The Java Cheat Sheet

Everything You Need to Know About Java

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Java's *printf()* is a method that is used for formatting data output and is a combination of *String.format()* and *out.print()*. The types of formatting include:

- o flags
- o width
- o precision
- conversions

General Equation: %[flag][width][.precision][conversion]

<u>Flags:</u> plus(+) or minus(-) sign, zero-padding, comma delimiter, and left justify.

Width: minimum amount of spaces data takes up.

<u>Precision:</u> amount of digits after decimal (only applies to floating points).

Conversion: decimal integer(d), floating point(f), char(c), String(s), boolean(b), and hashcode(h).

<u>Decimal Integer</u> – byte, short, int, long

Floating Point - float, double

[Example] (http://pastebin.com/i9jzE1Sc) [Example]

(http://www.java2s.com/Tutorial/Java/0120 Development/Demonstrateprintf.htm)

[Resource] (http://alvinalexander.com/programming/printf-format-cheat-sheet) [Resource]

(http://www.java2s.com/Tutorial/Java/0120 Development/0200 printf-Method.htm)

[Resource]

(http://web.cerritos.edu/jwilson/SitePages/java_language_resources/Java_printf_method_quick_reference.pdf)

[Resource] (http://sharkysoft.com/archive/printf/docs/javadocs/lava/clib/stdio/doc-files/specification.htm)

General	
%с	character
%C	converts to uppercase character (if not already)
%d	decimal integer (base 10)
%e	scientific notation

-	·
%E	scientific notation with a capital 'E'
%f	floating-point number
%i	integer (base 10)
%b	converts to boolean
%В	converts to uppercase boolean
%0	octal number (base 8)
%s	a string of characters
%S	converts to a string of uppercase characters (if not already)
%u	unsigned decimal integer
%h	converts to hashcode
%Н	converts to uppercase hashcode
%x	number in hexadecimal (base 16)
%%	prints a percent sign
\%	prints a percent sign
Decimal Integer	
%0Xd	zero-fill for X digits
%Xd	right justify for X digits
%- <i>X</i> d	left justify for X digits
%+d	adds plus sign(+) to positive integers, minus sign for negative integers(-)
% d	prints minus sign(-) if integer is negative, prints a space elsewise
% , d	uses comma delimiter between every 3 digits (ex: 1,000)
Floating Point	
%.Yf	prints Y positions after decimal
%Xf	takes up X spaces
%0X.Yf	zero-fills
%-X.Yf	left justifies
String	
%Xs	formats string for a minimum of <i>X</i> spaces
%-Xs	left justify
Special Characters	
\a	audible alert
\a	מעעוטוכ מוכונ

\b	backspace
\f	form feed
\n	newline or linefeed
\r	carriage return
\t	tab
\v	vertical tab
\\	backslash

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