

Object Oriented Programming Keywords

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| Class | A template that describes the behaviours and characteristics of objects |
| Object | The realisation of a class |
| Instantiation | Creating objects from the class |
| Attributes | Defines the characteristics of a class |
| Methods | Defines the behaviours of an object |
| Constructor | A special method that is called when an object is created |
| Inheritance | Subclass extends the attributes and methods from a base class |
| Composition association | A class instance is created within a class and object cannot exist independently. |
| Aggregation association | Objects can exist independently, but there is ownership of one class by another. |
| Overriding | The method in a child class is implemented instead of a method of the same name in the parent class |
| Polymorphism | Allow methods to be called with different data types and different number of parameters |
| Encapsulation | Data and methods are considered together and data can only be accessed through the objects methods |
| Abstract method | Enforces implementation of the method in the subclass |
| Virtual method | Method that can be overridden in a subclass |
| Interface | A class that contains abstract methods |