To Install Flow and Jupyter support on Windows:

Install WSL Ubuntu and set it up

Set up Anaconda on Ubuntu <https://gist.github.com/kauffmanes/5e74916617f9993bc3479f401dfec7da>

Particularly useful command:

jupyter notebook --no-browser

Create a new environment, ‘flow’ or whatever name

Install flow on your computer (doesn’t need to be within Ubuntu)

<https://flow.readthedocs.io/en/latest/flow_setup.html#local-installation-of-flow>

Install Xming to set the display

Install nb\_conda\_kernels package in your environment with

conda install -n envornment\_name nb\_conda\_kernels

Use the package to set up jupyter kernel with your new environment <https://stackoverflow.com/questions/39604271/conda-environments-not-showing-up-in-jupyter-notebook>

To Install Flow using Docker:

(outlined using Singularity, Docker shouldn’t be too different)

1) Make a directory called "docker" to store my .sif files, then cd docker

2) Next pull the sif file from docker:

singularity pull docker://richardehughes/ubuntu\_osuphysics\_flow:v4

3) Start it up: singularity shell ubuntu\_osuphysics\_flow\_v4.sif

4) Need to do this once:

cd

mkdir flow\_work

cd flow\_work

git clone <https://github.com/flow-project/flow.git>

cd flow

pip install -e .

5) Now make a script to setup the sumo path.   I called mine setup\_sumo.sh, and I put the following two lines in it:

export PATH="/project/sumo\_binaries:$PATH"

export SUMO\_HOME="/project/sumo\_binaries"

You can make this file using the "nano" editor:

nano setup\_sumo.sh

Once the file is made, source it: source setup\_sumo.sh

6) Now you can run the example: python examples/simulate.py ring