

## Difference between Overloading and Overriding

Sr.No	Overloading	Overriding										
1	Methods having same name and different list of arguments, is called as Overloading	Methods having same name and same list of parameters is called Overriding										
2	Overloaded methods should be in same class	Overridden methods should be in different classes, whereas those classes should have parent-child relationship compulsory.										
3	Compile time polymorphism	Runtime polymorphism										
4	No check on Access modifiers	<div>We cannot reduce the visibility of child method. Whereas we can increase the visibility.</div> <div>Visibility Relation:</div> <table><tr><th>Parent</th><th>Child</th></tr><tr><td>Private</td><td>CE. Cannot override Private method</td></tr><tr><td>Default</td><td>Default, Public, Protected</td></tr><tr><td>Public</td><td>Public</td></tr><tr><td>Protected</td><td>protected, public</td></tr></table>	Parent	Child	Private	CE. Cannot override Private method	Default	Default, Public, Protected	Public	Public	Protected	protected, public
Parent	Child											
Private	CE. Cannot override Private method											
Default	Default, Public, Protected											
Public	Public											
Protected	protected, public											
5	No check on return type	Return type should be same. Else we will get CE: Incompatible return types										