

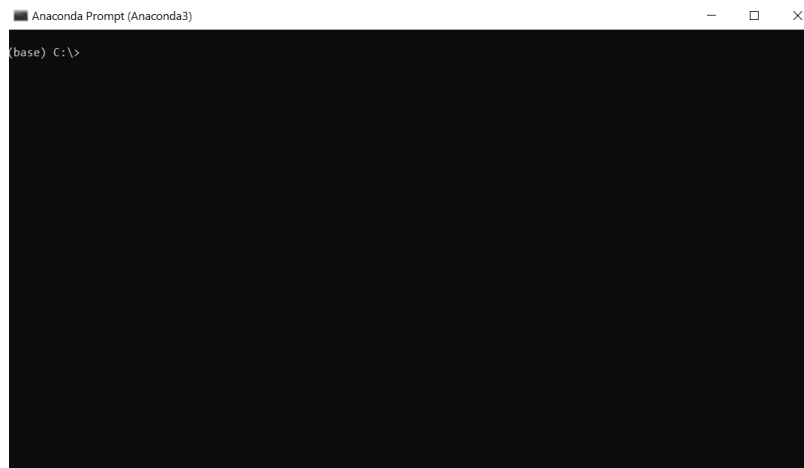
Working with WaterTAP3 using Jupyter and Conda

1. Install Anaconda

Follow the instruction: <https://docs.anaconda.com/anaconda/install/>

If successful, Python, pip and Jupyter Notebooks are automatically installed

2. Open Anaconda Prompt, use cd to navigate to your directory

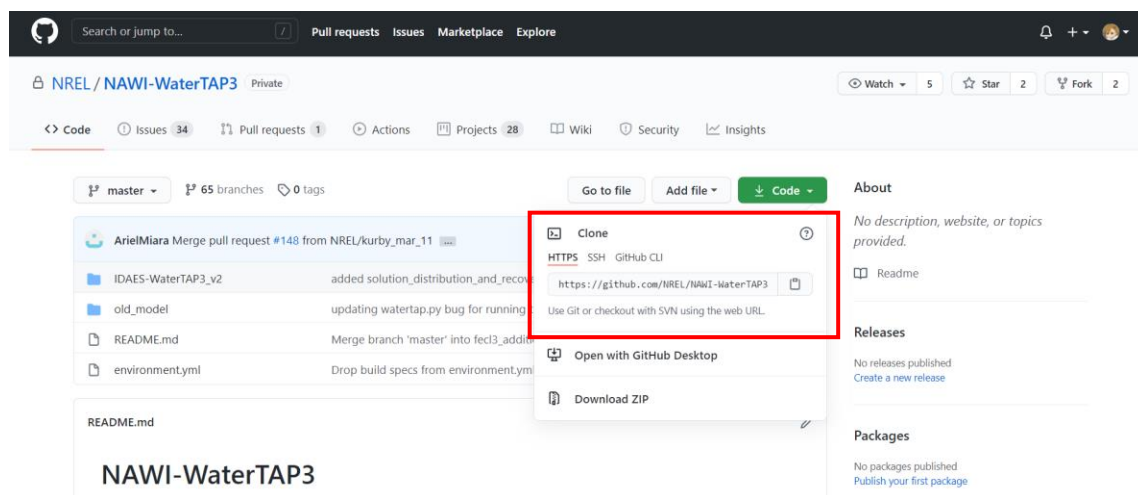


base is the default environment that we are working on

3. Clone watertap3 repository to local machine using git

Install git

```
$ pip install git
```



Then clone this remote repository to local machine using git

```
$ git clone https://github.com/NREL/NAWI-WaterTAP3.git
```

If successful, there will be a folder called NAWI-WaterTAP3 in your directory

4. Create an WaterTAP3 environment from the given file environment.yml

```
$ conda env create --file environment.yml
```

If successful, there will be a new environment called watertap3 when you type

```
$ conda env list
```

```
base                * C:\Users\awang\Anaconda3
musa620             C:\Users\awang\Anaconda3\envs\musa620
watertap3           C:\Users\awang\Anaconda3\envs\watertap3
```

Environments must first be activated before packages are available to use

```
$ conda activate watertap3
```

If the development team update the environment.yml in the future

```
$ conda env update --file environment.yml
```

To delete this environment

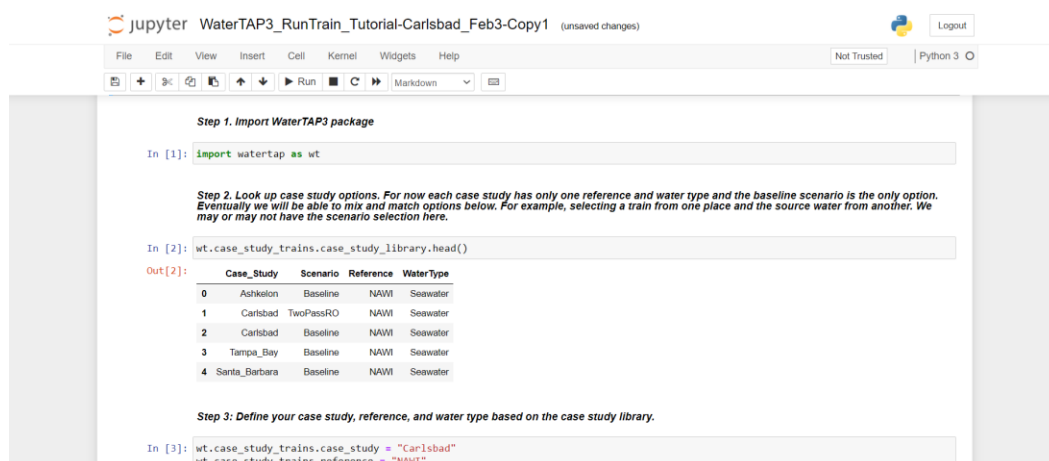
```
$ conda remove --name watertap3 --all
```

5. Open Jupyter Notebook dashboard

```
$ jupyter notebook
```



6. Open the desired .ipynb notebook and execute cells



Useful Links

1. Anaconda: <https://docs.anaconda.com/anaconda/>
2. Jupyter Notebook: <https://jupyter-notebook.readthedocs.io/en/stable/>
3. Git: <https://education.github.com/git-cheat-sheet-education.pdf>
4. Conda Issues: <https://musa-550-fall-2020.github.io/guides/conda-issues>

Any helps?

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