

Modifiers (Continued)

static Non-Access Modifier

- Java classes cannot be specified with 'static' non-access modifier - Demonstrate
- Variables declared directly inside the class but outside the methods and are specified with 'static' modifier are known as static variables
- Memory allocated to the static variables is different from the memory allocated to the instance variables - view [here](#)
- static variables need to be accessed with the help of Class name, as they belong to the Class memory - View [here](#)
- static variables are generally used to store common data, where as Object variables/Instance variables are used to store Object specific data.
 - wheels variable can be used as a static variable/class level variable as it has common data i.e. wheels count is 4 for all the cars in the market
 - Where as cost variable cannot be used as a static variable as its value changes from car to car, hence we use it as an Object variable/Instance variable.
- static can also be used with methods
- static can only access static stuff
 - You have to create object to overcome this

final Non-Access Modifier

- The value of the variable cannot be changed on specifying it with final non-access modifier - Demonstrate [here](#)
- final modifier specified classes cannot be inherited/extended by other classes - Demonstrate [here](#)
- final modifier specified methods in a class cannot be overridden by its sub-classes - Demonstrate [here](#)

abstract Non-Access Modifier

- variables cannot be specified with 'abstract' non-access modifier - Demonstrate
 - On specifying a method with abstract modifier, we can just declare the method without implementing it - Demonstrate [here](#)
 - Classes having at-least one abstract specified method must be specified as abstract
 - Sub-Class inheriting the Super-Class needs to implement the abstract specified methods in Super-Class - Demonstrate [here](#)
 - Purpose of abstract methods - Used when the super-class don't have to implement everything, and when the sub-classes inheriting the super-class need to implement them.
 - Objects can't be created for abstract classes, we have to create a Sub-Class and access its variables/methods using Sub-Class object reference - Demonstrate [here](#)
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