

1 MATLAB Notes

1.1 Variable classes

Class	Description
single and double	Includes arrays
int8, int16, int32, int64	Signed integers
char	Character string
logical	
sym	Symbolic
cell	we don't use this
struct	we don't use this
<i>function_handle</i>	we don't use this

A double carries 15 to 17 significant digits

1.2 Structure for conversion specifiers

% starts the conversion specification

Flags (optional)	Description
-	Left justifies
+	Always prints the sign
Space	Inserts a space before value
0	Puts zeros in front instead of spaces

Field Width: (optional) - specifies the minimum numbers of digits to be printed.

Precision: (optional) - specifies the number of digits to be printed after the decimal point.

Conversion Characters (required)	Description
c	Single character
s	Character string
d	Signed decimal notation
e	Fixed-point notation
g	More compact of e and f
	Use matlab help for more

We can use "escape characters" to control the formatting within a string.

Escape character	Description
\b	backspace
\n	new line
\t	horizontal tab
more...	See matlab help

1.3 Logical Class and Operators

Class	Description
==	Equal
~=	Not equal
<, <=	Less than, less than equal
> , >=	Greater than, greater than equal
& &	And
	Or
xor(statement1, statement2)	Exclusive Or