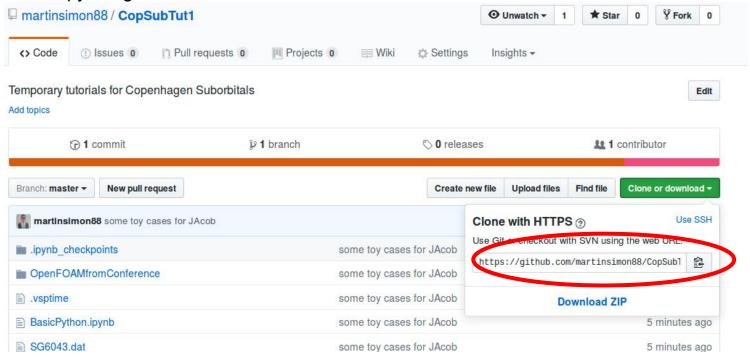


1. Install the following Python packages (they will be necessary in the following tutorials):

simonx@simonx:~\$ sudo pip install numpy string matplotlib

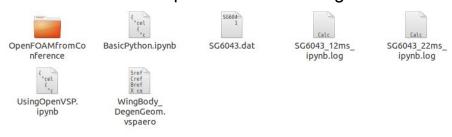
- 2. Go to: https://github.com/martinsimon88/CopSubTut1
- 3. Copy the git link:

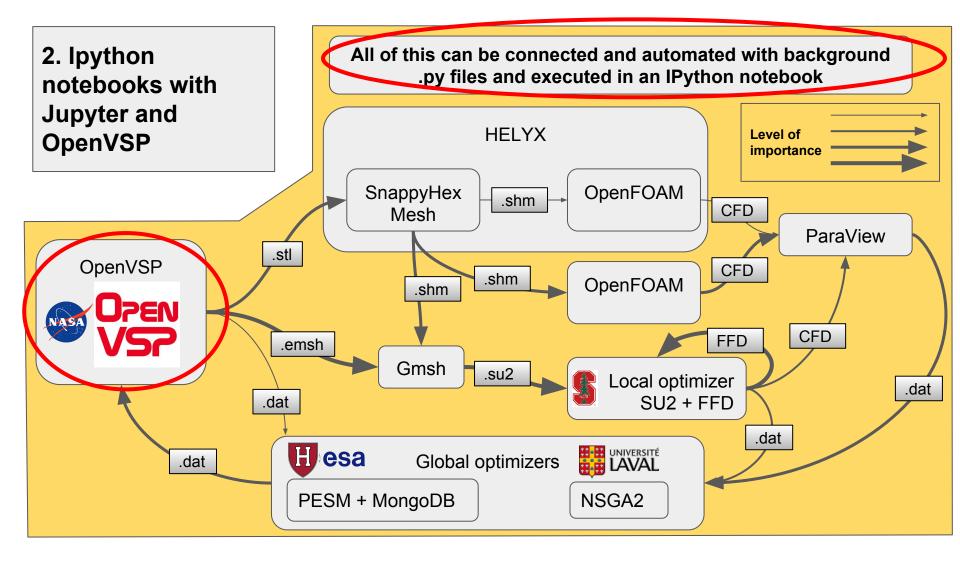


4. Download the whole repository to your home directory using git (to paste in Terminal: ctrl+shift+V):

```
simonx@simonx:~$ git clone https://github.com/martinsimon88/CopSubTut1.git
Cloning into 'CopSubTut1'...
remote: Counting objects: 48, done.
remote: Compressing objects: 100% (36/36), done.
remote: Total 48 (delta 8), reused 48 (delta 8), pack-reused 0
Unpacking objects: 100% (48/48), done.
Checking connectivity... done.
simonx@simonx:~$
```

