

C++

Python

[CMakeLists.txt](#) [example.cpp](#) [plot.py](#)

To compile we can use for example *CMake*:

```
cmake_minimum_required VERSION 3.1

project example

set HIGHFIVE_USE_XTENSOR 1
set HIGHFIVE_USE_BOOST 0
find_package HighFive REQUIRED
find_package GooseFEM REQUIRED
find_package GMatElastic REQUIRED

add_executable example example.cpp
target_link_libraries example PRIVATE GMatElastic GooseFEM HighFive
target_link_libraries example INTERFACE xtensor::optimize xtensor::use_xsimd
```

Whereby we notice the use of *GMatElastic* as described, but also *HighFive* illustrate a way of storing data and then plotting it with Python.

Proceed for example as follows:

1. Get the prerequisites:

```
conda install -c conda-forge goosefem gmatelastic highfive python goosempl
```

2. Compile:

```
cmake -S build
cd build
cmake --build .
```

3. Run:

```
./example
```

4. Plot:

```
python ../plot.py
```