

# Basic Data types

Type	Example	Size	Range	Format Code
char	A B C..Z a b c..z @ \$ % *	8 bits, 1 byte	-128 to +127	"%c"
int	32, 3, 4 ,5 -4, -5, -6	32 bits, 4 bytes	-2,14,74,83,648 to +2,14,74,83,647	"%d" "%i"
float	3.4, 5.25, -2.3, -6.7	32 bits, 4 bytes	3.4E-38 to 3.4E+38	"%f"
double	3.4, 5.25, -2.3, -6.7	64 bits, 8 bytes	1.7E-308 to 1.7E+308	"%lf"

## Extended Data types

Type	Size	Range	Format Code
unsigned char	8 bits, 1 byte	0 to 255	"%hhu" Extension is performed when "%u" or "%d" is used
short int    or short	16 bits, 2 bytes	-32,768 to 32,767	"%hd" "%hi"
unsigned short int or unsigned short	16 bits, 2 bytes	0 to 65,535	"%hu"
unsigned int    or unsigned	32 bits, 4 bytes	0 to 4,294,967,295	"%u"
long int    or long	32 bits, 4 bytes	-2,14,74,83,648 to +2,14,74,83,647	"%ld" "%li"
unsigned long int or unsigned long	32 bits, 4 bytes	0 to 4,294,967,295	"%lu"
long long int    or long long	64 bits, 8 bytes	-9223372036854775808 to +9223372036854775808	"%lld" "%lli"
unsigned long int or unsigned long	64 bits, 8 bytes	0 to 18446744073709551615	"%llu"