

Faker Module Concept

- Faker is a Python library that generates fake data. Fake data is often used for testing or filling databases with some dummy data. Faker is heavily inspired by PHP's Faker, Perl's Data::Faker, and by Ruby's Faker.

Setting up Faker:

- The package is installed with pip command.
C:\Users\Lenovo> pip install Faker
- Now we installed the Faker module in our machine.
- In addition, we install the Dumper, which provides nicer console output when dumping variables.
C:\Users\Lenovo> pip install Dumper

Faker generator

- The `faker.Faker()` creates and initializes a faker generator, which can generate data by accessing properties named after the type of data.
- Faker delegates the data generation to providers. The default provider uses the English locale. Faker supports other locales; they differ in level of completion.

Simple Faker

The following example is a simple demonstration of Faker.

simple.py

```
from faker import Faker
faker = Faker()
print(f'name: {faker.name()}')
print(f'address: {faker.address()}')
print(f'text: {faker.text()}')
```

The example outputs a fake name, address, and text.

Output:

name: Arthur Patton

address: 0638 Larsen Way
Tylermouth, CA 48344

text: Save general start bar. Become class both bank Mrs so myself.
Each difficult performance even. Total anyone develop her raise research both.
Laugh sport necessary tree. As during day up fall.

Faking Names:

In the second example, we can create fake data related to user names.

names.py

```
from faker import Faker
faker = Faker()
```

```
print(f'Name: {faker.name()}')
print(f'First name: {faker.first_name()}')
print(f'Last name: {faker.last_name()}')
print('-----')
print(f'Male name: {faker.name_male()}')
print(f'Female name: {faker.name_female()}')
```

The example creates fake full names, first names, last names of males and females.

Output:

Name: Tara Brown
First name: Stephanie
Last name: Martin

Male name: John Banks
Female name: Lacey Roberts

Faking Jobs

Jobs are generated with job.

jobs.py

```
from faker import Faker
faker = Faker()
for i in range(6):
    print(faker.job())
```

The example creates six fake jobs.

Output:

Town planner
Paediatric nurse
Geographical information systems officer
Water quality scientist
Engineer, maintenance
Designer, ceramics/pottery

Faking Numbers:

The Faker allows to generate random digits and integers.

fake_numbers.py

```
from faker import Faker
faker = Faker()
print(f'Random int: {faker.random_int()}')
print(f'Random int: {faker.random_int(0, 100)}')
print(f'Random digit: {faker.random_digit()}')
```

The example generates random digits and integers.

```
print(f'Random int: {faker.random_int(0, 100)}')
```

We can specify the bounds in the `random_int` method.

Output:

Random int: 5181

Random int: 91

Random digit: 9