GESIS-Workshop "Datenanalyse mit R"

Reproducable research

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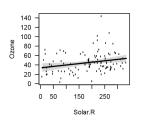


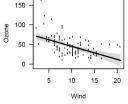
Ein Modell wird auf dem airquality Datensatz geschätzt

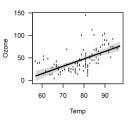
```
library(visreg)
fit <- lm(Ozone ~ Solar.R + Wind + Temp, data = airquality)
visreg(fit)</pre>
```

Und dann mit visreg visualisiert.

http://myweb.uiowa.edu/pbreheny/publications/visreg.pdf



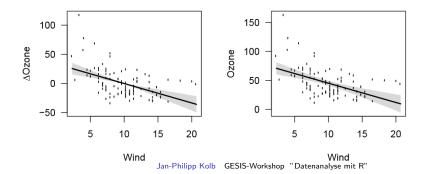




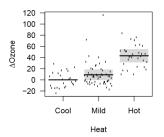
Mit dem zweiten Argument wird die erklärende Variable spezifiziert, die visualisiert werden soll.

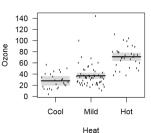
```
visreg(fit, "Wind", type = "contrast")
visreg(fit, "Wind", type = "conditional")
```

Das Default-Argument für type ist conditional.



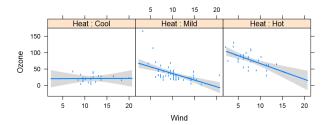
Mit visreg können die Effekte bei Faktoren visualisiert werden.





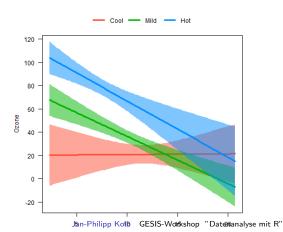
Das Paket visreg - Interaktionen

```
airquality$Heat <- cut(airquality$Temp, 3,
labels=c("Cool", "Mild", "Hot"))
fit <- lm(Ozone ~ Solar.R + Wind * Heat, data = airquality)
visreg(fit, "Wind", by = "Heat")</pre>
```



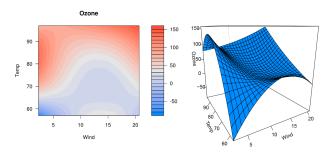
Das Paket visreg - Interaktionen overlay

```
fit <- lm(0zone \sim Solar.R + Wind * Heat, data = airquality) visreg(fit, "Wind", by="Heat", overlay=TRUE, partial=FALSE)
```



Das Paket visreg - surface

```
visreg2d(fit, "Wind", "Temp", plot.type = "image")
visreg2d(fit, "Wind", "Temp", plot.type = "persp")
```



MY HOBBY: EXTRAPOLATING

