

Installing Python Packages using Pip

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0.1 Introduction

Pip is a package manager for Python. It is used to install, uninstall, and manage Python packages. Packages are bundles of Python code that provide specific functionality. Pip can be used to install packages from the Python Package Index (PyPI), which is a repository of Python packages.

0.2 Installing Pip

If you do not have pip installed, you can install it using the following command:

```
" python get-pip.py "
```

This will install or upgrade pip. Additionally, it will install setuptools and wheel if they're not installed already.

0.3 Package installation

Here we will see how to install python packages using pip command.

For installing Numpy command is "pip install numpy", for pandas "pip install pandas" and for OpenCV "pip install opencv-python".

Now check images from this table for detail..

Table 1: package installation

Packagename	Command line image which include commands and process
Numpy	<pre>C:\Users\HP>pip install numpy Collecting numpy Downloading numpy-1.25.1-cp310-cp310-win_amd64.whl (15.0 MB) ----- 15.0/15.0 MB 2.8 MB/s eta 0:00:00 Installing collected packages: numpy Successfully installed numpy-1.25.1</pre>
Pandas	<pre>C:\Users\HP>pip install pandas Collecting pandas Obtaining dependency information for pandas from https://files.pyt honhosted.org/packages/ed/30/b97456e7063edac0e5a405128065f0cd2033adf e3716fb2256c186bd41d0/pandas-2.0.3-cp310-cp310-win_amd64.whl.metadata a Downloading pandas-2.0.3-cp310-cp310-win_amd64.whl.metadata (18 kB) Collecting python-dateutil<2.9, >2.8.2 (from pandas) Obtaining dependency information for python-dateutil from https://fi les.pythonhosted.org/packages/a6/08/583e1d8d589e80a702815f58daa317bd 469a32c7dc339394e2a0dc14318b/opencv_python-4.8.0.74-cp37-abi3-win_am d64.whl.metadata Downloading opencv_python-4.8.0.74-cp37-abi3-win_amd64.whl.metadata a (19 kB) Requirement already satisfied: numpy>=1.21.2 in c:\users\hp\appdata\</pre>
OpenCV	<pre>C:\Users\HP>pip install opencv-python Collecting opencv-python Obtaining dependency information for opencv-python from https://fi les.pythonhosted.org/packages/a6/08/583e1d8d589e80a702815f58daa317bd 469a32c7dc339394e2a0dc14318b/opencv_python-4.8.0.74-cp37-abi3-win_am d64.whl.metadata Downloading opencv_python-4.8.0.74-cp37-abi3-win_amd64.whl.metadata a (19 kB) Requirement already satisfied: numpy>=1.21.2 in c:\users\hp\appdata\</pre>

0.4 Listing Packages

To list all of the packages that are installed in your Python environment, you can use the following command:

```
" pip list "
```

This will output a list of all of the packages, along with their versions.

0.5 Conclusion

In this document, we have learned how to install Python packages using pip. Pip is a powerful tool that can be used to manage Python packages. By following the instructions in this document, you can install the Python packages that you need to create your Python applications.

0.6 Bibliography

* [1]Pip Documentation.(<https://docs.python.org/3/distutils/packageindex.html>)

* [2]Python Packaging User Guide(<https://packaging.python.org/>)