**Install WSL (windows subsystem linux):**

<https://docs.microsoft.com/en-us/windows/wsl/install-win10>

(Used Ubuntu 18.04)

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(same as Jason’s github)

**Open ubuntu:**

sudo apt install gcc g++ cmake make git

sudo apt install python3-dev python3-venv

sudo apt install libopenmpi-dev freeglut3-dev

**To solve “llvm version too low” error**

$ sudo apt-get install llvm-10 llvm-10-dev

$ export LLVM\_CONFIG=/usr/bin/llvm-config-10

**To solve numba requires colorama >= 0.3.9 error**

**Try this first:**

$ sudo pip install colorama –upgrade

**Or:**

$python3 -m pip install colorama

**To solve no h5diff directory error**

$ sudo apt-get update -y

$ sudo apt-get install -y hdf5-tools

### Clone repository

$ git clone <fastPLI-repository>

$ cd fastpli

**Compilation**

$ make fastpli

$ pip3 install .

**Tests**

$ python3 setup.py test

**Run**

# install required modules for examples

pip3 install -r examples/requirements.txt

# run examples

python3 examples/sandbox.py

python3 examples/solver.py

python3 examples/simpli.py

python3 examples/simulation\_pipeline.py

run fiber file:

cd fastpliFork

export DISPLAY=:0

git pull

python3 examples/runfile.py

git add .

git commit *-m "push* output"

git push origin master

cp ~/VolumeCollisionSolverFengting/input/input.dat ~/VolumeCollisionSolverFork/input/

cp ~/VolumeCollisionSolverFengting/example/loop\_fiber.py ~/VolumeCollisionSolverFork/example/

cp ~/VolumeCollisionSolverFork/output/input\_solved.dat ~/VolumeCollisionSolverFengting/output/

**Authentication**

<https://docs.github.com/en/github/authenticating-to-github/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent#generating-a-new-ssh-key>