Devon Rudd

Muntuck Yap

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Python Virtualenv

<center>Virtualenv in Python</center>

Virtual environments in Python are used to prevent packages from interfering with each other. Say that there are three distinct packages A, B, and C. A could depend on version 1.0 of C, but B could depend on version 2.0 of C. This is where virtual environments help. It will create a separate folder in the project directory (called venv by default, you can change the name if you wanted). It will keep Python and pip executable files in this virtual environment folder. New packages you decide to install will be installed under the Project/venv/lib/(python-version)/site-packages folder. When you are done with the virtual environment you can deactivate it. You can also freeze packages so if you putting the product into production, you don't forget what packages and versions you installed. You can create multiple virtual environments so that you can try your code with different versions of packages. You can also remove virtual environments you don't need to have around anymore.

`virtualenv PythonAppVenv` →

ProjectFolder:
 - venv:
   - bin
     (packages
      go here)
    include
    lib
    local

`pip install package` →

 - lib
  - pythonVersion
    (some stuff)
    - site-packages
      package