Printf variable number of decimals in float

I found interesting format for printing nonterminated fixed length strings like this:

```c
char newstr[40] = {0};
sprintf(newstr,"%.*s",  sizeof(mystr), mystr);
```

So I think maybe is there a way under printf command for printing a float number...

```
"%8.2f"
```

to have ability to choose number of decimals with integer number.

Something like this:

```c
sprintf(mystr, "%d %f", numberofdecimals, floatnumbervalue)
```

EDIT - Solution:
(for rounding and clearing a float number to desired precision).

```c
int precision = 2;
char kolf[16] = {0};
sprintf(kolf, "%8.*f", precision, mystruct.myfloat);
float kol = atof(kolf);
```

c　printf

edited 3 hours ago

asked 3 hours ago

user973238
706　2　13

2 Answers

You can also use ".*" with floating points, see also
http://www.cplusplus.com/reference/cstdio/printf/ (refers to C++, but the format specifiers are similar)

.number: For a, A, e, E, f and F specifiers: this is the number of digits to be printed after the decimal point (by default, this is 6).

...

.*: The precision is not specified in the format string, but as an additional integer value argument preceding the argument that has to be formatted.

For example:

```c
float floatnumbervalue = 42.3456;
int numberofdecimals = 2;
printf("%.*f", numberofdecimals, floatnumbervalue);
```
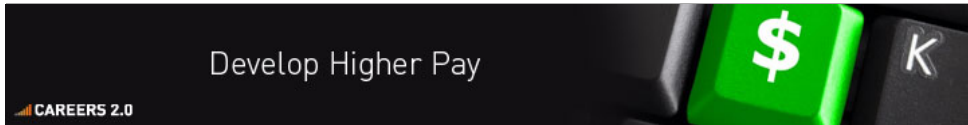
Output:

```
42.35
```

edited 3 hours ago   answered 3 hours ago
                                    Andreas
                                    7,626   1   4   24

Thank you, that solves my problem. –   user973238   3 hours ago

You can use the asterisk for that too, both for the field width and the precision:

```
printf("%*.*f\n", myFieldWidth, myPrecision, myFloatValue);
```

See e.g. this reference.

                                    answered 3 hours ago
                                    Joachim Pileborg
                                    58.7k   5   28   70

Thanks Joach, this is what I search for. –   user973238   3 hours ago

1   +1 for the link to the "C" part of en.cppreference.com - bookmarked :) – Andreas 3 hours
    ago

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