

SOC 5050: Week 13 Commands Quick Reference

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Scatter Plots

Basic Scatter Plot

```
graph twoway scatter yvar xvar [, graph options]
```

Scatter Plot with Regression Line

```
graph twoway (lfit yvar xvar [if exp]) ///  
  (scatter yvar xvar [if exp]) [, graph options]1
```

¹ For plots that are factored out by a categorical variable, use the `if` qualifiers to build specific layers for each factor.

Scatter Plot with Regression Line and Confidence Intervals

```
graph twoway (lfitci yvar xvar [if exp]) ///  
  (scatter yvar xvar [if exp]) [, graph options]2
```

² For plots that are factored out by a categorical variable, use the `if` qualifiers to build specific layers for each factor.

Faceted Scatter Plot

```
graph twoway scatter yvar xvar, ///  
  by(facetVar, graph suboptions) [graph options]3
```

³ For faceted plots, both the `title()` and `subtitle()` options should be specified as suboptions of `by()`.

Options for Plot Aesthetics

`msymbol()` - shape of layer's point symbol⁴

`lpattern()` - style of layer's line⁵

`mcolor()` - color of layer's point symbol⁶

`lcolor()` - color of layer's line

⁴ See Stata's [symbolstyle documentation](#) for a list of choices.

⁵ See Stata's [linepatternstyle documentation](#) for a list of choices.

⁶ See Stata's [colorstyle documentation](#) for a list of choices.

Options for Plot Legend

`legend(off)` - suppress legend

`legend(order(3 "label" 4 "label"))` - show only layers 1 and 2 in legend and customize their labels.

Pearson's r

```
pwcorr varlist [, listwise sig]7
```

⁷ Do not use the `corr` command.

Power Analysis

```
power onecorrelation nullVal effectSize [, power(val)]8
```

⁸ The *nullVal* is typically 0. If no value is specified for power, it will be set to a default value of 0.80.

Cronbach's α

```
alpha varlist [, std detail generate(scaleVar)]
```

Document Details

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