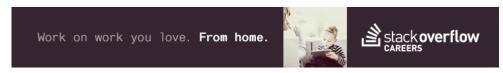
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Compare 1 independent vs many dependent variables using seaborn pairplot in an horizontal plot



The pairplot function from seaborn allows to plot pairwise relationships in a dataset.

According to the documentation (highlight added):

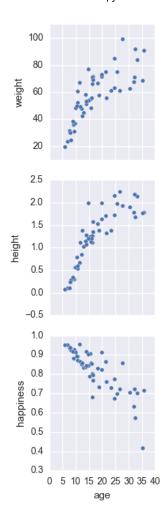
By default, this function will create a grid of Axes such that each variable in data will by shared in the y-axis across a single row and in the x-axis across a single column. The diagonal Axes are treated differently, drawing a plot to show the univariate distribution of the data for the variable in that column.

It is also possible to show a subset of variables or plot different variables on the rows and columns.

I could find only one example of subsetting different variables for rows and columns, here (it's the 6th plot under the *Plotting pairwise relationships with PairGrid and pairplot()* section). As you can see, it's plotting many independent variables (*x_vars*) against the same single dependent variable (*y_vars*) and the results are pretty nice.

I'm trying to do the same plotting a single independent variable against many dependent ones.

The problem is that the subplots get arranged vertically, and I couldn't find a way to change it.



I know that then the tiling structure would not be so neat as the Y axis should be labeled at every subplot. Also, I know I could generate the plots making it by hand with something like this:

```
fig, axes = plt.subplots(ncols=3)
for i, yvar in enumerate(['weight', 'height', 'happiness']):
    axes[i].scatter(data['age'],data[yvar])
```

Still, I'm learning to use the seaborn and I find interface very convenient, so I wonder if there's a way. Also, this example is pretty easy, but for more complex datasets seaborn handles for you many more things that would make the *raw-matplotlib* approach much more complex quite quickly (*hue*, to start)

```
python seaborn
```

asked Aug 12 '15 at 13:22 mgab 705 1 11

The point of PairGrid is to draw multiple plots where variables are shared across axes, so you're not going to be able to use it for what you want to do. – mwaskom Aug 12 '15 at 14:52

Fair enough. Is there any way to do what I was trying with this kind of $\,$ pandas -aware syntax? - $\,$ mgab Aug 12 '15 at 15:44

If your'e just doing scatterplots, it should be pretty easy to use pandas plotting methods. – mwaskom Aug 12 '15 at 16:16