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# Offline-karttojen tutoriaali

## Johdanto

c:geo tukee [Openstreetmap](#)-pohjaisia offline-tilassa käytettäviä vektorikarttatiedostoja, jotka käyttävät [mapsforge](#)-muotoa.

Offline-kartan käyttö c:geossa yhdessä tallennettujen kätköjen kanssa antaa mahdollisuuden käyttää c:geota täysin offline-tilassa (silloin kun et halua tai voi käyttää mobiilidatayhteyttä).

Offlinekarttatiedostojen lisäksi c:geo tukee myös niihin liittyviä karttateemoja. Käytettäessä karttateemoja yhdessä offlinekarttojen kanssa, voit muokata tarpeesi mukaan karttanäkymää (esim. korkeuskäyrät, vaellusreittien merkinnät ja paljon muuta). Jotkut offline-kartat jopa vaativat yhteensopivan karttateematiedoston asennettuna, jotta kartat näkyvät oikein.

Tämä tutoriaali selittää kuinka ladata, asentaa ja konfiguroida kyseiset offline-kartat ja niiden teemat.

## Karttojen/teemojen lataus

Ennen kaikkea sinun tulee ladata tarvittavan alueen kattava offlinekarttatiedosto. Useita palveluita on saatavilla internetissä. Monet palvelut tarjoavat usein päivitettyt ja käyttövalmiit kartat.

Seuraavat taulukot tarjoavat yleiskatsauksen joistakin yhteensopivista karttatiedostojen lähteistä, josta voit ladata offline-karttasi:

Nimi	Kattavuus	Selite	Yhteensopivuus	Hinnoittelu
<a href="#">Mapsforge-karttakirjasto</a>	Maailma	Tämä serveri tarjoaa maailmanlaajuiset etukäteen rakennetut kartat ja mielenkiintoiset paikat. Kartat on generoitu Mapsforge-kirjoittajan osien uusimmalla versiolla.  <i>Käytäthän heidän peilipalvelinta karttojesi lataukseen.</i>	Kartat hakemistoissa V4 ja V5 ovat yhteensopivia c:geon kanssa. V3-karttoja voidaan käyttää jos aktivoit <a href="#">asetuksista</a> päälle asetuksen "Vanha Mapsforge V3", mutta emme suosittele enää käyttämään tätä versiota. Kustomoituja teematiedostoja ei ole tarjolla, karttatiedostot toimivat parhaiten kun käytetään c:geon oletusteemaa.	Ilmainen

Nimi	Kattavuus	Selite	Yhteensopivuus	Hinnoittelu
<a href="#">OpenAndroMaps</a>	World	OpenAndroMaps offers downloadable vector maps for smartphones for free	Use the "Multilingual V4-map" link to download the compatible version of the map. We recommended to use these maps together with the matching OpenAndroMaps map theme "Elevate4" which can also be downloaded on their website.	Free to use, Donation appreciated
<a href="#">Freizeitkarte OSM</a>	Europe	Map files for Garmin devices and android smartphones.	Very detailed maps, but requires the corresponding theme (also available for download on their website) to have a correct view.	Free to use, Donation appreciated

The table above does only provide some examples of map providers, there are more of them out there.

## Installation

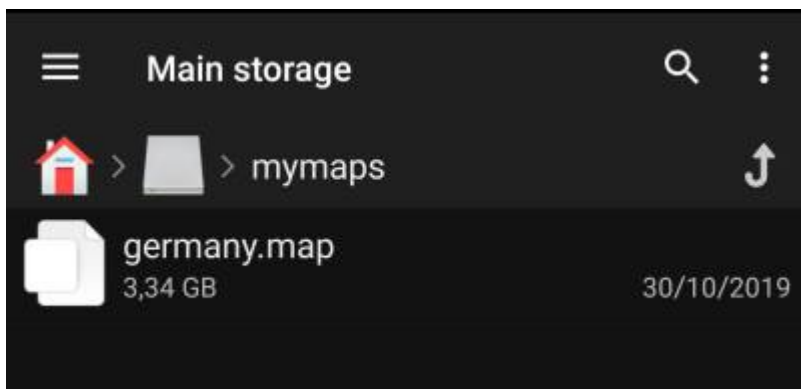


Users reported, that some (vendor) tools used to transfer files between PC and smartphone might corrupt or alter the files during transfer. Therefore we recommend to download all files directly onto your smartphone and use a good file explorer on the device to decompress/copy/move the files as described below.

## Map files

The downloaded offline map file needs to be stored onto your device in a folder of your choice. If the downloaded file is compressed (\*.zip) you need to decompress it first. The correct file extension of the map file is \*.map (e.g. germany.map).

If you want to install several map files for usage with c:geo, you should store all of them into the same folder. As c:geo is later on configured to search for maps in a specific folder, all of them will be selectable in c:geo.



