

R für KI fit machen in 30 Minuten

Wie Sie Ihre R Installation
für KI Aufgaben vorbereiten.



Statistiker - KI-Experte - R/Python-Spezialist



***Ihr Trainer für
professionelle Datenanalyse***

Statistiker, KI-Experte und R/Python-Spezialist



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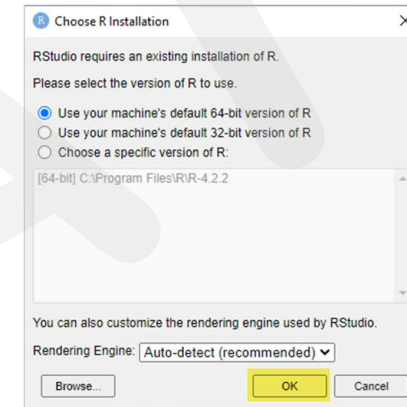


- Aktuelle **R** Installation - 4.2
- **RTools** zur aktuellen R 4.2 Installation
- Aktuelle **RStudio** Entwicklungsumgebung

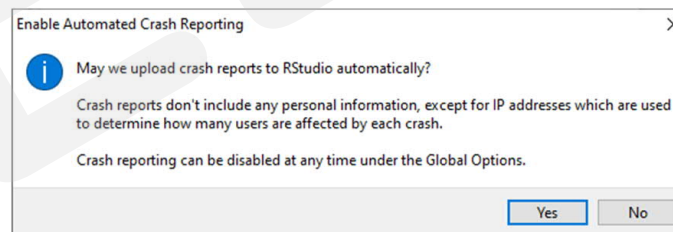
erstmalig RStudio starten



- bestätigen Sie den Dialog "Choose R installation" mit den voreingestellten Optionen



- entscheiden Sie über die automatische Weitergabe von Fehlerberichten



Global Optionen Teil 1

Global Options



General | Basic

The screenshot shows the 'Options' dialog box with the 'Basic' tab selected. The left sidebar lists various categories: General, Code, Console, Appearance, Pane Layout, Packages, R Markdown, Python, Sweave, Spelling, Git/SVN, Publishing, Terminal, and Accessibility. The main area contains settings for R Sessions, Workspace, History, and Other. The 'R version' field is set to '[64-bit] C:\Program Files\R\R-4.2.2'. The 'Default working directory' is 'C:/Users/Helmut/Documents/RWorkingDir'. The 'Workspace' section has 'Restore .RData into workspace at startup' checked. The 'History' section has 'Always save history' checked. The 'Other' section has 'Wrap around when navigating to previous/next tab' checked and 'Automatically notify me of updates to RStudio' checked.

General | Display

The screenshot shows the 'Options' dialog box with the 'Display' tab selected. The left sidebar is the same as in the Basic tab. The main area contains settings for General and Syntax. The 'General' section has 'Highlight selected word' checked, 'Show line numbers' checked, 'Show margin' checked, and 'Margin column' set to 80. The 'Syntax' section has 'Enable preview of named and hexadecimal colors' checked.

Spelling

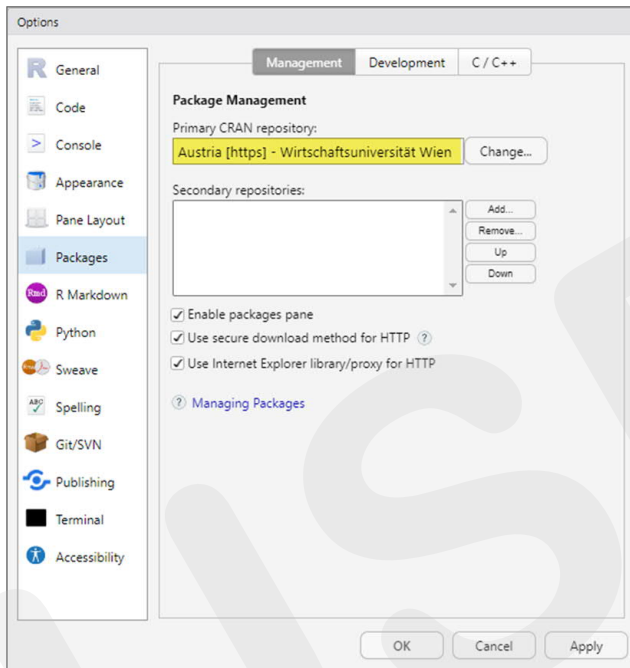
The screenshot shows the 'Options' dialog box with the 'Spelling' tab selected. The left sidebar is the same as in the previous tabs. The main area contains settings for Dictionaries, Ignore, and Checking. The 'Main dictionary language' is set to 'English (United States)'. The 'Checking' section has 'Use real time spell-checking' checked.

