## Classes

This lesson introduces object-oriented programming using classes, attributes, and methods.

```
we'll cover the following ^
• Classes
```

## Classes #

In object-oriented programming (OOP), a class is a structure that allows you to group together a set of properties (called **attributes**) and functions (called **methods**) to manipulate those properties. Take the following class that defines a person with the name and age properties and the greet() method.

```
class Person:

def __init__(self, name, age): # class constructor
    self.name = name # class variable
    self.age = age # class variable

def greet(self): # class function to print a greeting
    print("Hello, my name is %s!" % self.name)
```

Most classes will need the constructor method (\_\_init\_\_) to initialize the class's attributes. In the above code snippet, the constructor of the class receives the person's name and age and stores that information in the class's instance (referenced by the self keyword). Finally, the greet() method prints the name of the person as stored in a specific class instance (object).

Here's how we can instantiate two objects:

```
class Person:

def __init__(self, name, age): # class constructor
    self.name = name # class variable
    self.age = age # class variable
```

