

# Java for beginners

## Access modifiers



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## Agenda

- ① Access Modifiers
- ② Access Modifier on class
- ③ Access Modifier on members

## Access Modifiers

Java supports four categories of accessibility rules

- private
- protected
- public
- default (not keyword)  
(absence of private, protected & public)

Modifiers can be used for class, and members.

## Class

- There can be only two possibilities, either class is a public class or just a class which means it is of default type.
- There can be only one public class in a single java file.
- The name of the java file must be the same as the name of the public class.

- . Only public class can be accessed directly from outside the package.

# Members

Package P1

P \* A1

private  
\* default  
protected  
public

P A2

private  
\* default  
protected  
public

A3

private  
\* default  
protected  
public

package P2

B1

private  
\* default  
protected  
public

P B2

private  
\* default  
protected  
public

B3

private  
\* default  
protected  
public

**private** members cannot be accessed from outside the class body.

**default** members are accessible only from the classes of same package.

**protected** members are accessed from any class of the same package and subclasses of any package.

**public** members are accessible from any class of any package