

Lecture

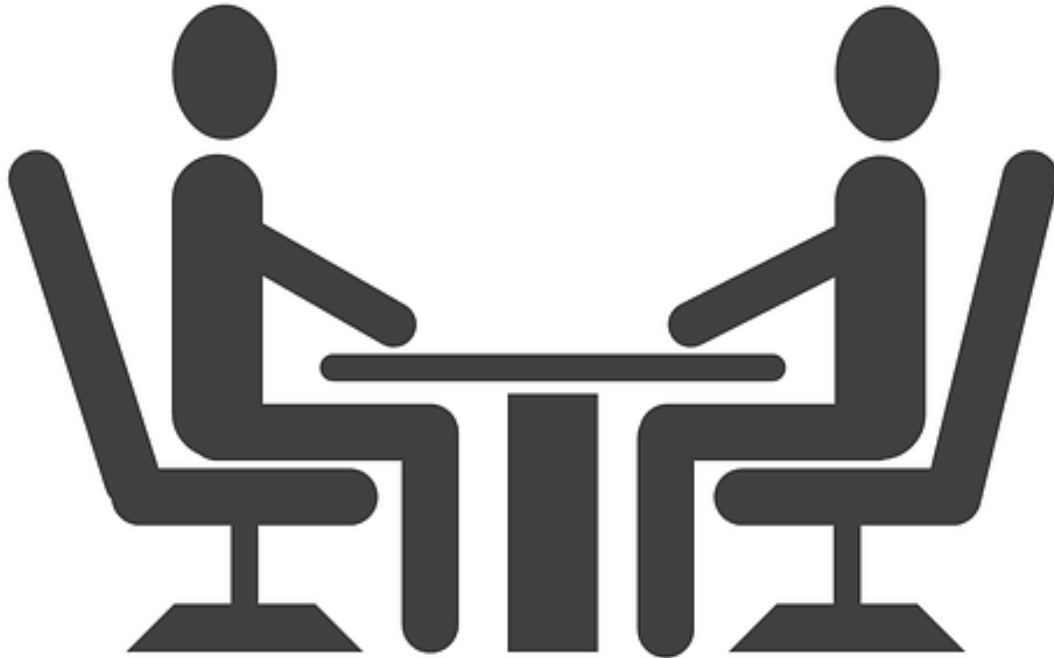
OO Analysis

Example





OO Analysis





OO Analysis

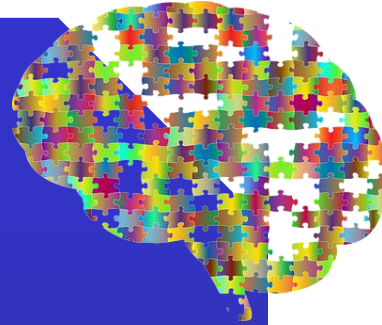




OO Analysis

- ♦ The shelter takes care of dogs, cats, parrots, lizards, snakes.
- ♦ There are 6 paid employees in the staff.
- ♦ The same 55 volunteers work in the shelter every week.
- ♦ 2 managers control the logistics of the shelter and the payroll.
- ♦ Donors are vital for the shelter, so the program should keep a record of them as well.

Think about... Animal Shelter





OO Analysis

- ♦ The shelter takes care of dogs, cats, parrots, lizards, snakes.
- ♦ There are 6 paid employees in the staff.
- ♦ The same 55 volunteers work in the shelter every week.
- ♦ 2 managers control the logistics of the shelter and the payroll.
- ♦ Donors are fundamental for the shelter, so the software should keep a record of them as well.



OO Analysis

- ◆ The shelter takes care of dogs, cats, parrots, lizards, snakes.
- ◆ There are 6 paid employees in the staff.
- ◆ The same 55 volunteers work in the shelter every week.
- ◆ 2 managers control the logistics of the shelter and the payroll.
- ◆ Donors are fundamental for the shelter, so the software should keep a record of them as well.