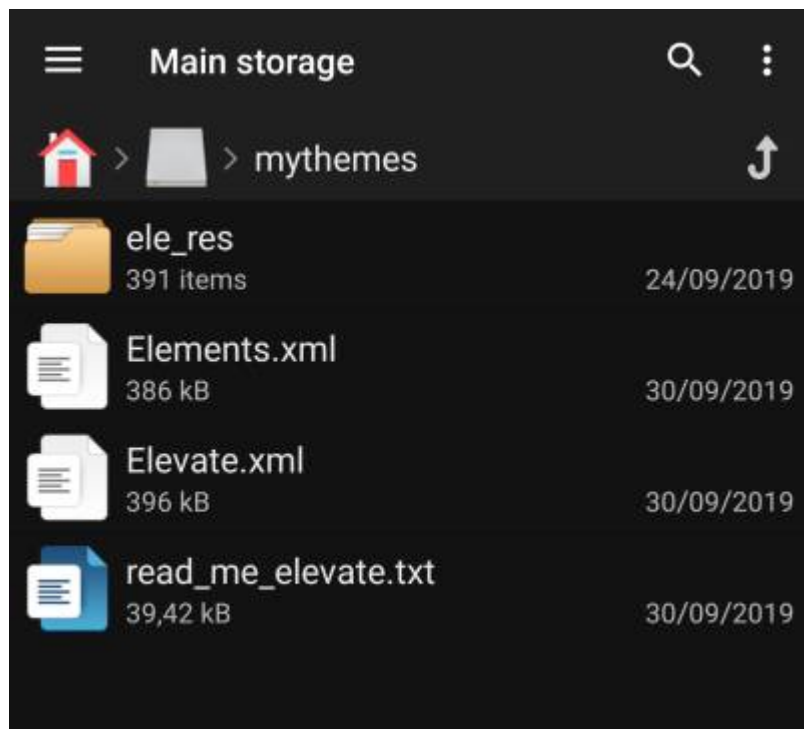
For this tutorial, let us assume you stored the map file(s) to /sdcard/mymaps.

## Themes

If you (optionally) also downloaded a theme file for your offline map, you need to store it onto your device in addition to the map files.

Typically the downloaded theme is compressed (\*.zip) and needs to be extracted before it can be used by c:geo. The compressed file usually contains some folders and a lot of small files. Please make sure you keep this structure untouched when decompressing the file.

All of the resulting folders and files need to be stored below a folder of your choice on your device.



For this tutorial, let us assume you stored the theme(s) to /sdcard/mythemes.

## Configuration

Once you finished storing the map files (and optionally themes) onto your device, you need to configure c:geo to use the correct directories for finding the maps/themes.

You will find the corresponding settings in c:geo Menu → Settings → Map. A detailed description of this setting menu can be found [here](#).

At the beginning the related settings will be empty:




In this menu you need to select the directory, where you have stored the map files (and themes) in the previous step of this tutorial. Sticking to our example above you need to configure the following directories here:

Menu item	Setting
Directory with offline maps	/sdcard/mymaps
Map Themes Directory	/sdcard/mythemes

To select these folders simply click on the related menu item. c:geo will then automatically scan your folders trying to find the map files and offer the corresponding directory to be selected. If the list already contains the correct directory you can directly select it, if your map/theme directory is not listed you have to click the Choose directory button at the top to manually select/enter the directory.



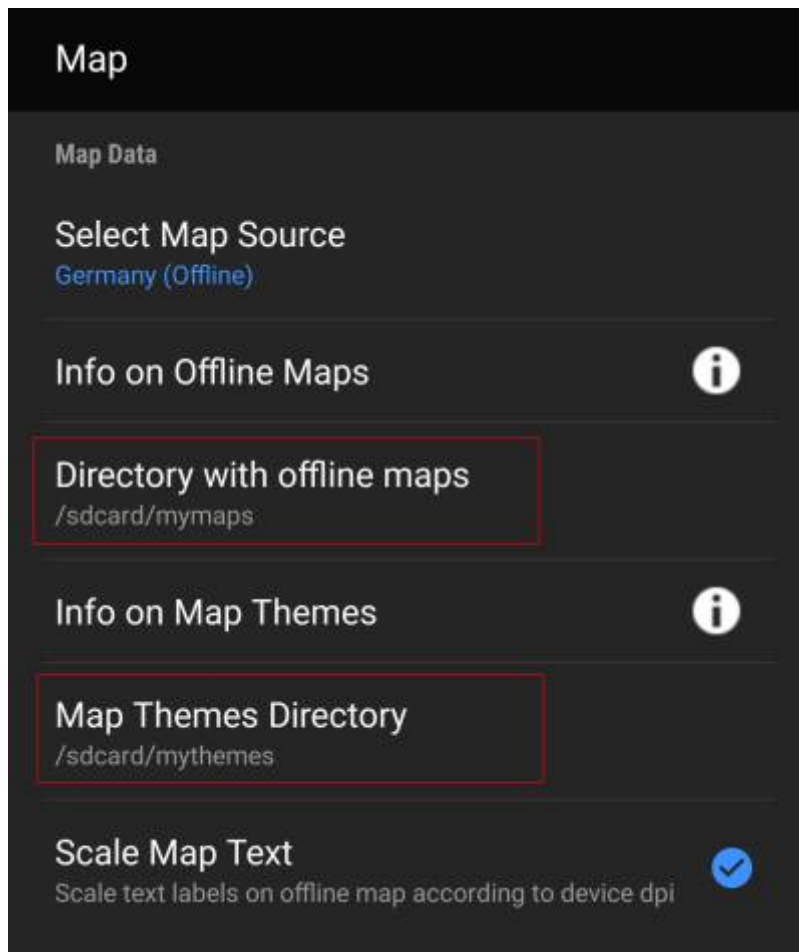
 On some devices finding the right folder might be frustrating, as the same folder is mounted under different paths at the same time, whereas the visibility of these paths might be different from app to app. A typical example is, that `/sdcard/mymaps` might instead be shown as `/storage/emulated/0/mymaps` or something like `/storage/1234-5678/mymaps`. Due to the many different implementations depending on vendor, model, Android version and device configuration, we can't give a generic information, but you have to find the correct path on your device.

