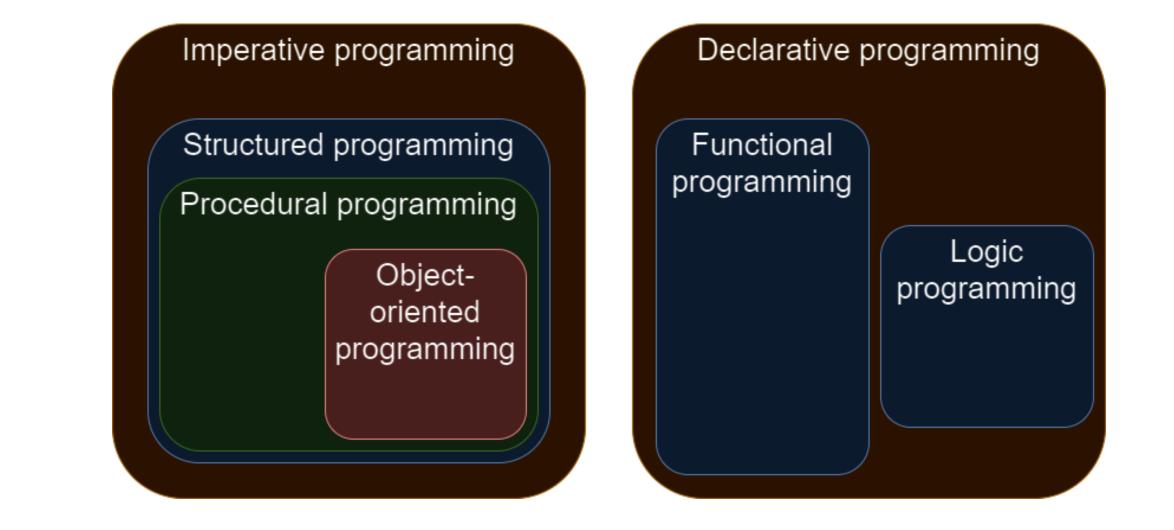


Programming for Social Scientists

Object-oriented programming

Johan A. Dornschneider-Elkink



Programming paradigms

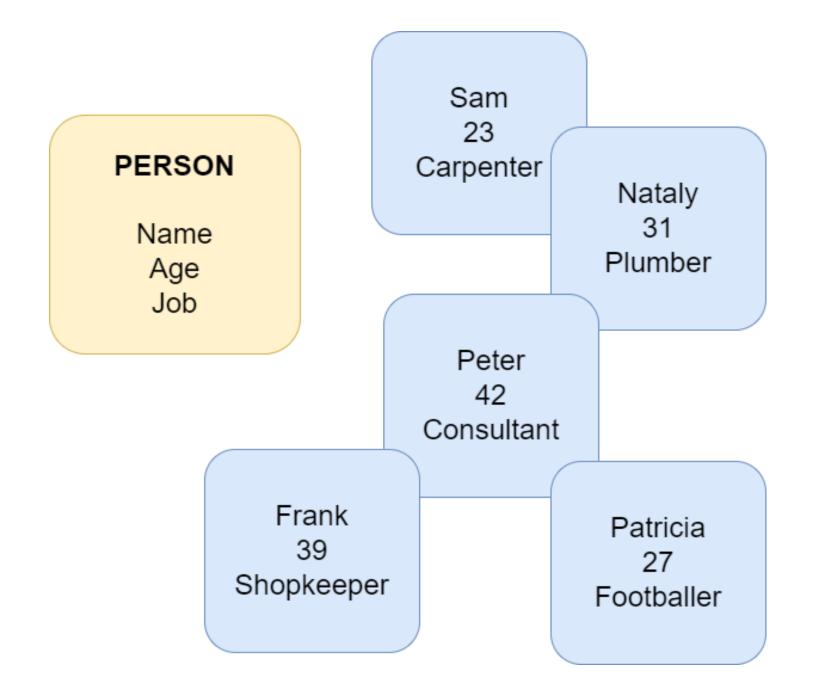


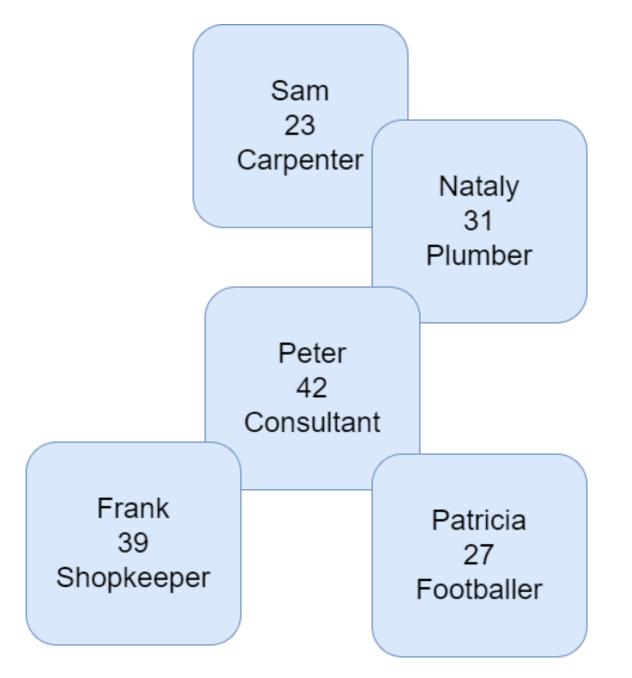
Class

Blueprint or template for userdefined data.

