Prepping for LoisLab projects on Windows

1. Install Git:

- a. Go to https://git-scm.com/download/win and download the setup program
- b. Install with the defaults
- c. Test it by cloning the repo for Qbot by typing:

git clone https://github.com/LoisLab/qbot.git

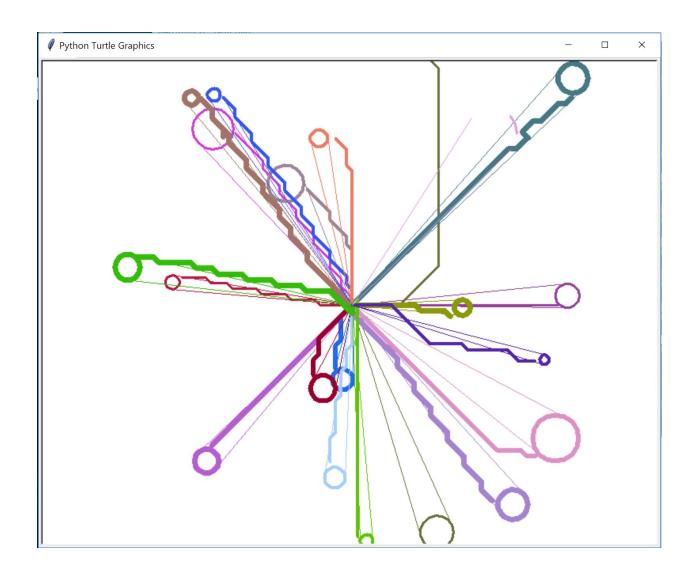
2. Install Python:

- a. Go to https://www.python.org/downloads/windows/
- b. Click the "Latest Python 3 Release" link at the top of the list
- c. Click the "Windows x86-64 executable installer" link to download and save it in your Downloads folder
- d. Run the installer. Note the installation path on this screen under "Install now" you may need it for the next step.
- e. Check "Add python to PATH"
- f. Click Install Now
- 3. Add Python to the system path:

Sometimes the installer fails to add Python to the path. We'll check, and fix it if needed.

- a. Open a command prompt
- b. Type "python" and hit enter. If the python interpreter opens and you get a prompt like ">> " then you are okay to skip to step 4. Otherwise, continue.
- c. Go to the start menu, control panel, System and Security, System
- d. Click Advanced System Settings
- e. Click Environment Variables
- f. Under System variables, choose "path" and click edit.
- g. On the next available blank line, add the path to the python install from the previous step. For me, that was "C:\Users\<username>\AppData\Local\Programs\Python\Python37\". Yours will be different.
- h. Click OK all the way back out
- 4. Install numpy
 - a. Open a command prompt
 - b. Type "python -m pip install numpy" and hit enter

If everything is properly set up - you have a copy of the QBot project files and a working Python environment with numpy - you should be able to test out the QBot simulation. Go into your clone of the QBot project and type "python example_virtual.py". If you see an animation that starts drawing paths like the image below, you're all set up:



If you have any questions, comments, or stories to share, don't hesitate to contact us!

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