What's in this Folder?

- CMakeLists.txt: file used by CMake.
- src: source code.
- sample_dataset: two sample datasets downloaded from LIBSVM website.
- Eigen: a library downloaded from eigen.tuxfamily.org/
- build: Visual Studio 2011 project.
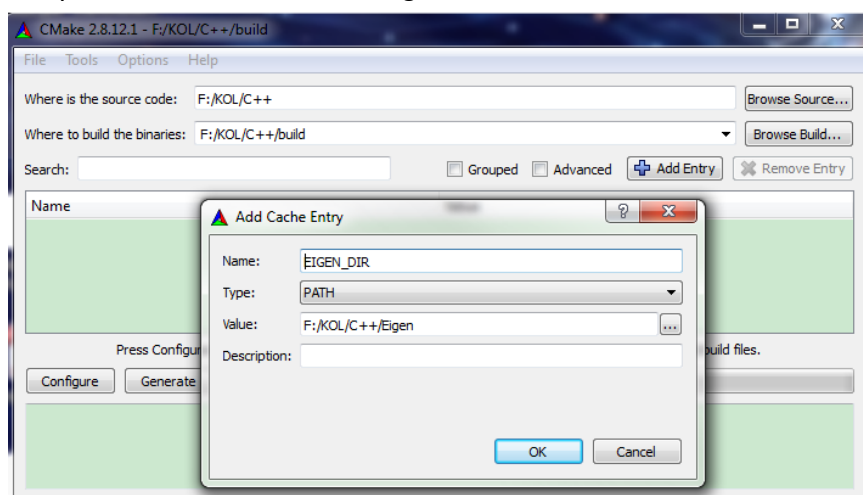- python: experiment scripts.

Installation on Windows:
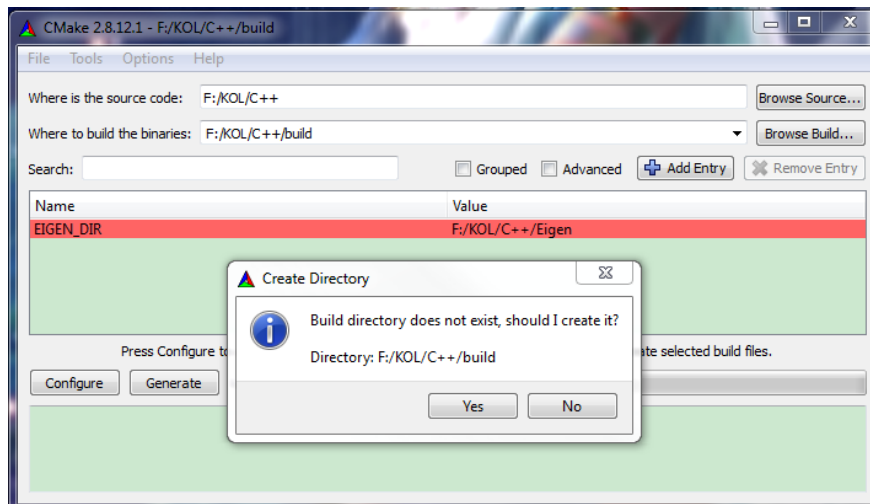
Required Packages:

- Visual Studio 2012
- CMake 2.8
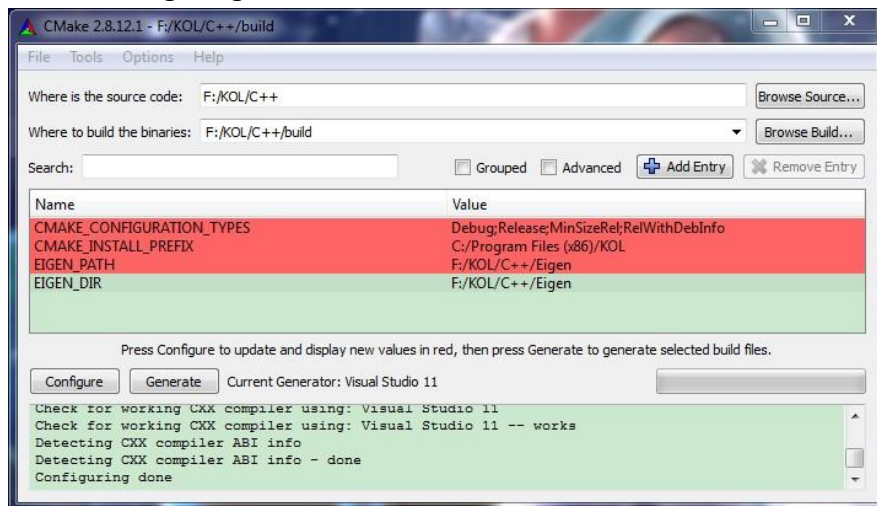- Eigen (download from eigen.tuxfamily.org/)
- Python 2.7
- Cygwin

Steps:

1. Open *cmake-gui.exe*, set where is the source code and where to build the binaries.
2. Click "*Add Entry*" and set name as: " *EIGEN_DIR*", Type: "*PATH*" and Value as the path of the downloaded *Eigen*. Click *OK*.
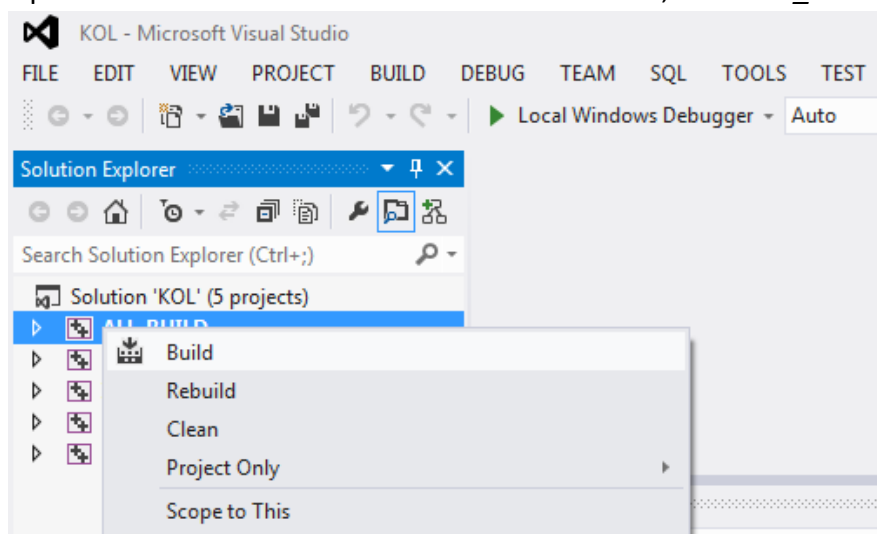
3. Click Configure. Click "*yes*" for creating new folder.

4. Select compiler.
5. After "Configuring done", click Generate.

6. Open *KOL.sln* in the build folder with Visual Studio, build *ALL_BUILD*.

7. The KOL.exe file is in folder *build\bin\Debug* or *build\bin\Release*.

Installation on Linux:

Required Packages:

- GCC>=4.6.3
- CMake 2.8
- Python 2.7
- Eigen (download from eigen.tuxfamily.org/)

Steps:

1. Make a directory for building the project.
2. Enter the directory and Run Cmake.
3. Type "make".
4. the file "KOL" is in folder /bin

Example:

$ cd KOL

$ ls

CMakeLists.txt data Eigen python sample_dataset src

$ mkdir build

$ cd build

$ cmake -DEIGEN_DIR=`pwd`/../Eigen -DCMAKE_CXX_FLAGS='-std=c++0x -O3' ..

$ make

$ bin/KOL