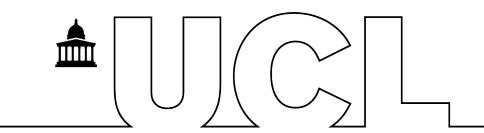


Virtual Environments in Anaconda

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What is anaconda virtual environment good for?

- · It allows you to have different versions of Python and/or packages within the same computer
 - → allows you to work in different projects with various requirements in the same computer (i.e. different versions needed)
- · It can be saved in a file, that is easily shared among computers
 - → good if you need to use different computers
 - → good for working with different people
 - → amazing for reproducibility!



Today we will:

- 1. Create our own environment
- 2. Learn how to activate and deactivate it
- 3. Install packages within it
- 4. Learn how to create a shareable file
- ... all of this from the terminal (Mac) or conda prompt (Windows)



1. Create the environment

Option 1: from an existing environment.yml file

conda env create --file environment.yml

Option 2:

conda create -n [name of the enviornment] [specs]

To make sure it was properly created:

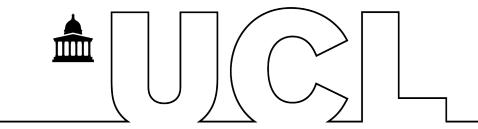
conda env list



2. Activate and deactivate the environment

conda activate [name of the environment]

conda deactivate



4. Install packages

If you are not within the environment
conda activate [name of the environment]
Once you are within it

```
conda install [name of the package]

or

conda install -c r [name of r package]

or (if you have pip)

pip install [name of the package]
```



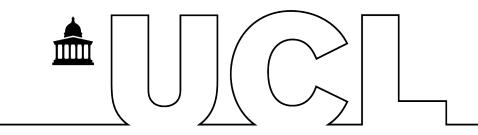
5. Create shareable files

· If you are not within the environment

conda activate [name of the environment]

Once you are within it

conda env export --file [name of file].yml



Other useful stuff

• Go to: https://conda.io/projects/conda/en/latest/user-guide/tasks/manage-environments.html