**2.4 Java keywords :-**

|  |
| --- |
| * In the [Java programming language](http://en.wikipedia.org/wiki/Java_(programming_language)), a **keyword** is one of **50** [reserved words](http://en.wikipedia.org/wiki/Reserved_word)[[1]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200520-0) which have a predefined meaning in the language; because of this, programmers cannot use keywords as names for [variables](http://en.wikipedia.org/wiki/Variable_(programming)), [methods](http://en.wikipedia.org/wiki/Method_(computer_science)), [classes](http://en.wikipedia.org/wiki/Class_(computer_science)), or as any other [identifier](http://en.wikipedia.org/wiki/Identifier).[[2]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-keywords-1) Due to their special functions in the language, most [integrated development environments](http://en.wikipedia.org/wiki/Integrated_development_environment) for Java use [syntax highlighting](http://en.wikipedia.org/wiki/Syntax_highlighting) to display keywords in a different color for easy identification. |

**[**[**edit**](http://en.wikipedia.org/w/index.php?title=List_of_Java_keywords&action=edit&section=1)**] List**

The following is a list of the keywords in Java, along with brief descriptions of their functions:[[2]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-keywords-1)

[abstract](http://en.wikipedia.org/wiki/Abstract_class)

The abstract keyword is used to declare a class or method to be [abstract](http://en.wikipedia.org/wiki/Abstract_type)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2). An abstract method has no implementation; all classes containing abstract methods must themselves be abstract, although not all abstract classes have abstract methods. [Objects](http://en.wikipedia.org/wiki/Object_(computer_science)) of a class which is abstract cannot be [instantiated](http://en.wikipedia.org/wiki/Object_(computer_science)), but can be [extended](http://en.wikipedia.org/wiki/Inheritance_(computer_science)) by other classes. All [subclasses](http://en.wikipedia.org/wiki/Subclass_(computer_science)) of an abstract class must either provide implementations for all abstract methods, or must also be abstract.[[4]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-abstract-3)

[assert](http://en.wikipedia.org/wiki/Assertion_(computing))

The assert keyword, which was added in [J2SE 1.4](http://en.wikipedia.org/wiki/J2SE_1.4)[[2]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-keywords-1)[[1]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200520-0), is used to make an [assertion](http://en.wikipedia.org/wiki/Assertion_(computing))—a statement which the programmer believes is always true at that point in the program. If assertions are enabled when the program is run and it turns out that an assertion is false, an [AssertionError](http://download.oracle.com/javase/7/docs/api/java/lang/AssertionError.html) is thrown and the program terminates. This keyword is intended to aid in [debugging](http://en.wikipedia.org/wiki/Debugging)[[5]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-assert-4)[[6]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200560-64-5).

[boolean](http://en.wikipedia.org/wiki/Boolean_datatype)

The boolean keyword is used to declare a [field](http://en.wikipedia.org/wiki/Field_(computer_science)) that can store a [boolean value](http://en.wikipedia.org/wiki/Boolean_datatype); that is, either true or false[[7]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-primitive-6)[[8]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200522-7). This keyword is also used to declare that a method returns a value of type boolean[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-return-8)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2).

[break](http://en.wikipedia.org/wiki/Switch_statement)

Used to resume program execution at the statement immediately following the current enclosing block or statement. If followed by a [label](http://en.wikipedia.org/wiki/Label_(programming_language)), the program resumes execution at the statement immediately following the enclosing labeled statement or block.

[byte](http://en.wikipedia.org/wiki/Byte)

The byte keyword is used to declare a field that can store an 8-[bit](http://en.wikipedia.org/wiki/Bit) signed [two's complement](http://en.wikipedia.org/wiki/Two%27s_complement) integer.[[7]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-primitive-6)[[8]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200522-7) This keyword is also used to declare that a method returns a value of type byte[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-return-8)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2).

