

Java Access Modifiers

By Umesh Sir

Contact us 7758094241

Access Modifiers

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★ Real life example to understand access specifiers in JAVA?

The image shows a Facebook post by Raja Mamidi with the text "I can't really think of any better real life example than a FACEBOOK post to explain to understand access specifiers in JAVA". The post's privacy settings are open, showing options: Public (selected), Friends, Only Me, and Custom. Arrows point from these options to four text boxes explaining Java access specifiers.

1. PUBLIC Access Specifiers
[Any class can refer to the field or call the method]
Anyone can see this status if you make it public

3. DEFAULT Access Specifiers
Only your friends on facebook can see this status
[Using Default access specifiers, we can access class, method, or field which belongs to same package, but not from outside this package.]

2. PRIVATE Access Specifiers
Only you can see this status
[Only the current class will have access to the field or method.]

4. PROTECTED Access Specifiers
Only your friends and friends of friends on facebook can see this status.
[It can be accessed by the subclasses in other package or any class within the package of the protected members' class.]

When you update your Facebook Status, it gives you 4 options

1. If you make this status visible for Public, anyone can see this status on Internet (Anyone On or Off Facebook). [Public Access Specifiers]
2. If you make this status visible "only for me". No one can see this status except you. [Private Access Specifiers]
3. If you make this status visible for Friends or Friends of friends, then your status will be only visible for your friends and your friends friends. Not everyone presents on Facebook or Internet. [Protected Access Specifiers]
4. If you make this status visible for "Friends", then your status will be only visible for your Friends. Not your friends friends or everyone presents on Facebook. [Default Access Specifiers]

★ Difference between access modifiers or access specifiers?

★ There is no difference between access specifier and access modifier in Java. They both mean the same. Access modifier is the new and official term used instead of access specifier. Java provides four access modifiers to set access levels for classes, variables, methods and constructors.

★ What is mean by Access Modifiers?

★ Java provides access modifier to set access level for Classes, Variables, Methods and Constructors.

★ Two Type of Access Modifiers?

- ★ Access modifiers :- Public, Default, Private, Protected
- ★ Non-access modifiers :- static, final, abstract, synchronized, transient, volatile, native

★ Public and default?

- ★ Public: The access level of a public modifier is everywhere. It can be accessed from within the class, outside the class, within the package and outside the package.
- ★ Default: The access level of a default modifier is only within the package. It cannot be accessed from outside the package. If you do not specify any access level, it will be the default.

★ Protected and Private?

- ★ Protected: The access level of a protected modifier is within the package and outside the package through child class. If you do not make the child class, it cannot be accessed from outside the package.
- ★ Private: The access level of a private modifier is only within the class. It cannot be accessed from outside the class.

Thank you

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