# Modules

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#### What is a module?

Any reusable piece of code, in a separate file.

Usually contains variables, functions, classes.

#### How to find what modules are installed?

>>>help("modules")

# How to import a module?

>>> import math

>>> math.sin(90)

### How can I import only a function from module?

```
>>> from random import randint
>>> randint(3,30)
>>>
>>> from math import sin,cos,tan
>>> cos(90)
>> \sin(90)
```

#### How to alias a module?

```
>>> import random as rd
>>> rd.random()
>>>
>>> from math import factorial as f
>>> f(6)
```

#### How do I know what functions are in a module?

>>> import math

>>> dir(math)

## How can I get help on a function?

```
>>> import math
```

>>> help(math.sin)

# PYMOTW

#### Where are the modules installed?

lib folder in python installation directory (Windows)

/usr/lib/python on linux

>>> import sys

>>> sys.path

# pypi.org

#### How to install a 3rd party module?

pip install bottle

pip list

pip show bottle

pip uninstall bottle

# Where are 3rd party modules installed?

lib/site-packages