[case](http://en.wikipedia.org/wiki/Switch_statement)

The case keyword is used to create individual cases in a [switch statement](http://en.wikipedia.org/wiki/Switch_statement); see [*switch*](http://en.wikipedia.org/wiki/List_of_Java_keywords#switch)[[10]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-switch-9)[[11]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200546-48-10).

[catch](http://en.wikipedia.org/wiki/Exception_handling_syntax#Java)

Defines an [exception handler](http://en.wikipedia.org/wiki/Exception_handler)—a group of statements that are executed if an exception is thrown in the block defined by a preceding try keyword. The code is executed only if the class of the thrown exception is assignment compatible with the exception class declared by the catch clause.

[char](http://en.wikipedia.org/wiki/Character_(computing))

The char keyword is used to declare a field that can store a 16-bit [Unicode](http://en.wikipedia.org/wiki/Unicode) character[[7]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-primitive-6)[[8]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200522-7). This keyword is also used to declare that a method returns a value of type char[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-return-8)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2).

[class](http://en.wikipedia.org/wiki/Class_(computer_science)#Java)

A type that defines the implementation of a particular kind of object. A class definition defines [instance](http://en.wikipedia.org/wiki/Object_(computer_science)) and class fields, [methods](http://en.wikipedia.org/wiki/Method_(computer_science)), and [inner classes](http://en.wikipedia.org/wiki/Inner_class) as well as specifying the [interfaces](http://en.wikipedia.org/wiki/Interface_(computer_science)) the class implements and the immediate [superclass](http://en.wikipedia.org/wiki/Superclass_(computer_science)) of the class. If the superclass is not explicitly specified, the superclass is implicitly [Object](http://download.oracle.com/javase/7/docs/api/java/lang/Object.html).

[const](http://en.wikipedia.org/wiki/Constant_(programming))

Although reserved as a keyword in Java, const is not used and has no function[[2]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-keywords-1)[[1]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200520-0).

[continue](http://en.wikipedia.org/wiki/Continue_(Java))

Used to resume program execution at the end of the current loop body. If followed by a label, continue resumes execution at the end of the enclosing labeled loop body.

[default](http://en.wikipedia.org/wiki/Switch_statement)

The default can optionally be used in a [switch statement](http://en.wikipedia.org/wiki/Switch_statement) to label a block of statements to be executed if no case matches the specified value; see [*switch*](http://en.wikipedia.org/wiki/List_of_Java_keywords#switch)[[10]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-switch-9)[[11]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200546-48-10).

[do](http://en.wikipedia.org/wiki/Do_while_loop)

The do keyword is used in conjunction with [while](http://en.wikipedia.org/wiki/List_of_Java_keywords#while) to create a [do-while loop](http://en.wikipedia.org/wiki/Do-while_loop), which executes a block of statements associated with the loop and then tests a boolean expression associated with the while. If the expression evaluates to true, the block is executed again; this continues until the expression evaluates to false[[12]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-do-while-11)[[13]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200548-49-12).

[double](http://en.wikipedia.org/wiki/Double_precision)

The double keyword is used to declare a field that can hold a 64-bit [double precision](http://en.wikipedia.org/wiki/Double_precision) [IEEE 754](http://en.wikipedia.org/wiki/IEEE_754) [floating-point number](http://en.wikipedia.org/wiki/Floating-point_number).[[7]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-primitive-6)[[8]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200522-7) This keyword is also used to declare that a method returns a value of type double[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-return-8)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2).

[else](http://en.wikipedia.org/wiki/Conditional_(programming))

The else keyword is used in conjunction with [if](http://en.wikipedia.org/wiki/List_of_Java_keywords#if) to create an [if-else statement](http://en.wikipedia.org/wiki/Conditional_(programming)), which tests a [boolean expression](http://en.wikipedia.org/wiki/Boolean_expression); if the expression evaluates to true, the block of statements associated with the if are evaluated; if it evaluates to false, the block of statements associated with the else are evaluated[[14]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-if-else-13)[[15]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200544-46-14).

