

Quick Google Maps

Extension Key: cbgooglemaps

Language: en

Keywords: forAdmins, forBeginners

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Introduction

What does it do?

This "Quick Google 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
- based on Google API 3, therefore no API-Key is required!

ATTENTION:

Version 2.x supports TYP03 versions up to 6.1.x

Version 3.x only supports TYP03 version 6.x and higher

(Between version 2 and 3 there are only a few functional differences which will be marked in the following documentation)

ATTENTION II:

It could be mandatory that you have to define an API-Key from Google for the maps, please request a "Google Maps Javascript API Key" from "<https://console.developers.google.com>" and define this key to the typo3 constants.

An API-Key is mandatory if more than 2.500 maps requests per day will be done, if no api key is defined the amount of 2.500 request will be assigned to your server IP!

Screenshots

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

Backend: define a location

location

display properties

street

Platz der Republik 1

zip

11011

city


Berlin

country

Deutschland

fetch coordinates from above-mentioned address

display current location



Karte Satellit

latitude

52.51972021157498

longitude

13.383214504290777

Set the desired layout parameter to the frontend.

Backend: define the desired layout

location
display properties

description of map and position

Deutscher Bundestag
Platz der Republik 1
11011 Berlin

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


Final output to the frontend:

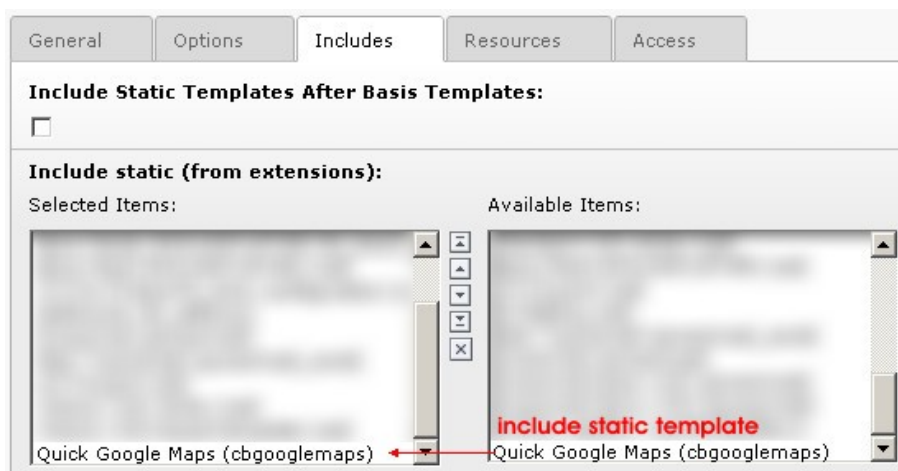


Frontend: view example

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. Default: http://maps.google.com/maps/api/js?sensor=false
googleapi.key	API key for googlemaps, see following url for closer information and getting an api key: https://developers.google.com/maps/documentation/javascript/
options.useScrollwheel	Activate or deactivate the option to zoom in the map by mouse scrollwheel. Only available for extension version 3.1.0 or higher 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 and 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 graphic Only available for extension version 3.1.0 or higher
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" Only available for extension version 3.1.0 or higher

Configuration

The configuration can be done by setting constants or by TypoScript. 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 https://developers.google.com/maps/documentation/javascript/	

Google map options

Property:	Description:	Default:
options.useScrollwheel	Deactivate the support for zooming in google maps by mouse wheel, default: activated. 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. 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. 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.

Property:	Description:	Default:
valid.mapTypes	Available valid map Types	HYBRID,ROADMAP,SATELLITE,TERRAIN

Property:	Description:	Default:
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 TYP03 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

Platz der Republik 1

zip

11011

city

Berlin

country

Deutschland

fetch coordinates from above-mentioned address

display current location

Karte

Satellit

latitude

52.51972021157498

longitude

13.383214504290777

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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11011 Berlin

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. 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. 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 (THX to Alexander.Kai Ude for your hint!)
...	
3.0.0	Compatibility Update to TYPO3 6.0 – 6.2 Previous TYPO3 versions are only supported in the 2.x version tree!
3.1.0	Compatibility Update to TYPO3 7.0 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