

Object Oriented Programming

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1.1 Classes and objects

- **Abstract data type**
 - Stores some info
 - Designated functions to manipulate the info
 - for instance, for list: `append()`, `insert()`, `delete()`
- separate the private implementation from the public specification
- **Class**
 - template for a data type
 - how data is stored
 - how public functions manipulate data
- **Objects**
 - concrete instance of template

Initialising a class:

```
class Something:
    def __init__(self, param):
        self.param = param
    def do_something(self):
        print(f"Hello {self.param}")
```

Using this class:

```
obj = Something("world")  
obj.do_something()  
# Hello world
```