## Cheatography

## What is a virtual environment?

A virtual environment is a Python tool for dependency management and project isolation. They allow Python site packages (third party libraries) to be installed locally in an isolated directory for a particular project.

Most Popular Virtual Environment Manager			
virtualenv	The most popular and work with Python 2 and 3		
venv	A standard library, similar to virtualenv shipped with Python 3		
virtualenvwrapper	A set of extensions to virtualenv. Useful when using multiple virtualenv directories.		
pipenv	Less popular, It automatically creates and manages a virtualenv for your projects by combining Pipfile, pip and virtualenv into one command on the command-line.		
poetry	Similar to pipenv		
conda	Included in all versions of Anaconda and Miniconda. Anaconda brings many of the tools used in data science and machine learning with just one install.		

Using virtualenv and venv		
Installing virtualenv	macOS and Linux	python3 -m pip installuser virtualenv
	Windows	py -m pip installuser virtualenv
Creating a virtual environment	macOS and Linux	python3 -m virtualenv my-env
	Windows	py -m virtualenv my-env
Activating a virtual environment	macOS and Linux	source my-env /bi n/a ctivate
	Windows	.\my-e nv \Scr ipt s\a ctivate
Leaving the virtual environment		deactivate
Installing packages		pip install requests

To use venv instead of virtualenv simply change virtualenv with venv while creating the virtual environment

Using Pipenv		
Installing Pipenv	macOS and Linux	python3 -m pip installuser pipenv
	Windows	py -m pip installuser pipenv
Install packages from Pipfile	macOS and Linux	python3 -m pipenv install
	Windows	py -m pipenv install
Add a package	macOS and Linux	python3 -m pipenv install requests
	Windows	py -m pipenv install requests
Activating a virtual environment	macOS and Linux	python3 -m pipenv shell
	Windows	py -m pipenv shell
Leaving the virtual environment		exit

When installing a package for the first time a virtual environment will be created automatically and it will create a Pipfile for you in your project's directory. The Pipfile is used to track which dependencies your project needs in case you need to re-install them.



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