Cheatography

GoLang fmt Printing Cheat Sheet

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String and slice of bytes

%s	the uninterpreted bytes of the string or slice
%q	a double-quoted string safely escaped with Go syntax
%x	base 16, lower-case, two characters per byte
%X	base 16, upper-case, two characters per byte

General

%v	The value in a default format. When printing structs, the plus flag (%+v) adds field names.
%#v	a Go-syntax representation of the value
%T	a Go-syntax representation of the type of the value
%%	a literal percent sign; consumes no value

The default format for %v

bool:	%t
int, int8 etc.:	%d
uint, uint8 etc.:	%d, %x if printed with %#v
float32, complex64, etc:	%g
string:	%s
chan:	%p
pointer:	%p

Other flags

+	always print a sign for numeric values; guarantee ASCII-only output for %q (%+q).
-	pad with spaces on the right rather than the left (left-justify the field).
#	alternate format: add leading 0 for octal (%#o), 0x for hex (%#x); 0X for hex (%#X); suppress 0x for %p (%#p); for %q, print a raw (backquoted) string if strconv.CanBackquote returns true;
' ' (space)	leave a space for elided sign in numbers (% d); put spaces between bytes printing strings or slices in hex (% x, % X).
0	pad with leading zeros rather than spaces; for numbers, this moves the padding after the sign.

Boolean

%t	the word true or false

Integer

%b	base 2
%c	the character represented by the corresponding Unicode code point
%d	base 10
%o	base 8
%q	a single-quoted character literal safely escaped with Go syntax
%x	base 16, with lower-case letters for a-f
%X	base 16, with upper-case letters for A-F
%U	Unicode format: U+1234; same as "U+%04X"

Floating-point and complex constituents

%b	decimalless scientific notation with exponent a power of two, in the manner of strconv.FormatFloat with the 'b' format, e.g. -123456p-78
%e	scientific notation, e.g. -1.234456e+78
%E	scientific notation, e.g. -1.234456E+78
%f	decimal point but no exponent, e.g. 123.456
%F	synonym for %f
%g	%e for large exponents, %f otherwise
%G	%E for large exponents, %F otherwise

Floating-point Precision

%f	default width, default precision
%9f	width 9, default precision
%.2f	default width, precision 2
%9.2f	width 9, precision 2
%9.f	width 9, precision 0

Pointer

%p	base 16 notation, with leading 0x

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