If you select Choose Directory some file explorer (appearance differs depending on Android version and installed third-party tools) will be opened, where you can browse your folders and choose the correct directory.

The following pictures show two different typical file explorers and visualize the steps needed to browse and select your map folder according to our example. For setting up the theme folder the steps are identical, but you need to select the themes folder instead.



Staying in our example the directory configuration should be shown look like this in the menu at the end:



Now you are ready to use your map files (and themes) with c:geo.

## Usage



After adding new maps/themes to the configured directories a restart of c:geo is needed to recognize the added files.

### Using the map file

If you correctly configured the directories, c:geo will now show all available offline map files in the map selection menu on your (live) map and in c:geo Menu → Settings → Map.



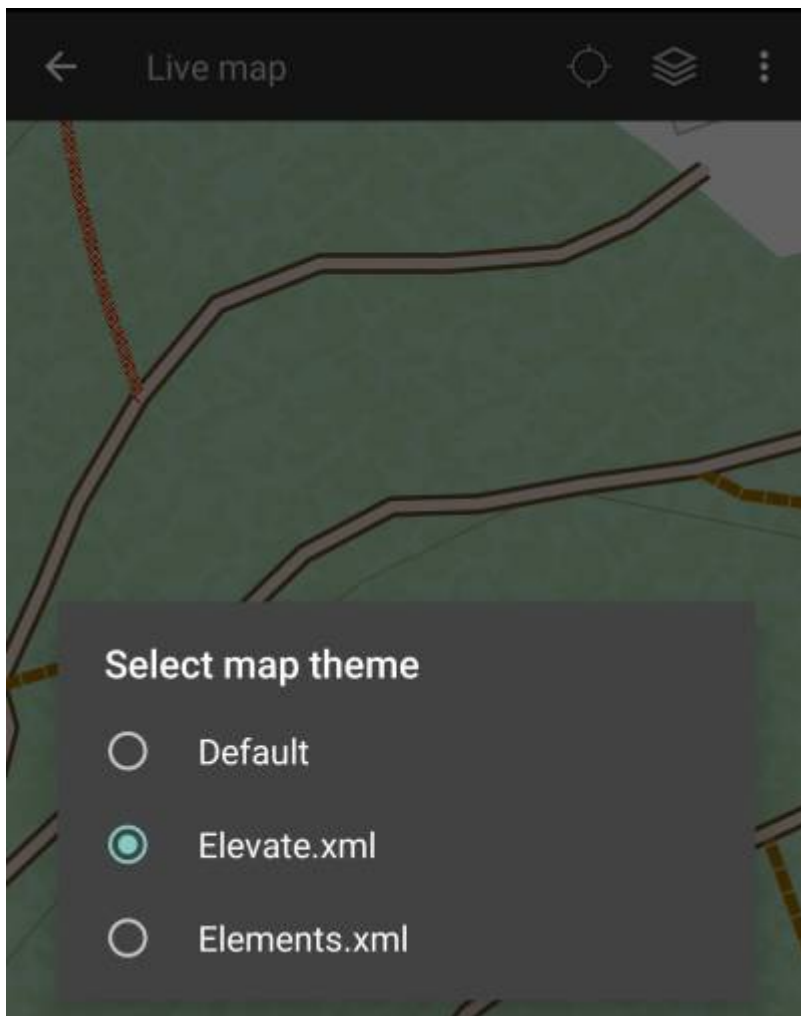


Once selected c:geo will continuously use this map file to render your map instead of using the online maps.

### Using the theme

After selecting the offline map file to be used, you can assign the theme, which shall be used to render the map.

This can be done in the menu of the (live) map using the menu option `Select map theme`. If you installed a theme alongside with your offline map, please make sure you select the corresponding theme here.



## Advanced theme options

If you installed a theme, you can adjust and configure the visibility of certain map elements according to your need. You can find the related option in the (live) map menu under Theme Options.



Here you can select a basic map style (e.g. Hiking, Cycling, Car) and customize it afterwards by enabling/disabling additional elements of the map.



## Further reading on offline maps

Link to some guides and tutorials made by c:geo users

Link	Language	Description
<a href="#">Saarfuchs Blog</a>	German	Tutorial about c:geo and offline usage