

Download the Maps App

CartoType Documentation

Learn more about
CartoType.

Download the Maps App

buy a license. You will be able to create a test application and find out whether CartoType is the right solution for you. The evaluation SDKs have a few restrictions, including placing a watermark on every map, but provide access to the complete API (application programming interface) and all features **including graphics-**

- - - - -

Download the Maps App

contact us.

By clicking on any of the links on this page, or by using the SDK material or demonstration programs, or source code, however acquired, you accept the terms of the [CartoType Evaluation License](#) and you also accept that neither CartoType Ltd, nor any owners,

Download the Maps App

downloading, installing or using the SDK, or by any programs built using the SDK, and that the SDK is not warranted fit for any particular use and is for evaluation use only and may not be used for any commercial purpose.

To uninstall any of these SDKs, all you need to do is delete the files from your computer.

Download the Maps App

southern coast of England, chosen because of its good mix of features: urban, rural, and coastal. Please contact us if you need a map of any particular area for evaluation purposes.

Sample Code

The source code for most of

Download the Maps App

/CartoType-Public. The code is supplied under the permissive MIT license.

Release notes

The current version of the CartoType SDK is **release 8.4**. It was released on 20th February 2023.

The current build is 0.4.2.4

Download the Maps App

added missing feature types to all APIs

fixed #116: setResolutionDpi doesn't work on Android

it is now possible to create a Framework object without specifying a font: a small built-in font is used

fixed #120: new route is not automatically displayed after re-routing when off route

distance off route tolerance

Download the Maps App

fixed #127: cannot wrap label
on to two lines

fixed #128: cannot place label
under icon

fixed incorrect deserialisation
of large 32-bit integers

--- 8.4.28 ---

fixed #133: first turn is nil in
iOS

fixed #131: found-object
polygons are not completely

Download the Maps App

The Android SDK

The Android SDK allows you to use CartoType with the Android operating system. You use the **CartoType Android API**, which gives you access to all the features of CartoType: loading maps, adding your own objects to the map, panning, zooming,

Download the Maps App

the following folders:

libs: an .AAR (Android archive) called cartotype.aar, which is the CartoType library. Add it to your Android Studio project as a dependency.

font: standard fonts; for simple CartoType use you need load only DejaVuSans.ttf

Download the Maps App

doc. licenses and
acknowledgments for third-
party libraries

Android demo program
with source code

CartoTypeMaps is a full-
featured sample program for
CartoType on Android. It's
provided as an Android Studio

.

Download the Maps App

mode. You can set the start or end of a route using a long press. Other features are available from the menus.

CartoTypeMaps is ready to run. Just download the code or use git to clone the repository (git clone <https://github.com/CartoType/CartoType-Public.git>). Then load the project src/demo /android demo/CartoTypeMaps

Download the Maps App

version: [CartoTypeMaps](#) as an [APK file](#) (235Mb download). You can install it on your Android phone or tablet. It comes with a map of London and the surrounding area. You can easily load other maps if you prefer.

The iOS SDK

Download the Maps App

in Objective C, which gives you access to all functionality.

Note: in order to avoid linker errors when using the -ObjC flag, you need to have at least one ".cpp" (C++) or ".mm" (Objective C++) source file in your own project, even if it's an empty one. If your project has ".m" (Objective C) and ".h" files only you will get linker errors

Download the Maps App

...containing the resources, images and compiled libraries for the simulator and device targets as a zip file. A sample map, style sheets, fonts, and tools including makemap, the map building program, are also included. It contains SDKs for both iOS on a device and and iOS on a simulator. The SDKs are in the **ios** folder and are delivered as **.xcframework**

Download the Maps App

make sure that they are shipped with the app: select your app in Xcode, then select your build under TARGETS, then Build Phases -> Embed Frameworks, then add both CartoType.xcframework and MetalANGLE.xcframework, and tick 'Code Sign On Copy'.

(If you are upgrading to a new version of the CartoType iOS

Download the Maps App

select your project, then click on 'delete' opposite 'derived data'. Then close Xcode, reopen your project, clean it and rebuild. Thanks to TigerCoding for [this tip from StackOverflow.](#))

iOS demo program with
source code

Download the Maps App

different profiles, turn by turn navigation, finding placenames and addresses, night mode, and perspective mode. You can set the start or end of a route using a long press. Other features are available from toolbar buttons.

iOS sample project

To build and run the app open

Download the Maps App

license() function in AppDelegate.swift so that it supplies your license key. You will need to sign the app using your Apple developer certificate.

You can then run it in the simulator or on an iOS device.

