FEniCS Course

Lecture 1: Installation of FEniCS

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Installation alternatives



™ Nike Server (Simula internal)



 \blacksquare Docker images on Linux, Mac, Windows

http://fenicsproject.org/download/

FEniCS on Nike (Simula only)

The nike server at Simula has FEniCS pre-installed and can be used from the Jupyter notebook interface.

Log into the Nike server using your github credentials:

http://nike.simula.no

Live demo

Installation using Docker

Follow instructions to install Docker on Linux, Mac, or Windows:

```
https://docs.docker.com/linux/ or mac/, windows/
```

Download and open a terminal in a clean FEniCS environment:

Bash code

```
$ curl -s http://get.fenicsproject.org | sh
```

Bash code

```
$ fenicsproject notebook suurph dev
```

\$ fenicsproject start suurph

More instructions on using FEniCS Docker images here:

http://fenics-containers.readthedocs.org

The FEniCS challenge!

Login to Nike and create a new Python notebook, or install FEniCS on your laptop!

http://nike.simula.no http://fenicsproject.org/download/

Does it work?

Python code

```
%matplotlib inline # Needed for plotting in
    Jupyter notebooks

from fenics import *

mesh = UnitCubeMesh(16, 16, 16)
plot(mesh)
interactive()
```

