

Notebooks

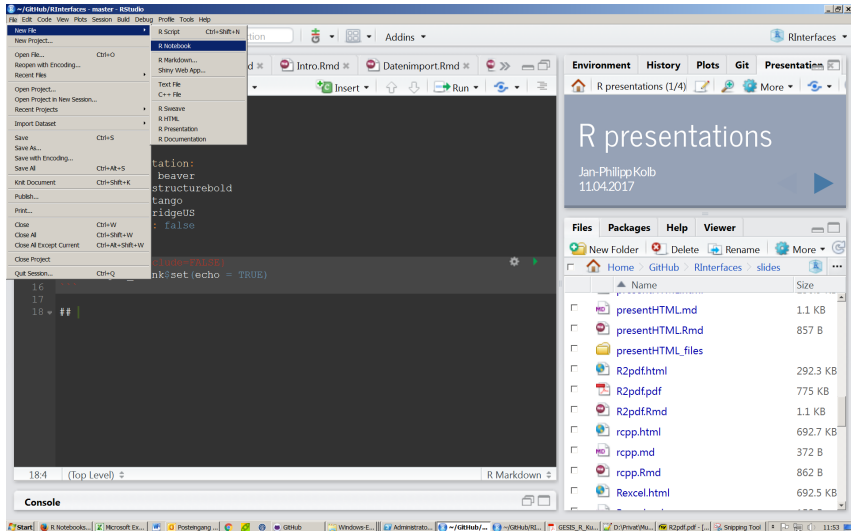
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11 April 2017

- Warum R Notebook nutzen

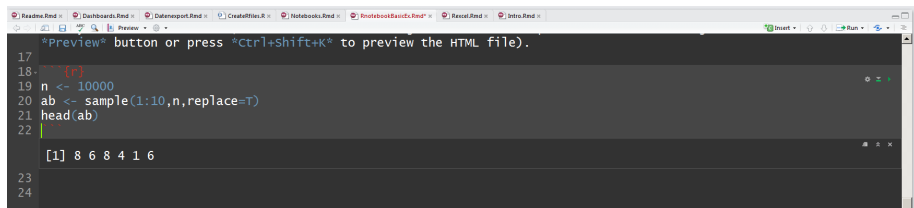
Rnotebooks

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 a web browser window with multiple tabs. The active tab is titled "RnotebookBasics.Rmd". The browser address bar shows a local file path. The notebook interface has a dark background. At the top, there is a text prompt: "*Preview* button or press *Ctrl+Shift+K* to preview the HTML file)." Below this, a code chunk is shown with line numbers 17 through 24. The code in the chunk is:

```
17   
18 "{r}"  
19 n <- 10000  
20 ab <- sample(1:10,n,replace=T)  
21 head(ab)  
22   
23   
24
```

 The output of the code is displayed below the chunk:

```
[1] 8 6 8 4 1 6
```

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

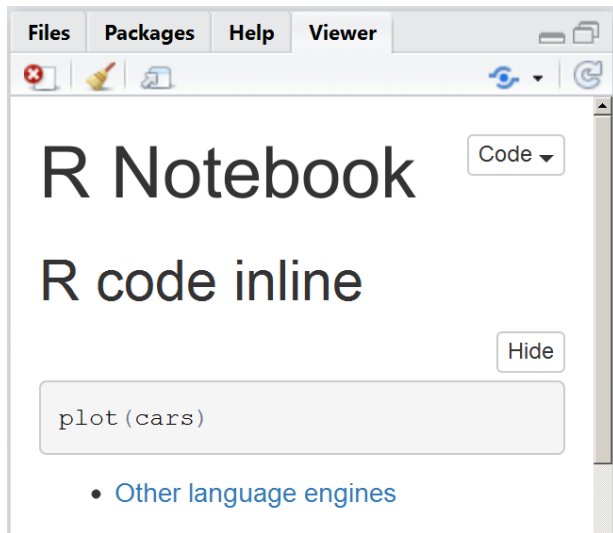
- LaTeX code wird mit zwei Dollarzeichen gekennzeichnet

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

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



Notebook veröffentlichen I



Notebook veröffentlichen II

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RPubs

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RStudio Connect

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Cancel

Links

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