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How to use loess method in GGally::ggpairs using wrap function

2 r ggplot2 wrap loess ggally

I am trying to replicate this simple example given in the Coursera R Regression Models course:

```
require(datasets)
data(swiss)
require(GGally)
require(ggplot2)
ggpairs(swiss, lower = list(continuous = "smooth", params = c(method = "loess")))
```

I expect to see a 6x6 pairs plot - one scatterplot with loess smoother and confidence intervals for each combination of the 6 variables in the swiss data.

However, I get the following error:

Error in display_param_error(): 'params' is a deprecated argument. Please 'wrap' the function to supply arguments. help("wrap", package = "GGally")

I looked through the ggpairs() and wrap() help files and have tried lots of permutations of the wrap() and wrap_fn_with_param_arg() functions.

I can get this to work as expected:

```
ggpairs(swiss, lower = list(continuous = wrap("smooth")))
```

But once I add the loess part in, it does not:

```
ggpairs(swiss, lower = list(continuous = wrap("smooth"), method = wrap("loess")))
```

I get this error when I tried the line above.

Error in value[3L]: The following ggpair plot functions are readily available: continuous: c('points', 'smooth', 'density', 'cor', 'blank') combo: c('box', 'dot', 'facethist', 'facethist', 'facethist', 'density', 'denstrip', 'blank') discrete: c('ratio', 'facetbar', 'blank') na: c('na', 'blank')

diag continuous: c('densityDiag', 'barDiag', 'blankDiag') diag discrete: c('barDiag', 'blankDiag') diag na: c('naDiag', 'blankDiag')

You may also provide your own function that follows the api of function(data, mapping, ...) and returns a ggplot2 plot object Ex: my_fn <-function(data, mapping, ...) gepairs(data, lower = list(continuous = my_fn)) + geom_point(...) p } ggpairs(data, lower = list(continuous = my_fn))

Function provided: loess

Obviously I am entering loess in the wrong place. Can anyone help me understand how to add the loess part in?

Note that my problem is different to this one, as I am asking how to implement loess in ggpairs since the params argument became deprecated.

Thanks very much.

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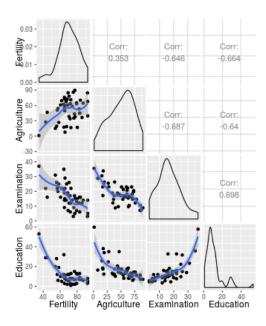
Asked Jan 29 at 13:03

One quick way is to write your own function... the one below was edited from the one provided by the ggpairs error message in your question

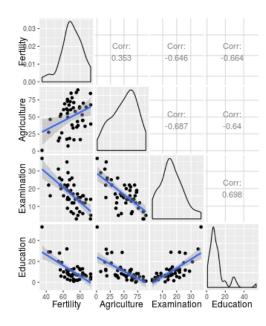
```
library(GGally)
library(ggplot2)
data(swiss)

# Function to return points and geom_smooth
# allow for the method to be changed
my_fn <- function(data, mapping, method="loess", ...){
    p <- ggplot(data = data, mapping = mapping) +
        geom_point() +
        geom_smooth(method=method, ...)
    p
}

# Default loess curve
ggpairs(swiss[1:4], lower = list(continuous = my_fn))</pre>
```



```
# Use wrap to add further arguments; change method to lm
ggpairs(swiss[1:4], lower = list(continuous = wrap(my_fn, method="lm")))
```



This perhaps gives a bit more control over the arguments that are passed to each geon_

share improve this answer



Answered Jan 29 at 15:59

Edited Jan 30 at 12:53

1 That's so helpful, thanks very much! – meenaparam Feb 1 at 9:44

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