5. Now you should have a folder called CopSubTut1 containing that looks like this:





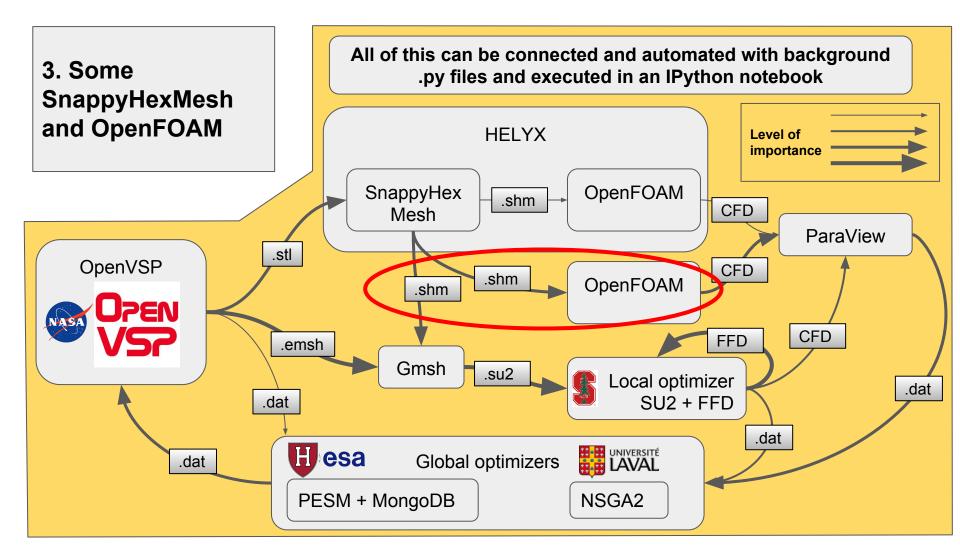
1. Move to downloaded folder and execute jupyter notebook as shown on picture:

simonx@simonx:~\$ cd CopSubTut1/

3. Get a feel of how some of the code works I have used in my school work by going through cells and pressing Shift+Enter on the keyboard. Explanations are given in the cells

In [22]: #Here we import some libraries
#To make sure you have all of them ins
import numpy as np
import string
import matplotlib.pyplot as plt
%matplotlib inline

4. Now try out UsingOpenVSP.ipynb. Again, descriptions in the code. Analysis part should take ca 5-20 minutes. Maybe more... I can't remember. Definetely less than CFD.



Move to cd CopSubTut1/OpenFOAMfromConference/bwb/ in Terminal: 1.

simonx@simonx:~/CopSubTut1/OpenFOAMfromConference/bwb\$

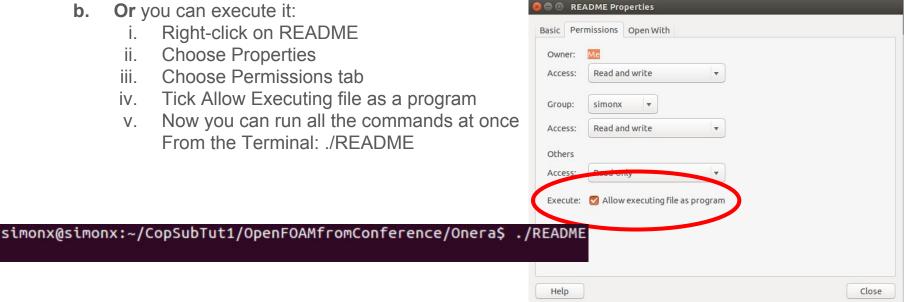
2. Open the instruction notes and copy+paste commands to Terminal:



- **Or** move to cd CopSubTut1/OpenFOAMfromConference/Onera/ in Terminal. 3.
 - You can either copy+paste commands from instruction notes to Terminal



- Or you can execute it: b.
 - Right-click on README
 - **Choose Properties**
 - Choose Permissions tab
 - iv. Tick Allow Executing file as a program
 - Now you can run all the commands at once From the Terminal: ./README



Try exchanging the Onera case with wingbody case in the README 4. document