conda_virtual_env

Create Virtual Environment

- 1. Create the environment conda create --name myenv
- 2. Proceed, type y
 - Creates the envornment in /envs/
- 3. To create an environment with a specific Python version conda create -n myenv python=3.9
- 4. Create an environment with a specific package conda create -n myenv scipy
- 5. Create an environment with a specific version of Python and multiple packages: conda create -n myenv python=3.9 scipy=0.17.3 astroid babel

Create an environment from an .yml file

- 1. Create environment from environment.yml file conda env create -f environment.yml
- 2. Activate the new environment conda activate myenv
- 3. Verify that the new environment was installed correctly conda env list

List environments

conda info --envs

Cloning an environment

Create an exact copy of the environment by cloning it:

```
conda create ---name myclone --clone myenv
```

To verify the copy was made:

conda info --envs

Activate an environment

conda activate myenv

Deactivate an environment

conda deactivate

List environments

conda env list

List packages in environment

- Environment is not activated
 - ∘ conda list -n myenv
- Environment is activated
 - conda list
- · Determine if package is installed in environment
 - conda list -n myenv scipy

Using pip in an environment

```
conda install -n myenv pip
conda activate myenv
pip <pip_subcommand>
```

Create .yml file through export

If you want to make your environment file work accross all platforms, use conda env export --from-history > file.yml flag. This will only include packages you've explicity asked for, as opposed to including every package in your environment.

If you use conda env export it will export all of 5those packages.

Creating a yml file manually

```
name: stats
dependencies:
   - numpy
   - pandas
```

EXAMPLE: A more complex environment file:

```
name: stats2
channels:
    - javascript
dependencies:
    - python=3.9
    - bokeh=2.4.2
    - conda-forge::numpy=1.21.*
    - nodejs=16.13.*
    - flask
    - pip
    - pip:
    - Flask-Testing
```

Removing an environment

conda remove --name myenv --all

To verify the environment was removed run:

conda info --envs

Set env as kernal for use in Jupyter Notebook

- 1. Create a conda environment conda create --name firstEnv
- 2. activate the environment conda_virtual_env > Activate an environment
- 3. Install relevant packages
- 4. Add conda environment as a kernal for Jupyter notebooks

```
conda install -c anaconda ipykernal
python -m ipykernal install --user --name=firstEnv
```

5. Select firstEnv as your kernal for the notebook