Einführung in die Datenanalyse mit R - Ausblick

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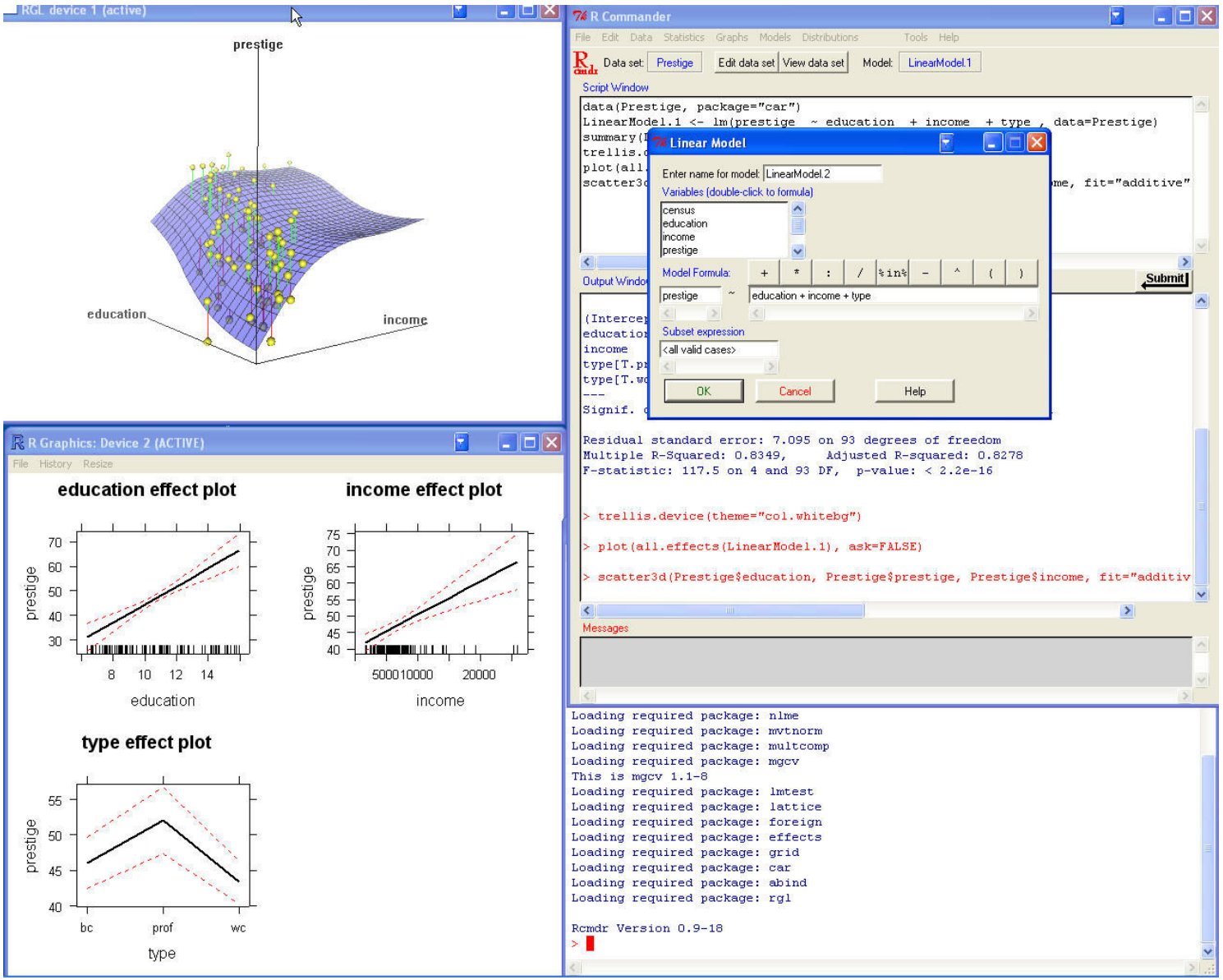
Der Rcommander

```
library("Rcmdr")
```



Interaktive Grafiken mit R

Quick-R - Interaktive Grafiken

```
# install.packages("iplots",dep=TRUE)
library(iplots)
cyl.f <- factor(mtcars$cyl)
gear.f <- factor(mtcars$factor)
attach(mtcars)
ihist(mpg) # histogram
ibar(carb) # barchart
iplot(mpg, wt) # scatter plot
ibox(mtcars[c("qsec","disp","hp")]) # boxplots
ipcp(mtcars[c("mpg","wt","hp")]) # parallel coordinates
imosaic(cyl.f,gear.f) # mosaic plot
```

R-Paket rggobi

```
library(rggobi)
g <- ggobi(mydata)
```

Interaktion mit plots

```
attach(mydata)
plot(x, y) # scatterplot
identify(x, y, labels=row.names(mydata)) # identify points
coords <- locator(type="l") # add lines
coords # display list
```

Tabellen für Publikationen

```
library(stargazer)
stargazer(attitude)
```

Table 1: Regression Results

	Dependent variable:		
	rating		high.rating
	OLS		*probit*
	(1)	(2)	(3)
complaints	0.692***	0.682***	
	(0.149)	(0.129)	
privileges	−0.104	−0.103	
	(0.135)	(0.129)	
learning	0.249	0.238*	0.164***
	(0.160)	(0.139)	(0.053)
raises	−0.033		
	(0.202)		
critical	0.015		−0.001
	(0.147)		(0.044)
advance			−0.062
			(0.042)
Constant	11.011	11.258	−7.476**
	(11.704)	(7.318)	(3.570)
Observations	30	30	30
R^2	0.715	0.715	
Adjusted R^2	0.656	0.682	
Log likelihood			−9.087
Akaike Inf. Crit.			26.175
Residual Std. Error	7.139($df = 24$)	6.863($df = 26$)	
F statistic	12.063***($df = 5; 24$)	21.743***($df = 3; 26$)	

Tabellen mit dem R-Paket knitr

```
library(knitr)
kable(head(iris), format = "latex")
```

```
kable(head(women), format='latex', booktabs=TRUE)
```

height	weight
58	115
59	117
60	120
61	123
62	126
63	129

Nichtlineare Regression

Folien zum Workshop:

`https://github.com/Japhilko/npRegression/tree/master/slides`

```
library(splines)
```