

GESIS-Workshop
"Datenanalyse mit R"
Reproducible research

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R und LaTeX

Table 1: The Importance of Clustering Standard Errors

	M1	M2	M3
(Intercept)	4.35*** (1.32)	4.35*** (0.76)	4.35*** (1.32)
x	2.26* (1.27)	2.26*** (0.73)	2.26* (1.32)
R ²	0.00	0.00	0.00
Adj. R ²	0.00	0.00	0.00
Num. obs.	1000	3000	3000

*** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$

Quelle: <http://diffuseprior.wordpress.com/tag/stargazer/>

Das R-Paket xtable

- ▶ R bietet tolle Möglichkeiten mit LaTeX zu interagieren
- ▶ Zusammen mit word funktioniert das leider weniger gut (höchstens Paket R2wd)

```
N <- 1000
```

```
a <- sample(1:5, N, replace=T)
```

```
b <- sample(1:3, N, replace=T)
```

```
tabAB <- table(a, b)
```

```
xtable(tabAB)
```

Das R-Paket stargazer

```
stargazer(attitude)
```

Tabelle:

Statistic	N	Mean	St. Dev.	Min	Max
rating	30	64.633	12.173	40	85
complaints	30	66.600	13.315	37	90
privileges	30	53.133	12.235	30	83
learning	30	56.367	11.737	34	75
raises	30	64.633	10.397	43	88
critical	30	74.767	9.895	49	92
advance	30	42.933	10.289	25	72

Mehr zu reproducible research mit R

- ▶ Das R-Paket `library(texreg)`
- ▶ Das R-Paket `library(R2wd)`
- ▶ <http://knutur.at/wsmt/slides/long-slides.pdf>
- ▶ R Task View zu reproducible research:

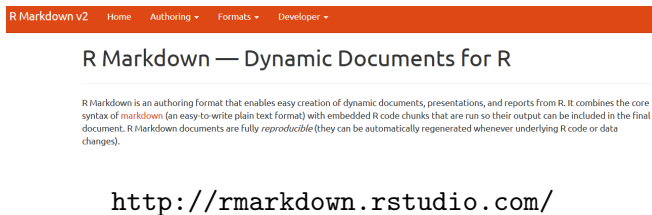
CRAN Task View: Reproducible Research

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Rmarkdown



`http://rmarkdown.rstudio.com/`

Rmarkdown

```
---  
title: "Habits"  
author: John Doe  
date: March 22, 2005  
output: word_document  
---
```

[http:
//rmarkdown.rstudio.com/word_document_format.html](http://rmarkdown.rstudio.com/word_document_format.html)