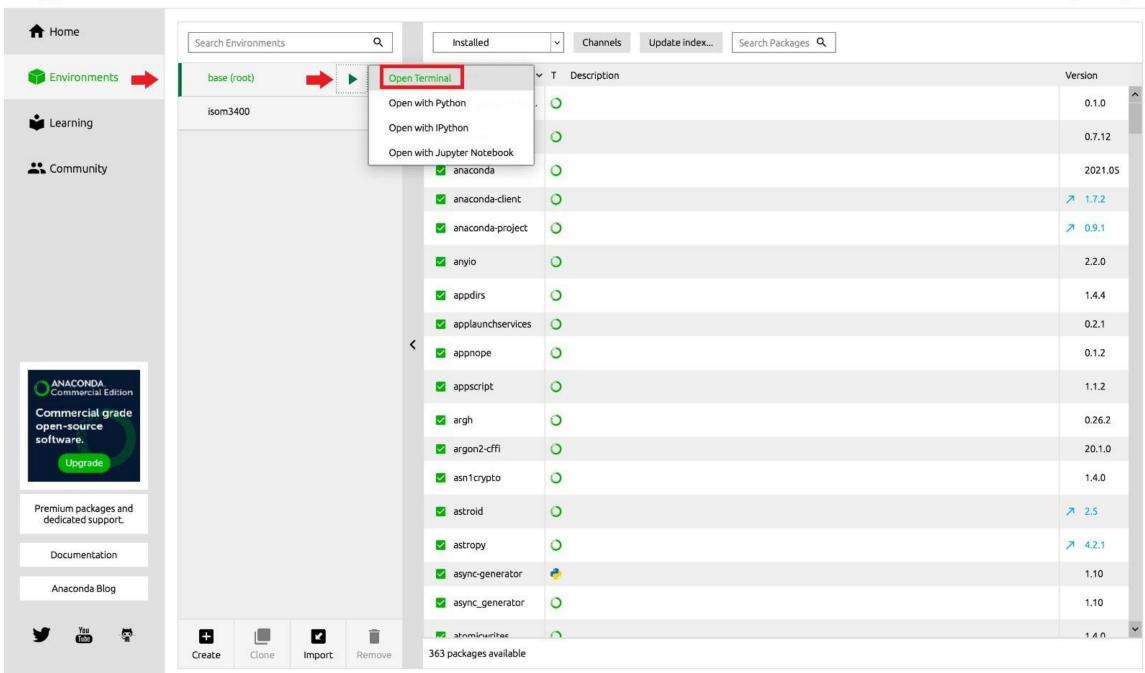
- Windows User: Launch Anaconda Prompt (Anaconda3)
- Mac User: Launch Terminal (command + space bar -> type Terminal)
- Or open through Anaconda Navigator:
 - **Environment -> base(root) -> Open Terminal**
- Try conda list and press Enter
- What happens?

```
Anaconda Prompt (Anaconda3)

(base) C:\Users\ >conda list_
```

ANACONDA.NAVIGATOR



- Check Python version: python --version
- What environments do you have in your computer? conda info --envs

```
(base) C:\Users\ >conda info --envs
# conda environments:
#
```

- Command to create an environment:
- conda create --name environment name python=version number
- OR conda create -n environment name python=version number
- By default, the command will create an environment with an updated python version
- If you need an older version, specify it (e.g. python=3.8)
- Try to create one by yourself

Type y and press Enter to proceed

```
Anaconda Prompt (Anaconda3) - conda create --name labdemo python
                                                                                                                pip-20.3.3
                                  py39haa95532_0
                                                         1.8 MB
                                                        16.4 MB
  python-3.9.1
                                      h6244533 2
   setuptools-52.0.0
                                                         725 KB
                                  py39haa95532 0
   salite-3.33.0
                                      h2a8f88b 0
                                                         809 KB
   tzdata-2020f
                                      h52ac0ba 0
                                                         113 KB
   vc-14.2
                                      h21ff451 1
                                                           8 KB
   vs2015 runtime-14.27.29016
                                      h5e58377 2
                                                         1007 KB
   wheel-0.36.2
                                    pyhd3eb1b0 0
                                                          33 KB
                                  pv39h2bbff1b 0
                                                          15 KB
   wincertstore-0.2
                                          Total:
                                                        25.9 MB
The following NEW packages will be INSTALLED:
 ca-certificates
                    pkgs/main/win-64::ca-certificates-2021.1.19-haa95532_0
 certifi
                    pkgs/main/win-64::certifi-2020.12.5-py39haa95532 0
 openssl
                    pkgs/main/win-64::openssl-1.1.1i-h2bbff1b 0
                    pkgs/main/win-64::pip-20.3.3-py39haa95532 0
                    pkgs/main/win-64::python-3.9.1-h6244533_2
 python
 setuptools
                    pkgs/main/win-64::setuptools-52.0.0-py39haa95532 0
 salite
                    pkgs/main/win-64::sqlite-3.33.0-h2a8f88b 0
 tzdata
                    pkgs/main/noarch::tzdata-2020f-h52ac0ba 0
                    pkgs/main/win-64::vc-14.2-h21ff451 1
                    pkgs/main/win-64::vs2015 runtime-14.27.29016-h5e58377 2
 vs2015 runtime
 wheel
                    pkgs/main/noarch::wheel-0.36.2-pyhd3eb1b0_0
                    pkgs/main/win-64::wincertstore-0.2-py39h2bbff1b 0
 wincertstore
                    pkgs/main/win-64::zlib-1.2.11-h62dcd97 4
```

- After the creation of environment, we are still working with the base environment.
- Activate environment: conda activate environment name



- Try conda list and python --version
- Any difference compared to the base environment you are using?
- Try conda install ipykernel

- If you do not want to work in this environment anymore, you can simply type conda deactivate to go back to the base environment
- Delete environment: conda env remove --name environment name



Virtual Environment and VS Code for Python Programming

(Quick Start)

By James S. H. Kwok

Virtual Environment

Required	Optional
Step 1: Go and launch	
Terminal	
	Step 2: change to the destination folder cd << destination>>
	Step 3: Show all virtual environment conda env list
Step 4: Create a virtual environment	
conda create -n isom3400 python=3.8	
Step 5: Activate the virtual environment	
conda activate isom3400	
	Step 6: Show all package
	conda list
Step 7: Install a package	
conda install pandas	
	Step 8: Exit the virtual environment
	conda deactivate

VS Code

Step 1: Launch VS Code	
start code	
Step 2 (optional): Change to working directory	
File - Open << destination directory >>	
Step 3: New a py file	
New File	
Or	
Click "New File" icon, and enter "isom3400_variable.py"	
Step 4: Use #%% to separate sections of code	
#%%	
print("Hello World!")	