



Introduction to Modules and Packages

Modules

Functions can be used to divide a program into smaller, modular parts

What can we do when a program grows large, with many functions?

Another way to divide a large program into smaller parts (modularization)

Group code related to similar tasks together into
separate .py files, called modules

Example: merchandise ordering program, orders.py & inventory.py

Code in modules can be accessed by other files,
and even other programs, via **import**

Packages

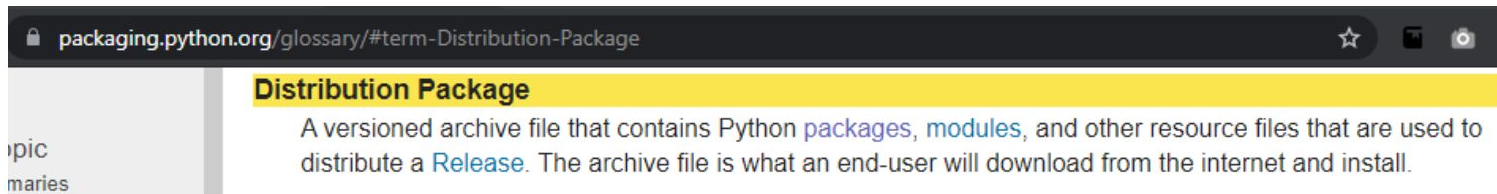
Collections of related modules in a folder structure

`__init__.py` is a special file that lets Python know this folder is a package

1-Fundamentals

```
|---> my_pkg
    |---> __init__.py
    |---> module1.py
    |---> module2.py
```

Distribution packages



Python Package Index (PyPI):
Public repository of Python distribution packages

Typically used with package installer pip

Similar purpose as NPM for JavaScript

Online git repositories such as GitHub also host
open-source packages for Python and other languages

