Virtual Environments and Packages

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Virtual Environments

Create a virtual environment

python -m venv myenv

Activate a virtual environment

source myenv/bin/activate

Deactivate a virtual environment

deactivate

pip

```
Install a package
pip install <package_name>
List installed packages
pip list
Uninstall a package
pip uninstall <package_name>
Upgrade a package
pip install --upgrade <package_name>
Freeze installed packages to a requirements file
pip freeze > requirements.txt
Install packages from a requirements file
pip install -r requirements.txt
Upgrade pip
pip install --upgrade pip
```