[enum](http://en.wikipedia.org/wiki/Enumerated_type) (as of J2SE 5.0)

A Java keyword used to declare an [enumerated type](http://en.wikipedia.org/wiki/Enumerated_type). Enumerations extend the base class [Enum](http://download.oracle.com/javase/7/docs/api/java/lang/Enum.html).

[extends](http://en.wikipedia.org/wiki/Inheritance_(object-oriented_programming))

Used in a class declaration to specify the superclass; used in an interface declaration to specify one or more superinterfaces. Class X extends class Y to add functionality, either by adding fields or methods to class Y, or by overriding methods of class Y. An interface Z extends one or more interfaces by adding methods. Class X is said to be a subclass of class Y; Interface Z is said to be a subinterface of the interfaces it extends.

Also used to specify an upper bound on a type parameter in Generics.

[final](http://en.wikipedia.org/wiki/Final_(Java))

Define an entity once that cannot be changed nor derived from later. More specifically: a final class cannot be subclassed, a final method cannot be overridden, and a final variable can occur at most once as a left-hand expression. All methods in a final class are implicitly final.

[finally](http://en.wikipedia.org/wiki/Exception_handling_syntax#Java)

Used to define a block of statements for a block defined previously by the try keyword. The finally block is executed after execution exits the try block and any associated catch clauses regardless of whether an exception was thrown or caught, or execution left method in the middle of the try or catch blocks using the return keyword.

[float](http://en.wikipedia.org/wiki/Single_precision)

The float keyword is used to declare a field that can hold a 32-bit [single precision](http://en.wikipedia.org/wiki/Single_precision) IEEE 754 floating-point number.[[7]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-primitive-6)[[8]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200522-7) This keyword is also used to declare that a method returns a value of type float[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-return-8)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2).

[for](http://en.wikipedia.org/wiki/For_loop)

The for keyword is used to create a [for loop](http://en.wikipedia.org/wiki/For_loop), which specifies a variable initialization, a [boolean expression](http://en.wikipedia.org/wiki/Boolean_expression), and an incrementation. The variable initialization is performed first, and then the boolean expression is evaluated. If the expression evaluates to true, the block of statements associated with the loop are executed, and then the incrementation is performed. The boolean expression is then evaluated again; this continues until the expression evaluates to false.[[16]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-for-15)

As of [J2SE 5.0](http://en.wikipedia.org/wiki/J2SE_5.0), the for keyword can also be used to create a so-called "[enhanced for loop](http://en.wikipedia.org/wiki/Foreach)"[[17]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200550-54-16), which specifies an [array](http://en.wikipedia.org/wiki/Array_data_type) or [Iterable](http://download.oracle.com/javase/7/docs/api/java/lang/Iterable.html) object; each iteration of the loop executes the associated block of statements using a different element in the array or Iterable.[[16]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-for-15)

[goto](http://en.wikipedia.org/wiki/GOTO)

Although reserved as a keyword in Java, goto is not used and has no function[[2]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-keywords-1)[[1]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200520-0).

[if](http://en.wikipedia.org/wiki/If_statement)

The if keyword is used to create an [if statement](http://en.wikipedia.org/wiki/If_statement), which tests a [boolean expression](http://en.wikipedia.org/wiki/Boolean_expression); if the expression evaluates to true, the block of statements associated with the if statement is executed. This keyword can also be used to create an [if-else statement](http://en.wikipedia.org/wiki/Conditional_(programming)); see [*else*](http://en.wikipedia.org/wiki/List_of_Java_keywords#else)[[14]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-if-else-13)[[15]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200544-46-14).

implements

Included in a class declaration to specify one or more [interfaces](http://en.wikipedia.org/wiki/Interface_(Java)) that are implemented by the current class. A class inherits the types and abstract methods declared by the interfaces.

import

Used at the beginning of a [source file](http://en.wikipedia.org/wiki/Source_file) to specify classes or entire [Java packages](http://en.wikipedia.org/wiki/Java_package) to be referred to later without including their package names in the reference. Since J2SE 5.0, import statements can import static members of a class.

instanceof

A [binary operator](http://en.wikipedia.org/wiki/Operator_(programming)) that takes an object reference as its first operand and a class or interface as its second operand and produces a boolean result. The instanceof operator evaluates to true if and only if the runtime type of the object is assignment compatible with the class or interface.

