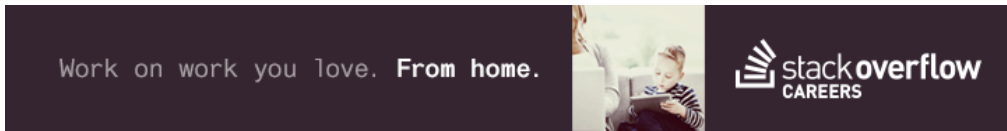


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## R lattice package: add legend to a figure

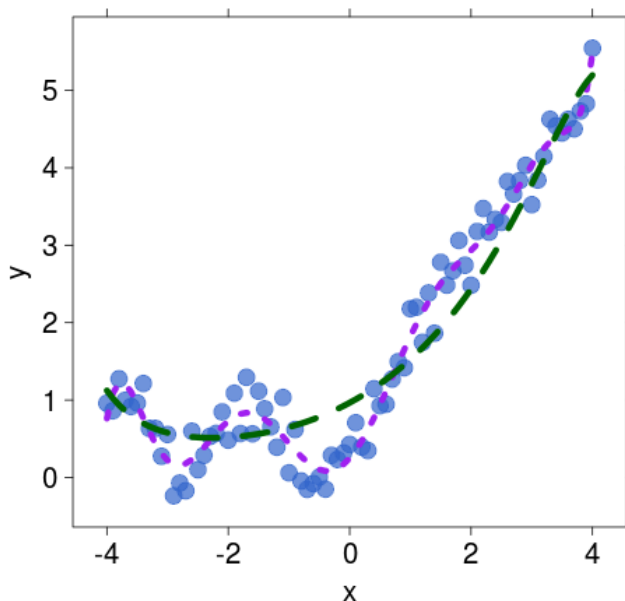


I am using the lattice package, and I want to add a **legend** to my figure. The documentation of **auto.key** and **legend** is very confusing, and couldn't figure out the correct syntax to add a legend. Here is my code:

```
xyplot(y ~ x, df, pch=19, col=rgb(0.2, 0.4, 0.8, 0.7), cex=2,
       scales=list(cex=1.7),
       xlab=list("x", cex=1.7), ylab=list("y", cex=1.7),
       main=list("Linear Regression w. Polynomial Attributes", cex=1.6),
       auto.key=T,
       panel = function(x, y, ...) {
         panel.xyplot(x, y, ...)
         llines(x, predict(lm.xtend), col="purple", lwd=6, lty=3)
         llines(x, predict(ridge.lin), col="darkgreen", lwd=6, lty=2)
       })
```

The graph is shown below, so I just want to add a legend for the lines.

### Linear Regression w. Polynomial Attributes



r legend lattice

edited Aug 4 '14 at 3:36

asked Aug 3 '14 at 21:15



Vahid Mir

1,045 2 13 32

1 The `legend`-function is not part of the `grid`/`lattice`/`ggplot` world. You are trying to mix base-graphics with grid-graphics. In `lattice` it would need to be `legend=list('inside' = someGrobMakingFunction)`. You should learn to use the `key=list(...)` mechanism. – 42- Aug 3 '14 at 22:00

Still no example, so it remains unclear what you were hoping to see. There are no group or conditioning variables in that `xyplot`-call so it remains unclear how a legend with two text values is supposed to be constructed. Perhaps you just want to add a text box? – 42- Aug 4 '14 at 0:56

## 1 Answer


I don't know exactly how you want this to look, but here is a start. In place of `auto.key=T` put:

```
key=list(space="right",
        lines=list(col=c("purple", "darkgreen"), lty=c(3,2), lwd=6),
        text=list(c("Purple Line", "Dark-green Line"))
)
```

This will put the key on the right side of the graph. You can use "top", "bottom", or "left" instead. If you want it inside the plot, get rid of `space` and instead use `corner=c(0,1)` . The first number is location on the x-axis (from 0 to 1) the second for the y-axis. So this would put in in the upper left.

edited Mar 20 at 12:45

answered Aug 7 '14 at 14:55



John Paul

3,836 2 14 35

http://stackoverflow.com/questions/25109196/r-lattice-package-add-legend-to-a-figure

2/2