

1. The class is the definition of the object, an object is an instance of a class. A class specifies member functions and member variables that belong to an object. A class can have many instances.
2. A member variable is a variable that corresponds to an instance of an object. These exist inside an object as its state. Each instance of an object has independent member variables.
3. A member function is a function that is declared as a member of a class. A member function belongs to an object, and when it is called it has access to the internal state of an object.
4. Inheritance employs an IS-A relationship, while composition is a HAS-A relationship. Such as a child is a person, or a car has an engine.
5. A constructor is a special member function that is called to instantiate a class. The constructor is only called once during the lifetime of an object, and is responsible for initializing the state of an object.
6. The special function name is `def __init__(...):` and it is only called once during the lifetime of an object.