[int](http://en.wikipedia.org/wiki/Integer_(computer_science))

The int keyword is used to declare a field that can hold a 32-bit signed two's complement integer[[7]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-primitive-6)[[8]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200522-7). This keyword is also used to declare that a method returns a value of type int[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-return-8)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2).

[interface](http://en.wikipedia.org/wiki/Interface_(Java))

Used to declare a special type of class that only contains abstract methods, constant (static final) fields and static interfaces. It can later be implemented by classes that declare the interface with the implements keyword.

[long](http://en.wikipedia.org/wiki/Long_integer)

The long keyword is used to declare a field that can hold a 64-bit signed two's complement integer[[7]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-primitive-6)[[8]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200522-7). This keyword is also used to declare that a method returns a value of type long[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-return-8)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2).

native

Used in method declarations to specify that the method is not implemented in the same Java source file, but rather in another language[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-FOOTNOTEFlanagan200566-67-2).

[new](http://en.wikipedia.org/wiki/Object_lifetime#Java)

Used to create an instance of a class or array/an object.

[package](http://en.wikipedia.org/wiki/Java_package)

A group of types. Packages are declared with the package keyword.

[private](http://en.wikibooks.org/wiki/Java_Programming/Classes,_Objects_and_Types)

The private keyword is used in the declaration of a method, field, or inner class; private members can only be accessed by other members of their own class.[[18]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-access-17)

[protected](http://en.wikibooks.org/wiki/Java_Programming/Classes,_Objects_and_Types)

The protected keyword is used in the declaration of a method, field, or inner class; protected members can only be accessed by members of their own class, that class's [subclasses](http://en.wikipedia.org/wiki/Inheritance_(object-oriented_programming)) or classes from the same [package](http://en.wikipedia.org/wiki/Java_package).[[18]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-access-17)

[public](http://en.wikibooks.org/wiki/Java_Programming/Classes,_Objects_and_Types)

The public keyword is used in the declaration of a class, method, or field; public classes, methods, and fields can be accessed by the members of any class.[[18]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-access-17)

[return](http://en.wikipedia.org/wiki/Method_(computer_science))

Used to finish the execution of a method. It can be followed by a value required by the method definition that is returned to the caller.

[short](http://en.wikipedia.org/wiki/Short_integer)

The short keyword is used to declare a field that can hold a 16-bit signed two's complement integer[[7]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-primitive-6)[[8]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200522-7). This keyword is also used to declare that a method returns a value of type short[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-return-8)[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200566-67-2).

[static](http://en.wikipedia.org/wiki/Static_variable)

Used to declare a field, method or inner class as a class field. Classes maintain one copy of class fields regardless of how many instances exist of that class. static also is used to define a method as a class method. Class methods are [bound](http://en.wikipedia.org/wiki/Name_binding) to the class instead of to a specific instance, and can only operate on class fields. (Classes and interfaces declared as static members of another class or interface are actually top-level classes and are *not* inner classes.)

[strictfp](http://en.wikipedia.org/wiki/Strictfp) (as of J2SE 1.2)

A Java keyword used to restrict the precision and rounding of floating point calculations to ensure portability[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-FOOTNOTEFlanagan200566-67-2).

[super](http://en.wikipedia.org/wiki/Inheritance_(object-oriented_programming))

Used to access members of a class inherited by the class in which it appears. Allows a subclass to access [overridden](http://en.wikipedia.org/wiki/Method_overriding_(programming)) methods and hidden members of its superclass. The super keyword is also used to forward a call from a constructor to a constructor in the superclass.

Also used to specify a lower bound on a type parameter in Generics.

