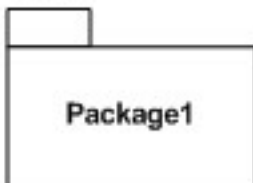


UML Cheatsheet

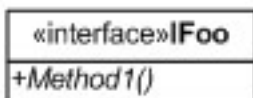
Shape



Description

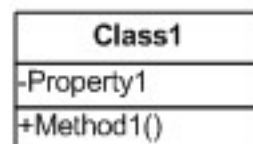
Package

A collection of interfaces and classes.



Interface

Microsoft guidelines specify that interfaces should start with I. This graphic can also sometimes be used as an abstract class.



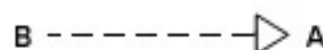
Class

Properties or attributes sit at the top, methods or operations at the bottom. + indicates public and # indicates protected.

These are both typically drawn vertically:



Inheritance - B inherits from A.
"is-a" relationship.



Generalization - B implements A,



Association - A and B call each other



One way Association.

A can call B's properties/methods, but not visa versa.



Aggregation

A "has-a" instance of B. B can survive if A is disposed.



Composition

A has an instance of B, B cannot exist without A.



A note

Some descriptive text attached to any item.

Associations and aggregation/composition can have *, 1 or n attached to either end of the relationship.