Set an individual icon as marker for the map. Set the path and filename relative to the document root folder, e.g. "fileadmin/user_uploads/myGooglePin.png". The targeting point resides to center bottom of the assigned grafic.<br>Only available for extension version 3.1.0 or higher |          |
| mapStyling        | Specify the styling for a googlemap as json string. You can reference to a textfile, e.g. "fileadmin/googlemapsStyling.txt" or by a simple string like "[...json-data...]". The styling will be included to the map.  |          |

| Property: | Description:   | Default: |
|-----------|--|----------|
|           | Only available for extension version 3.1.0 or higher |          |



## ***Tutorial 3: Map by typoscript configuration***

In the following I'll explain how to include a google map by typoscript:

### ***TypoScript object:***

Add the following typoscript configuration anywhere want or at least at the page you want to include a map:

```
lib.mapByTs = USER_INT
lib.mapByTs {
    userFunc = TYPO3\CMS\Extbase\Core\Bootstrap->run
    vendorName = Brinkert
    extensionName = Cbgooglemaps
    pluginName = Quickgooglemap
    controller = Map
    action = index

    settings =< plugin.tx_cbgooglemaps.settings
    settings{

        display.width = 800
        display.height = 450
        display.mapType = HYBRID
        display.zoom = 10

        latitude = 48.1959245
        longitude = 16.4037389

        infoText = So long and thanx for the fish.
        InfoTextOpen = true
    }
}
```

## ***Known problems***

- Currently no problems known,  
=> but feel free to search for :-)

## ***To-Do list***

- Nothing yet

## ChangeLog

| Version     | Changes:   |
|-------------|--|
| 1.0.0       | Frst TER release   |
| ...         |  |
| 2.0.6       | Bug-Fix: Transferred JS-Files from EXT:/Resources/Private to EXT:/Resources/Public-Folder<br>(THX to Alexander.Kai Ude for your hint!)                               |
| ...         |  |
| 3.0.0       | Compatibility Update to TYPO3 6.0 – 6.2<br>Previous TYPO3 versions are only supported in the 2.x version tree!   |
| 3.1.0       | Compatibility Update to TYPO3 7.0<br>Extended configuration to deactivate mousewheel zooming and set individual goole marker pins and individual google maps styling |
| 3.2.0       | Added support for map inclusion by fluid und typoscript  |
| 3.2.1-3.2.3 | Some small bug fixes and integration of api key configuration  |