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Building Eigen with Visual Studio

[**Raw**](https://gist.github.com/UnaNancyOwen/08e5a9b8f5979ed0077c/raw/001216e7db1cb695bff5bf0ab606def3cafaba3f/Eigen.md)

[**Eigen.md**](https://gist.github.com/UnaNancyOwen/08e5a9b8f5979ed0077c#file-eigen-md)

**Building Eigen with Visual Studio**

**Download**

1. Eigen 3.2.2 to unzip the file to download (eigen-eigen-1306d75b4a21.zip). (C: \ eigen-eigen-1306D75b4a21) [Http://Eigen.Tuxfamily.Org/](http://eigen.tuxfamily.org/)[Https://Bitbucket.Org/eigen/eigen/downloads/](https://bitbucket.org/eigen/eigen/downloads/)

**CMake**

1. You want to specify the destination of the input destination and solution files of source code.
   * **Where IS the source code:** C: \ eigen-eigen-1306D75b4a21
   * **Where IS build the binaries:** C: \ eigen-eigen-1306D75b4a21 \ build
2. Press the [Configure] to select the Visual Studio that is the target.
3. It makes various settings.
   * **CMAKE\_INSTALL\_PREFIX** C: \ Program Files \ Eigen (or C: \ Program Files (x86) \ Eigen)
4. And output the solution file by pressing the [Generate].

**Build**

1. Start Visual Studio with administrative privileges Eigen solution file (C: \ eigen-eigen-1306d75b4a21 \ build \ Eigen.sln) to open.   
   (If you do not start with administrator privileges Visual Studio INSTALL to fail.)
2. It wants to install the Eigen. (INSTALL)
   1. Choose the INSTALL project from Solution Explorer.
   2. [Build]> [projects only]> to install the Eigen Press [INSTALL only the Build menu.**CMAKE\_INSTALL\_PREFIX** necessary files are copied to the specified output destination.

**Environment Variable**

1. Environment variable **EIGEN\_ROOT** create a Eigen of path: Set the (C \ Program Files \ Eigen).

[](https://gist.github.com/GeospatialDaryl)

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