

`printf`
(`man 3 printf`)

	type	format	sizeof (x86_64)
base types	char	<code>%c</code>	1
	short	<code>%hd</code>	2
	unsigned short	<code>%hu</code>	2
	int	<code>%d</code>	4
	unsigned int	<code>%u</code>	4
	long	<code>%ld</code>	8
	unsigned long	<code>%lu</code>	8
	float	<code>%f</code>	4
	double	<code>%f</code>	8
typedef'd	size_t	<code>%zu</code>	8
	ssize_t	<code>%zd</code>	8

Example: `long x = 5;`
`printf("x = %ld, sizeof(x) = %zu\n", x, sizeof(x));`

Other Common Format Specifiers

type	format	note
<code>char, short, int</code>	<code>%x</code>	print as hexadecimal
<code>long</code>	<code>%lx</code>	print as hexadecimal
<code>char *s</code>	<code>%s</code>	Print a nul-terminated
<code>int *a</code>	<code>%p</code>	Print a pointer value (the address it's storing)

Example:

```
int i = 10;

printf("%x\n", i);           // a
printf("0x%x\n", i);       // 0xa
printf("%#x\n", i);       // 0xa
printf("0x%02x\n", i);    // 0x0a
```

Related Functions

Print target

```
printf("i = %d\n", i);
```

stdout

```
fprintf(stderr, "i = %d\n", i);
```

stderr

```
int len;
```

```
char s[32] = { 0 };
```

```
len = snprintf(s, sizeof(s), "i = %d\n", i);
```

string