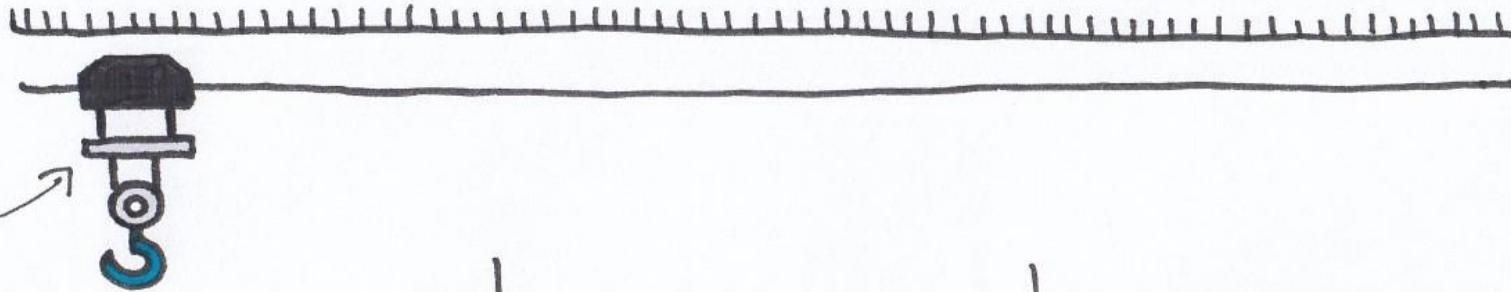
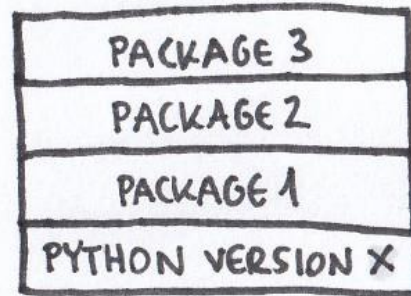


1. THE INSTALLER  
FIRST SETS UP  
CONDA



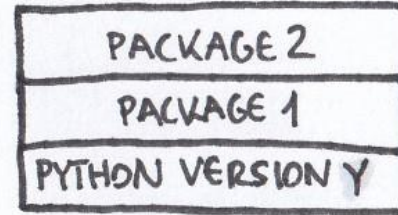
THIS IS CONDA,  
THE PACKAGE  
ENVIRONMENT  
MANAGER

2. THEN CONDA  
CREATES  
THE ROOT  
ENVIRONMENT

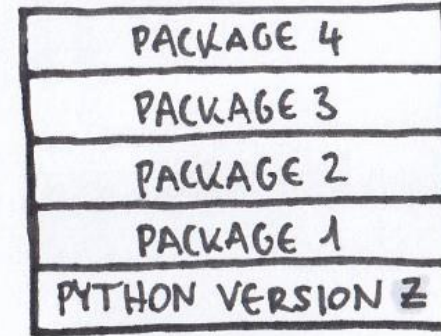


ROOT  
ENVIRONMENT

3. PYTHON IS  
BEING INSTALLED  
AS A PACKAGE



ADDITIONAL  
ENVIRONMENT 1



ADDITIONAL  
ENVIRONMENT 2

4. LATER YOU CAN  
ADD AS MANY ADDITIONAL  
ENVIRONMENTS AS YOU WANT  
(AND YOU CAN NAME IT WHATEVER  
YOU LIKE)

5. DIFFERENT ENVIRONMENTS  
CAN CONTAIN DIFFERENT  
PYTHON VERSIONS AND  
DIFFERENT SETS OF  
PACKAGES

# A simple example on Sapelo2

- 1. `qlogin` (open an interactive session for building your conda environment)
- 2. `ml Miniconda3/4.4.10-refresh` (load Miniconda3 fresh version)
- 3. `mkdir ./myenv` (the full path to env location will be `/home/username/myenv`)
- 4. `conda create -p /home/username/myenv/` (create your own env at the location created in step 3)
- 5. `conda env list`
- 6. `source activate /home/username/myenv`
- 7. `conda list`
- 8. `conda install numpy==1.16.2` (install `numpy/1.16.2`) (conda `uninstall/remove`)
- 9. `conda install matplotlib` (install latest `matplotlib`)
- 10. `python program.py` (run your python script in your conda virtual env)
- 11. `conda deactivate` (conda `env list`)
- 12. `conda remove /home/username/myenv`

# A practical example on Sapelo2

- 1. `qlogin` (open an interactive session for building your conda environment)
- 2. `ml Miniconda3/4.4.10-fresh` (load Miniconda3 fresh version)
- 3. `mkdir ./env-busco` (the full path to env location will be `/home/username/env-busco/`)
- 4. `conda create -p /home/username/env-busco/` (create the env at the location created in step 3)
- 5. `conda env list`
- 6. `source activate /home/username/env-busco`
- 7. `conda install -c bioconda busco` (install busco env via additional channel, e.g. bioconda, conda-forge)
- 8. `python /home/username/env-busco/bin/run_BUSCO.py -h` (run busco help info)

Conda cheat sheet is at

<http://know.continuum.io/rs/387-XNW-688/images/conda-cheatsheet.pdf>

[https://kapeli.com/cheat\\_sheets/Conda.docset/Contents/Resources/Documents/index](https://kapeli.com/cheat_sheets/Conda.docset/Contents/Resources/Documents/index)