DZone Refcardz

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Core Java

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ABOUT CORE JAVA

This refcard gives you an overview of key aspects of the Java language and cheat sheets on the core library (formatted output, collections, regular expressions, logging, properties) as well as the most commonly used tools (`javac, java, jar`).

JAVA KEYWORDS

Keyword	Description	Example
abstract	an abstract class or method	```abstract class Writable {` ` public abstract void write(Writer out);` ` public void save(String filename) { ... }` `}```
assert	with assertions enabled, throws an error if condition not fulfilled	`assert param != null;` **Note:** Run with `-ea` to enable assertions
boolean	the Boolean type with values true and false	`boolean more = false;`
break	breaks out of a switch or loop	```while ((ch = in.next()) != -1) {` ` if (ch == '\n') break;` ` process(ch);` `}``` **Note:** Also see `switch`

byte	the 8-bit integer type	`byte b = -1; // Not the same as 0xFF`
		Note: Be careful with bytes < 0

case	a case of a switch	see `switch`
catch	the clause of a try block catching an exception	see `try`
char	the Unicode character type	`char input = 'Q';`
class	defines a class type	```class Person {` ` private String name;` ` public Person(String aName) {` ` name = aName;` ` }` ` public void print() {` ` System.out.println(name);` ` }` `}```
const	not used	
continue	continues at the end of a loop	```while ((ch = in.next()) != -1) {` ` if (ch == ' ') continue;` ` process(ch);` `}```
default	the default clause of a switch	see `switch`
do	the top of a do/while loop	```do {` ` ch = in.next();` `} while (ch == ' ');```
double	the double-precision floating-number type	`double oneHalf = 0.5;`
else	the else clause of an if statement	see `if`
enum	an enumerated type	`enum Mood { SAD, HAPPY };`
extends	defines the parent class of a class	```class Student extends Person {` ` private int id;` ` public Student(String name, int anId) { ... }` ` public void print() { ... }` `}```
final	a constant, or a class or method that cannot be overridden	`public static final int DEFAULT_ID = 0;`

Java Keywords, continued

Keyword	Description	Example
finally	the part of a try block that is always executed	see `try`
float	the single-precision floating-point type	`float oneHalf = 0.5F;`
for	a loop type	```for (int i = 10; i >= 0; i--)` ` System.out.println(i);` `for (String s : line.split("\\s+"))` ` System.out.println(s);``` **Note:** In the "generalized" for loop, the expression after the : must be an array or an `Iterable`
goto	not used	
if	a conditional statement	```if (input == 'Q')` ` System.exit(0);` `else` ` more = true;```
implements	defines the interface(s) that a class implements	```class Student` ` implements Printable {` ` ...` `}```
import	imports a package	`import java.util.ArrayList;` `import com.dzone.refcardz.*;`
instanceof	tests if an object is an instance of a class	```if (fred instanceof Student)` ` value = ((Student) fred).getId();``` **Note:** null instanceof T is always false
int	the 32-bit integer type	`int value = 0;`
interface	an abstract type with methods that a class can implement	```interface Printable {` ` void print();` `}```
long	the 64-bit long integer type	`long worldPopulation = 6710044745L;`
native	a method implemented by the host system	
new	allocates a new object or array	`Person fred = new Person("Fred");`
null	a null reference	`Person optional = null;`
package	a package of classes	`package com.dzone.refcardz;`
private	a feature that is accessible only by methods of this class	see `class`
protected	a feature that is accessible only by methods of this class, its children, and other classes in the same package	```class Student {` ` protected int id;` ` ...` `}```