Defines data and functionality to be associated with each instance.

Does not yet reserve any memory space for data.





Object

Instance of a specific object, based on the class definition.

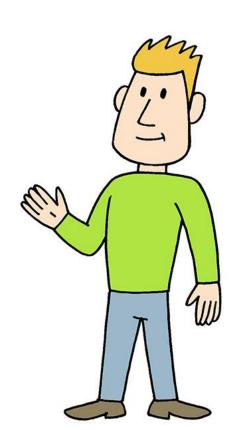
Reserves specific memory space for the data, as any other variable type. class Person:

```
def __init__(self, name, age):
    self.name = name
    self.age = age
```

Constructor

	Person
Name	
Age	
Print	

```
def print(self):
    print("%s is %d years old" % (self.name, self.age))
```



class Person:

def __init__(self, name, age):
 self.name = name
 self.age = age

```
def print(self):
    print("%s is %d years old" % (self.name, self.age))
```



Person	
Name	
Age	
Print	

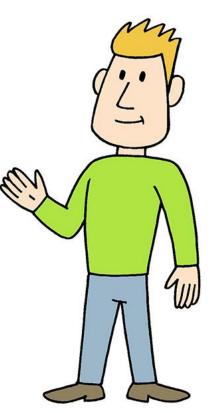
john = Person("John", 42)
peter = Person("Peter", 30)

john.print()

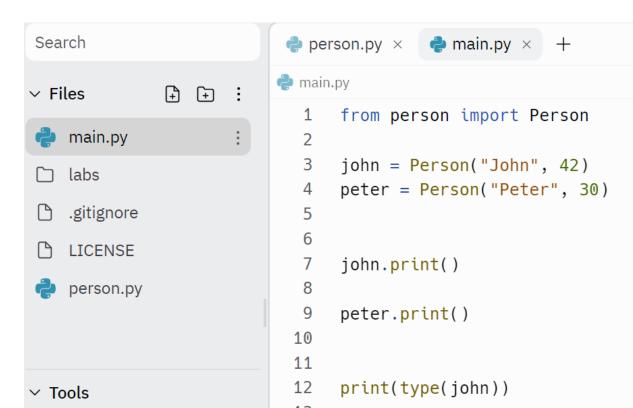
peter.print()

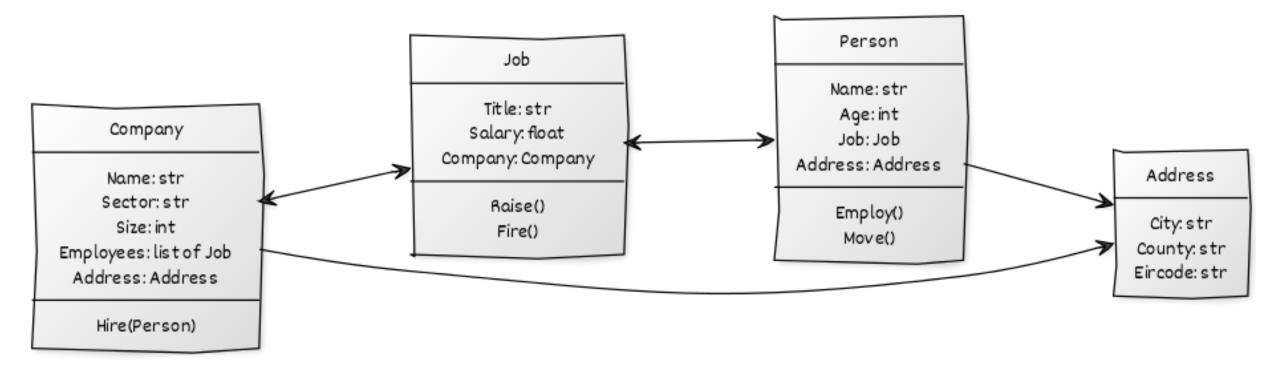
print(type(john))

- Creating objects



Search		🝦 person.py × 🝦 main.py × +
✓ Files	₽ F :	eperson.py
 main.py labs 		<pre>1 ~ class Person: 2 3 ~ definit(self, name, age): 4 self.name = name 5 calf.crs.crs.crs.</pre>
.gitignoreLICENSE		<pre>5 self.age = age 6 7 ~ def print(self):</pre>
👌 person.py	:	<pre>8 print("%s is %d years old" % (self.name, self.age)) 9</pre>





CREATED WITH YUML

American Political Science Review

Policy and the Dynamics of Poli MICHAEL LAVER New York Universe

This paper proposes a model that takes the competition into a multiparty environmen switch parties to increase their expectatio shifting affiliations of voters. Different algorithm, gator" (adapt party policy to the ideal policy positio that were rewarded; otherwise make random moves), 1 position of the largest party), and "Sticker" (never change of parties using different methods of adaptation are explored, experiments to the dynamics of a real party system, described in This paper reports first steps toward endogenizing key features o death of parties, internal party decision rules, and voter ideal point

Thinking about our simulation, what are some classes (types of objects) that come to mind?

> a series of *A time series.* cess, memory the birth and