The C# (.NET) SDK

Download the Maps App

using CartoType in just a few lines of code, as shown in the C# demo program included with the SDK. The .NET SDK ([documented here](#)) gives you access to all CartoType features, including map, style sheet and font loading, route calculation, navigation and address searching. It also gives access to graphics acceleration using OpenGL ES 2.0.

Download the Maps App

that uses the CartoType DLL, with its source code and data files. An XML documentation file is also supplied. As long as it is kept in the same place as the DLL it will provide tool-tip help for some of the functions.

Note: if you have trouble adding the DLL to your project, in particular if you get a message starting "could not

Download the Maps App

'This file came from another computer and might be blocked to help protect this computer', click 'Unblock' to the right of that text; **(ii)** if that doesn't work try installing, or re-installing, the Visual C++ Redistributable for Visual Studio 2019 (please google that phrase to find the current download link).

Download the Maps App



The zip file creates a single directory called CartoTypeDemo when unzipped.

Useful locations

The CartoType .NET DLL

- release version:
CartoTypeDemo\windows

Download the Maps App

project files:

- CartoTypeDemo\windows
 \CartoTypeDemo.sln
- CartoTypeDemo\windows
 \CartoTypeDemo.csproj

Data files

- sample map:
 map\isle_of_wight.ctm1
- standard style sheet:

Download the Maps App

They need to be accessible to any application using the CartoType .NET SDK.

Another style sheet and extra fonts are also to be found in the style and font folders. It's always a good idea to load DroidSansFallback as well as any other fonts, because it provides characters for many

.

Download the Maps App

The Windows SDK

This SDK ([documented here](#)) supports CartoType development for desktop versions of Windows from Windows XP through Windows 8.

The CartoType Windows SDK supports development using standard Windows, or using

Download the Maps App

release mode binaries for desktop Windows, built using Microsoft Visual Studio 2019 for the x64 platform.

The zip file creates a single directory called CartoType when unzipped.

Useful locations

Libraries and executables

Download the Maps App

```
(makeMap, mapInfo,  
encrypt_file): CartoType\bin  
\17.0\x64\Release
```

There are also directories with the same names but with DLL appended: CartoType\bin\17.0\x64\ReleaseDLL, etc.

They contain libraries linked to the C++ runtime library as a DLL, not statically. These libraries can be used with Qt.

Download the Maps App

Qt to build and run the sample Maps App.

Headers

- CartoType\src\main\base;
you need include only one header file, cartotype.h, to use the CartoType C++ API

Visual Studio solution and project files for the demonstration program

Download the Maps App

- `\isle_of_wight.ctm1`
- standard style sheet:
`CartoType\style`
`\standard.ctstyle`
- standard font: `CartoType\font`
`\DejaVuSans.ttf`

Another style sheet and extra fonts are also to be found in the style and font folders.

The Linux SDK

Download the Maps App

developments using various GUI frameworks including [Qt](#).

Download link: [Linux SDK](#)

This is a 20Mb zip file containing a folder called **cartotype-linux-sdk**, which contains the following folders:

bin: the release-mode evaluation CartoType library

Download the Maps App

and other libraries needed for Qt builds.

font: standard fonts; for simple CartoType use you need load only DejaVuSans.ttf

header: the C++ header files; you need to include only header file, cartotype.h, to use CartoType

Download the Maps App

Linux SDK notes

- The CartoType Linux library is built for 64-bit Intel platforms.
- You may need to add the option `-lpthread` to the linker options, otherwise you might get a linker error for `pthread_create`.
- Set the compiler option `-std=c++14` because

Download the Maps App

you are using GCC 4.9 or earlier.

Demos

CartoType
demonstration
applications

Download the Maps App

By using the CartoType demonstration programs, maps or style sheets, however acquired, you accept the terms of the [CartoType Evaluation License](#) and you also accept that neither CartoType Ltd, nor any owners, shareholders or officers of CartoType Ltd, or any other contributors to, authors of or maintainers of

Download the Maps App

demonstration programs, maps or style sheets are not warranted fit for any particular use and are for evaluation use only and may not be used for any commercial purpose.

READ MORE ...

Download the Maps App



The
Maps
App

**Developers
choose
CartoType**

Download the Maps App

**exceptional
service.**

PRODUCTS

DEVELOPERS

Overview

Overview

Download the Maps App

MARKETS

Documentation

THE MAPS APP

ARTICLES

CONTACT

Download the Maps App

@CartoType

All content copyright 2023
CartoType Ltd. By continuing to use
this site you are agreeing to use our

Download the Maps App