Lecture

Intro to Inheritance

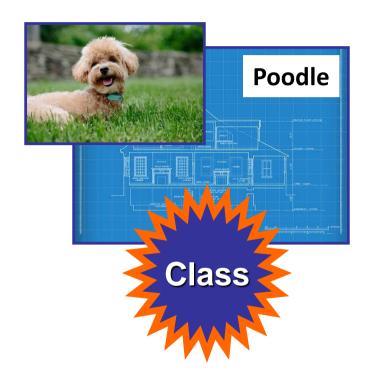




Abstraction

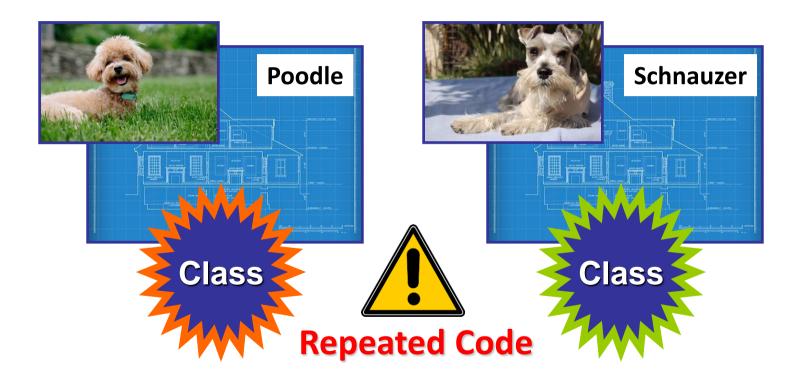




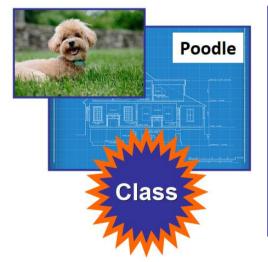












```
class Poodle:

def __init__(self, name, age, color, blood_type, vaccines=None):
    self._name = name
    self._age = age
    self._color = color
    self._blood_type = blood_type
    self._vaccines = vaccines

def poodle_introduction(self):
    print(f"Hi, my name is {self._name}. I'm a Poodle")
```



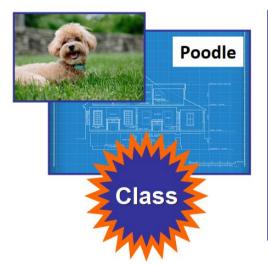


```
class Schnauzer:

def __init__(self, name, age, color, blood_type, vaccines=None):
    self._name = name
    self._age = age
    self._color = color
    self._blood_type = blood_type
    self._vaccines = vaccines

def schnauzer_introduction(self):
    print(f"Hi, my name is {self._name}. I'm a Schnauzer")
```





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class Poodle:

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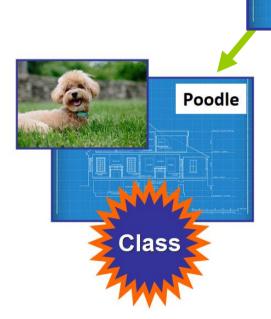
def schnauzer_introduction(self):
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```

Don't Repeat Yourself (DRY)

Poodles and Schnauzers are a type of

Poodles and Schnauzers are a type of Dog



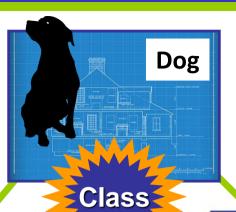




Dog





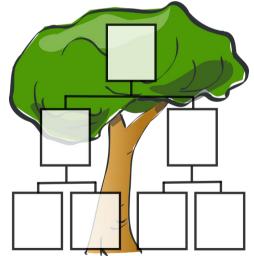


- More Abstract
- Reusable









- Reusability
- Avoid code duplication
- Extensibility
- Improved design











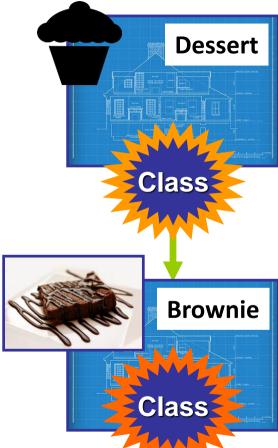




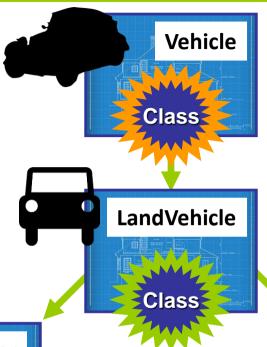
















is a type of





- More Abstract
- Reusable







Poodle is a type of Dog Schnauzer is a type of Dog











Brownie is a type of Dessert Ice Cream is a type of Dessert











Car is a type of Vehicle Truck is a type of Vehicle

is a type of



