

Feature	Method Overloading	Method Overriding
Definition	Defining multiple methods with the same name but different parameters in the same class.	Redefining a method in a child class that is already present in the parent class.
Class Involvement	Happens within the same class.	Happens between parent and child classes (inheritance).
Parameters	Must be different (different number or type of parameters).	Must be the same as in the parent class.
Return Type	Can be the same or different.	Must be the same or covariant (subtype of the parent method's return type).
Access Modifier	Can be anything.	Cannot have a more restrictive modifier than the parent method.
Static Methods	Can be overloaded.	Cannot be overridden (but can be hidden).
Purpose	Improves code readability by allowing multiple versions of a method.	Provides specific implementation in a subclass.