[switch](http://en.wikipedia.org/wiki/Switch_statement)

The switch keyword is used in conjunction with [case](http://en.wikipedia.org/wiki/List_of_Java_keywords#case) and [default](http://en.wikipedia.org/wiki/List_of_Java_keywords#default) to create a [switch statement](http://en.wikipedia.org/wiki/Switch_statement), which evaluates a variable, matches its value to a specific case, and executes the block of statements associated with that case. If no case matches the value, the optional block labelled by default is executed, if included[[10]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-switch-9)[[11]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-FOOTNOTEFlanagan200546-48-10).

[synchronized](http://en.wikipedia.org/wiki/Mutual_exclusion)

Used in the declaration of a method or code block to acquire the [mutex](http://en.wikipedia.org/wiki/Mutex) lock for an object while the current [thread](http://en.wikipedia.org/wiki/Thread_(computer_science)) executes the code[[3]](http://en.wikipedia.org/wiki/List_of_Java_keywords" \l "cite_note-FOOTNOTEFlanagan200566-67-2). For static methods, the object locked is the class' Class. Guarantees that at most one thread at a time operating on the same object executes that code. The mutex lock is automatically released when execution exits the synchronized code. Fields, classes and interfaces cannot be declared as *synchronized*.

[this](http://en.wikipedia.org/wiki/This_(Java))

Used to represent an instance of the class in which it appears. this can be used to access class members and as a reference to the current instance. The this keyword is also used to forward a call from one constructor in a class to another constructor in the same class.

[throw](http://en.wikipedia.org/wiki/Exception_handling_syntax#Java)

Causes the declared exception instance to be thrown. This causes execution to continue with the first enclosing exception handler declared by the catch keyword to handle an assignment compatible exception type. If no such exception handler is found in the current method, then the method returns and the process is repeated in the calling method. If no exception handler is found in any method call on the stack, then the exception is passed to the thread's uncaught exception handler.

[throws](http://en.wikipedia.org/wiki/Exception_handling_syntax#Java)

Used in method declarations to specify which exceptions are not handled within the method but rather passed to the next higher level of the program. All uncaught exceptions in a method that are not instances of RuntimeException must be declared using the throws keyword.

[transient](http://en.wikipedia.org/wiki/Transient_(computer_programming))

Declares that an instance field is not part of the default [serialized](http://en.wikipedia.org/wiki/Serialization) form of an object. When an object is serialized, only the values of its non-transient instance fields are included in the default serial representation. When an object is deserialized, transient fields are initialized only to their default value. If the default form is not used, e.g. when a *serialPersistentFields* table is declared in the class hierarchy, all transient keywords are ignored.[[19]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-serialSpec-18)[[20]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-transient1-19)

[try](http://en.wikipedia.org/wiki/Exception_handling_syntax#Java)

Defines a block of statements that have exception handling. If an exception is thrown inside the try block, an optional catch block can handle declared exception types. Also, an optional finally block can be declared that will be executed when execution exits the try block and catch clauses, regardless of whether an exception is thrown or not. A try block must have at least one catch clause or a finally block.

[void](http://en.wikipedia.org/wiki/Void_return_type)

The void keyword is used to declare that a method does not return any value.[[9]](http://en.wikipedia.org/wiki/List_of_Java_keywords#cite_note-return-8)

[volatile](http://en.wikipedia.org/wiki/Volatile_variable)

Used in field declarations to specify that the variable is modified [asynchronously](http://en.wikipedia.org/wiki/Asynchronous) by concurrently running threads. Methods, classes and interfaces thus cannot be declared *volatile*.

[while](http://en.wikipedia.org/wiki/Do_while_loop)

The while keyword is used to create a [while loop](http://en.wikipedia.org/wiki/While_loop), which tests a [boolean expression](http://en.wikipedia.org/wiki/Boolean_expression) and executes the block of statements associated with the loop if the expression evaluates to true; this continues until the expression evaluates to false. Thi