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# 安装与更新方式

## 安装资源


安装c:geo的方式有很多种，如下表所示：

资源	详情
Google Play	这是安装和更新c:geo最简单的方式，您还可以定期收到最新版本的更新推送。如果您有Google账号并可以在设备上使用Google Play应用，建议使用这种方式安装和更新c:geo。
APK文件	如果您无法使用Google Play（并且有直接安装应用的经验），可以从我们的Github仓库上下载c:geo最新版本的APK文件。 <div> 请注意，在这种情况下，您将不会收到Google Play的更新推送。但是，如果您的版本已经过时c:geo主页会显示 <b>notification</b>，您需要手动下载新的APK文件来更新。</div>
FDroid仓库	这个选项适用于想要基于FDroid构建自己的版本并且知道自己在做什么的进阶用户。

## 权限


在安装过程中或首次启动应用程序时（取决于Android版本），您将被告知并需要同意c:geo需要在您的设备上获得以下权限：

Permission	Explanation
Location	Of course c:geo needs access to the GPS on your device to locate your position and calculate distance and direction to geocaches.
Photos/Media/Files	c:geo will write data onto your phone storage or SD card as soon as you save geocaches for offline use. Furthermore c:geo will use your phone storage for import and export of files and reading of offline maps. In case you attach a photo to a log, c:geo needs to use your device camera.

 Make sure to grant these permissions as otherwise c:geo will not work as expected!

## Update

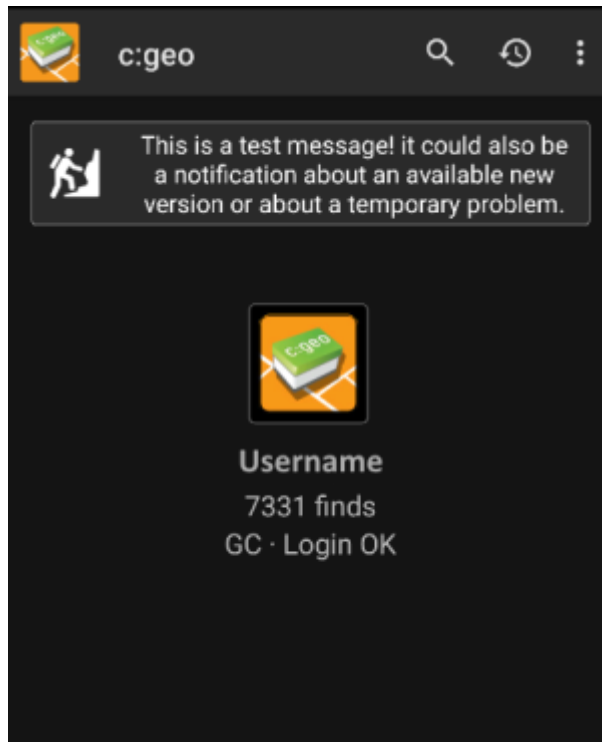
From time to time we will release an updated version of c:geo.

 We recommend that you update your installation as soon as possible if a new release is available, as older versions might no longer work as expected (e.g. in case of an urgent bugfix or a server-side change).

If you installed c:geo from Google Play you will receive an update notification from the Google Play app, as soon as a new version is available. You can simply follow that notification or open c:geo in the Google Play app to

update your c:geo installation.

Additionally c:geo uses a notification system to make you aware of new versions or temporary problems. You might then see a message like this on your c:geo main screen:



You can tap on the message to get more information (optionally available in case of temporary problems) or be taken to Google Play for updating your installation (in case of an update notification).

## Beta version

If a new version is considered to be ready to be released (a so called "Release candidate"), we might in a first step make it available as beta version to get user feedback and be able to find bugs or problems we did not yet see during the development.



Usually these beta versions are stable, still there is a small possibility that not all functions work as expected. However we encourage you to use them, as this really helps us a lot!

The beta versions are also distributed over Google Play and work seamlessly together with updating from and to our release versions automatically. All you need to do is enable beta testing for c:geo on Google Play by following this link:

[Become beta tester for c:geo!](#)

After you activated the beta testing, you will receive beta versions alongside with the official versions via Google Play. This means, that you will still receive all official versions but also additionally receive an update if a newer beta version is available. Furthermore you can as a beta tester send us your feedback and problem reports via a dedicated Google Play feedback form.

While you are subscribed to the beta testing Google Play (for some reason) always shows c:geo (Beta) in the store entry, also while we currently might not even have an active beta version but you are on the official

release version. If you look into [About c:geo](#) you can check if you are currently using a beta version: If there is a suffix -RC in the version number, it is a beta version.

If you wish to discontinue beta testing just use the link above and deselect the beta testing mode. Afterwards you might need to uninstall the beta version from your device and reinstall the normal version from Google Play.

## Development version

Check the [development section of our homepage](#) to learn more about development versions and our so called nightly builds.