

Software Hardware List

All recipes are automatically tested on Linux and macOS using Travis CI (<https://travis-ci.org/bast/cmake-recipes>) and on Windows using Appveyor (<https://ci.appveyor.com/project/bast/cmake-recipes>). We have used the following testing scripts:

- <https://github.com/bast/cmake-recipes/blob/master/.travis.yml>
- <https://github.com/bast/cmake-recipes/blob/master/.appveyor.yml>

For step-by-step installation instructions we recommend to follow the above mentioned automated testing scripts for Travis CI (Linux and macOS) and Appveyor (Windows), as well as the scripts referenced therein.

Chapter number	Software required (With version)	Free/Proprietary	Download links to the software	Hardware specifications	OS required
1-15	CMake >= 3.5 g++ supporting C++11 gcc supporting C99 gfortran Windows: msys2 installer or Visual Studio	Free	https://cmake.org/download/ https://gcc.gnu.org https://www.msys2.org	All chapters: Common laptop or desktop or virtual machine or container	All chapters: Linux, macOS, and Windows except chapters 14 and 16 (only Linux and macOS)
2	Eigen 3.3.4	Free	http://eigen.tuxfamily.org		

3	Python interpreter Python development libraries BLAS LAPACK MPI library Eigen 3.3.4 Boost 1.59 ZeroMQ	Free	https://www.python.org http://www.netlib.org/blas/ http://www.netlib.org/lapack/ https://www.open-mpi.org https://msdn.microsoft.com/en-us/library/bb524831(v=vs.85).aspx http://eigen.tuxfamily.org https://www.boost.org http://zeromq.org/		
4	Boost 1.54 Catch2 Google Test	Free	https://www.boost.org https://github.com/catchorg/Catch2 https://github.com/google/googletest		
5	Python interpreter Python development libraries BLAS LAPACK	Free	https://www.python.org http://www.netlib.org/blas/ http://www.netlib.org/lapack/		
6	Python interpreter Git	Free	https://www.python.org https://git-scm.com		

8	Boost 1.54 FFTW3 Eigen 3.3.4	Free	https://www.boost.org http://www.fftw.org http://eigen.tuxfamily.org		
9	LAPACK Python interpreter Python development libraries Cython Boost 1.54 CFFI pybind11	Free	http://www.netlib.org/lapack/ https://www.python.org http://cython.org https://www.boost.org https://cffi.readthedocs.io https://pybind11.readthedocs.io		
11	CFFI Anaconda pybind11	Free	https://cffi.readthedocs.io https://anaconda.org/ https://pybind11.readthedocs.io		
12	Doxygen Sphinx Breathe	Free	http://www.stack.nl/~dimitri/doxygen/ http://www.sphinx-doc.org https://breathe.readthedocs.io		
13	MXE Visual Studio	Free	http://mxe.cc https://www.visualstudio.com		Linux and macOS
14	CDash	Free	https://www.cdash.org		