**Installation Part 1**

[**https://github.com/thanhnh-infinity/Research\_CPS.git**](https://github.com/thanhnh-infinity/Research_CPS.git)

Installation video:

<https://drive.google.com/file/d/1WQSi0P1LSlGCR--b0Hve0xBPrSWWc5Fw/view?usp=share_link>

<https://drive.google.com/file/d/1Gjj-rakZpUX5V_jnVK-PAoM5LT9eewEi/view?usp=sharing>

If you get an error message about “javac not found”, use this link to install:

<https://www.oracle.com/java/technologies/downloads/>

Furthermore, your computer may not recognize the “cp” command used in the video (I believe this is a feature that may be exclusive to MacBooks). However, the workaround is just copying whatever files need to be copied manually into their respective places.

**Step 6: Running the Program**

The command is different on Windows. Use “java -Dfile.encoding=UTF-8 -classpath .\CPS\_Test\bin asklab.querypicker.QueryPicker”

**Installation Part 2**

1. git clone [https://github.com/thanhnh-infinity/Research\_CPS.git](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fgithub.com%2Fthanhnh-infinity%2FResearch_CPS.git&data=04%7C01%7Cstran%40nmsu.edu%7Cf26fac93ae0d47fdb10108d9cbdd4d41%7Ca3ec87a89fb84158ba8ff11bace1ebaa%7C1%7C0%7C637764973605578042%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=w8QrOR8e64sXLaJMCnfN8aZUFfGb5rY6tmYjpOhir7o%3D&reserved=0)
2. git checkout matthew (switching to the branch I’ve been using)

\* “cd Research\_CPS” first, or command will not work

1. Set up the environment with:
   1. Install Anaconda here (and make sure it is installed on PATH!): <https://www.anaconda.com/products/distribution/start-coding-immediately>
   2. cd Research\_CPS\interface\testing\
   3. conda env create -f ontology\_GUI\_env\_windows.yml or conda env create -f ontology\_GUI\_env\_mac.yml
2. Run with:
   1. conda activate ontology\_GUI\_env\_windows or conda activate ontology\_GUI\_env\_mac
   2. dot -c (not sure what this does exactly, but it’s necessary)
   3. python OntologyGUI.py (to launch the editor) **NOTE:** the ontology files are loaded from subdirectory workshop\_ontologies/

If you get a pygraphviz error, here is how to install it properly (pip will not work!):

Download and run:

<https://gitlab.com/graphviz/graphviz/-/package_files/6164164/download>

Paste this command into **powershell** (not command prompt!):

PS C:\> python -m pip install --global-option=build\_ext `

--global-option="-IC:\Program Files\Graphviz\include" `

--global-option="-LC:\Program Files\Graphviz\lib" `

pygraphviz

If you are on something else besides Windows, use this link to look at other supported operating systems: <https://pygraphviz.github.io/documentation/stable/install.html>