

Inheritance

Real Life

Mammals



Primates (Primate is a mammal)



Humans (Homo Sapiens)

Instance variables + methods

[warm-blooded, hair/fur, etc.]

Car Vehicle



Car

Truck

Train



SportsCar

SUV

Electric



Porsche

Polymorphism

list of cars

car

buggati

porsche

tesla

etc.

for x in listcars:

x.drive()

Inheritance

- ① Like ability to reuse any "code" that stays the same
- ② Add new features as necessary

- ③ Redefine ~~the~~ some methods that work differently in Porsche than a regular Car,

Example 1

employee

→ paid hourly

commissionemployee

→ in addition
fixed amount for
each sale.

this is defined by same

BASE CLASS

→ SUBCLASS (inherits from BASE CLASS)

SUBCLASS IS-A BASE CLASS

different than HAS-A relationship

when class HAS-A pygane rectangle.

```
class commissionemployee(employee):
```

→ indicates
inheritance