OO Analysis

◆ **Animals:**

- ◆ Dogs
- ◆ Cats
- ◆ Parrots
- ◆ Lizards
- ◆ Snakes

◆ **People:**

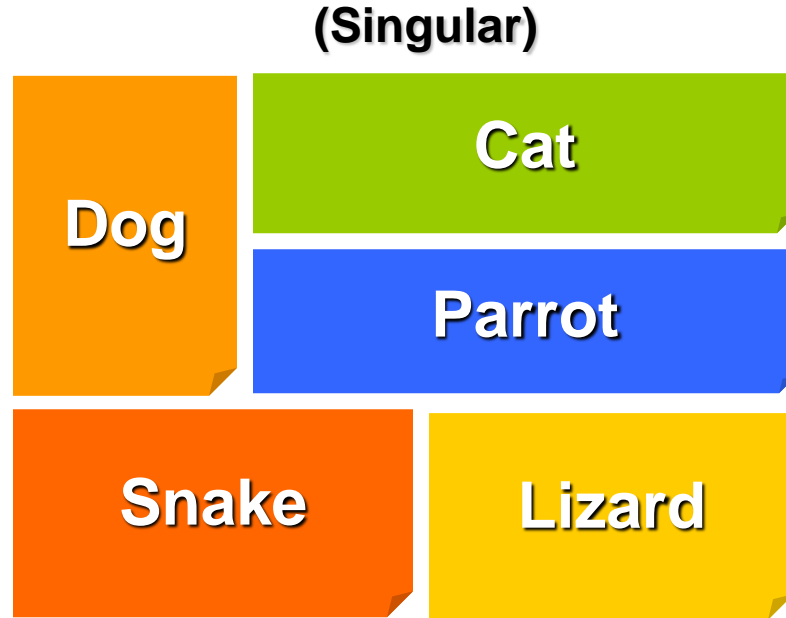
- ◆ Employees
- ◆ Volunteers
- ◆ Managers
- ◆ Contributors



OO Analysis

♦ Animals:

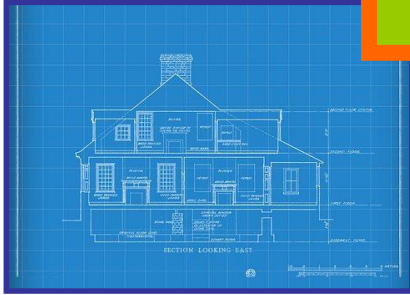
- ♦ Dogs
- ♦ Cats
- ♦ Parrots
- ♦ Lizards
- ♦ Snakes



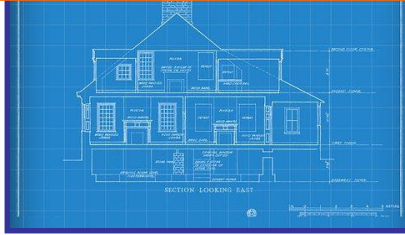


OO Analysis

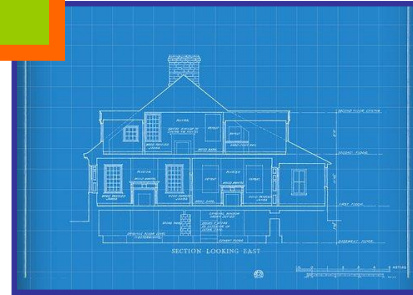
Classes



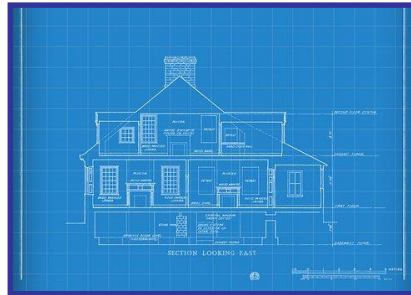
Dog



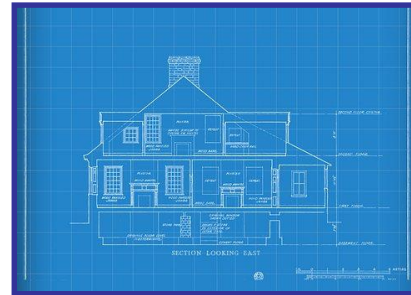
Cat



Parrot



Snake



Lizard



OO Analysis

◆ People:

- ◆ Employees
- ◆ Volunteers
- ◆ Managers
- ◆ Donors

(Singular)

Employee

Volunteer

Manager

Donor

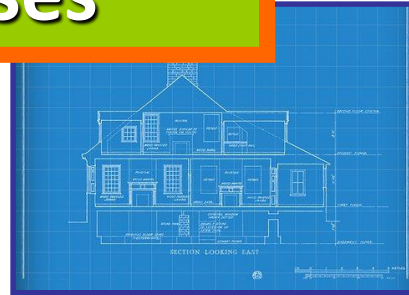


OO Analysis

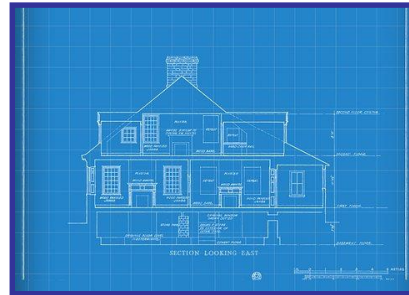
Classes



Employee



Volunteer



Manager



Donor



Class

Name

```
class Dog:
```

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



Class

```
class Dog:
```

Body

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





Class

```
class Dog:

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

    def display_name(self):
        print(self.name)
```



Class

```
class Dog:
```

Body

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





Time to Practice

