

```
split(/([,-])/, "1-10,20", 3);
```

produces the list value

```
(1, '-', 10, ',', 20)
```

If you had the entire header of a normal Unix email message in `$header`, you could split it up into fields and their values this way:

```
$header =~ s/\n\s+/ /g; # fix continuation lines
%hdrs   = (UNIX_FROM => split /^(\S*?):\s*/m, $header);
```

The pattern `/PATTERN/` may be replaced with an expression to specify patterns that vary at runtime. (To do runtime compilation only once, use `/$variable/o`.)

As a special case, specifying a `PATTERN` of space (`' '`) will split on white space just as `split` with no arguments does. Thus, `split(' ')` can be used to emulate `awk`'s default behavior, whereas `split(/ /)` will give you as many null initial fields as there are leading spaces. A `split` on `/\s+/` is like a `split(' ')` except that any leading whitespace produces a null first field. A `split` with no arguments really does a `split(' ', $_)` internally.

A `PATTERN` of `/^/` is treated as if it were `/^/m`, since it isn't much use otherwise.

Example:

```
open(PASSWD, '/etc/passwd');
while (<PASSWD>) {
    chomp;
    ($login, $passwd, $uid, $gid,
     $gcos, $home, $shell) = split(/:/);
    #...
}
```

As with regular pattern matching, any capturing parentheses that are not matched in a `split()` will be set to `undef` when returned:

```
@fields = split /(A)|B/, "1A2B3";
# @fields is (1, 'A', 2, undef, 3)
```

### **sprintf** FORMAT, LIST

Returns a string formatted by the usual `printf` conventions of the C library function `sprintf`. See below for more details and see *sprintf(3)* or *printf(3)* on your system for an explanation of the general principles.

For example:

```
# Format number with up to 8 leading zeroes
$result = sprintf("%08d", $number);

# Round number to 3 digits after decimal point
$rounded = sprintf("%.3f", $number);
```

Perl does its own `sprintf` formatting—it emulates the C function `sprintf`, but it doesn't use it (except for floating-point numbers, and even then only the standard modifiers are allowed). As a result, any non-standard extensions in your local `sprintf` are not available from Perl.

Unlike `printf`, `sprintf` does not do what you probably mean when you pass it an array as your first argument. The array is given scalar context, and instead of using the 0th element of the array as the format, Perl will use the count of elements in the array as the format, which is almost never useful.

Perl's `sprintf` permits the following universally-known conversions: