

Notebooks

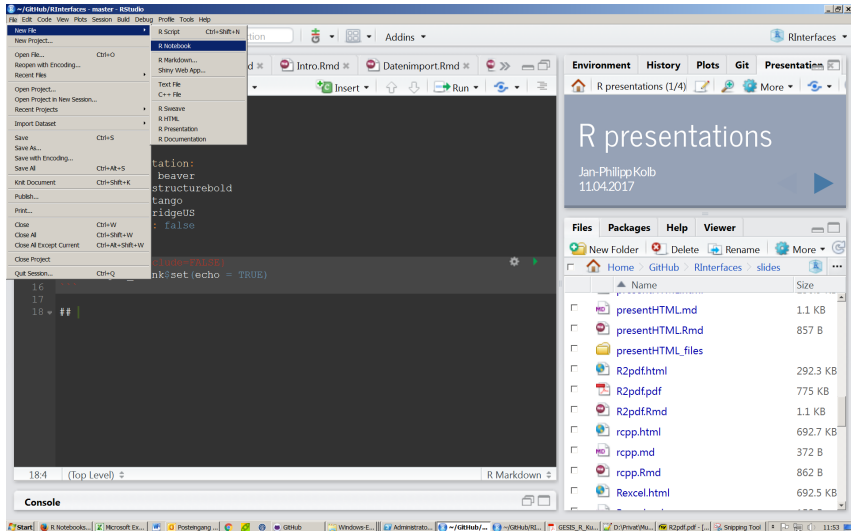
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11 April 2017

- Warum R Notebook nutzen

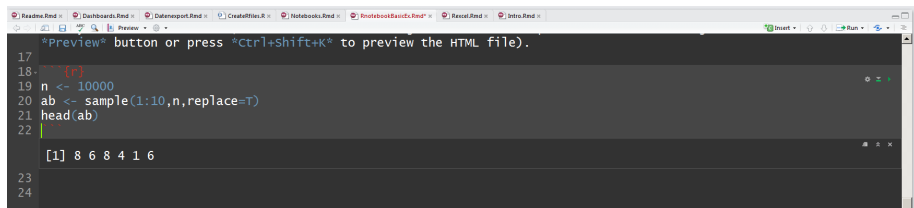
Rnotebooks

Ein Rnotebook anlegen



Rnotebook - erste Schritte

- Es lassen sich so genannte Chunks einfügen
- In diesen Chunks wird ganz normaler R-code geschrieben



The screenshot shows the RStudio interface with a notebook. The top pane displays a message: `*Preview* button or press *Ctrl+Shift+K* to preview the HTML file).`. The bottom pane shows the execution of R code. The code defines a variable `n` as 10000, generates a random sample `ab` from 1 to 10, and prints the first element of `ab`. The output is `[1] 8 6 8 4 1 6`.

```
17 *Preview* button or press *Ctrl+Shift+K* to preview the HTML file).
18 
19 n <- 10000
20 ab <- sample(1:10,n,replace=T)
21 head(ab)
22 
23 [1] 8 6 8 4 1 6
24
```

Python Code integrieren

- Ebenso lässt sich Python code implementieren

```
20 '''(python)  
21 print("Hello World")  
22 '''
```

Hello World

```
import sys  
print(sys.version)
```

```
## 2.7.10 (default, May 23 2015, 09:44:00) [MSC v.1500 64 bit
```

Datenaustausch mittels feather

```
install.packages("feather")
```

Das Paket feather

```
import pandas
import feather

# Read flights data and select flights to O'Hare
flights = pandas.read_csv("flights.csv")
flights = flights[flights['dest'] == "ORD"]

# Select carrier and delay columns and drop rows with missing
flights = flights[['carrier', 'dep_delay', 'arr_delay']]
flights = flights.dropna()
print flights.head(10)

# Write to feather file for reading from R
feather.write_dataframe(flights, "flights.feather")
```


LaTeX Code integrieren

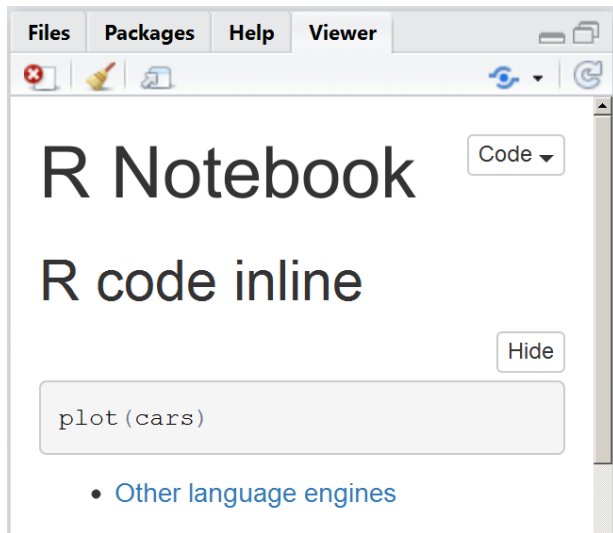
- LaTeX code wird mit zwei Dollarzeichen gekennzeichnet

```
 $\alpha = \frac{\beta}{\lambda}$ 
```

$$\alpha = \frac{\beta}{\lambda}$$



Notebook veröffentlichen



Notebook veröffentlichen

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RPubs

RPubs is a free service from RStudio for sharing documents on the web.



RStudio Connect

RStudio Connect is a server product from RStudio for secure sharing of applications, reports, and plots.



Cancel

Links

- knitr Language Engines
- More engines
- Andere Programmiersprachen einbinden
- Video - Einführung in Rnotebook
- R Notebooks