Global Optionen Teil 2

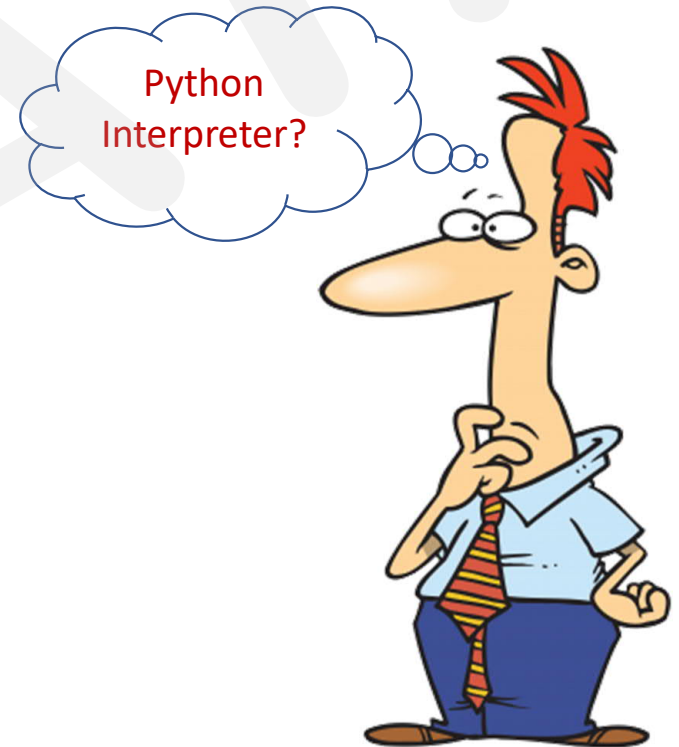
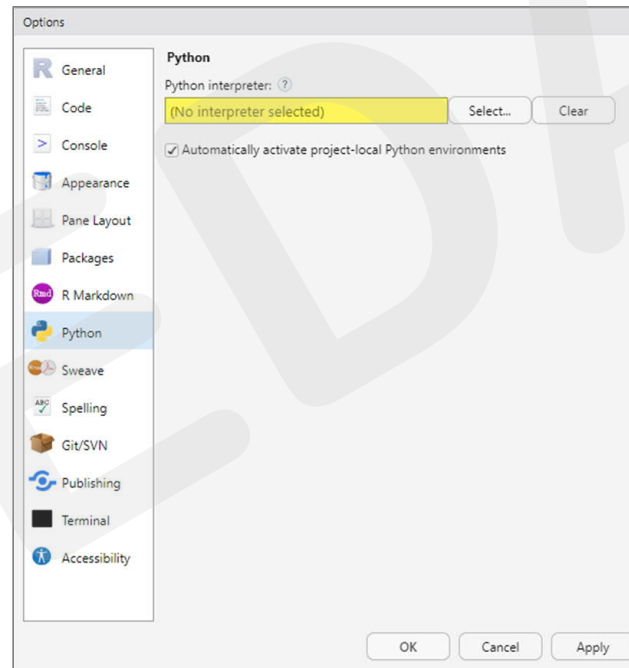
Global Options



Packages | Management




Python



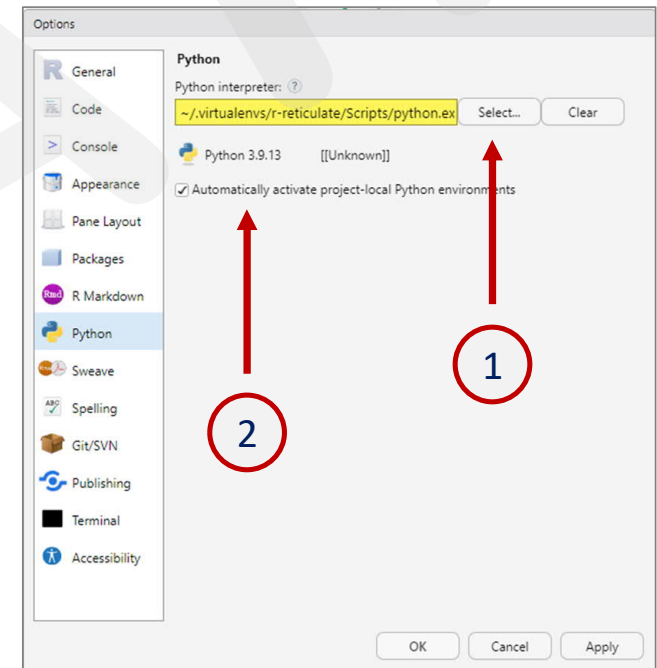
Virtuelles Environment erstellen

- install devtools
 - install tidyverse
 - install **reticulate**
- optional



```
path_to_python <- reticulate::install_python()   
reticulate::virtualenv_create("r-reticulate", python = path_to_python)
```

Python





- install tensorflow
- install keras

keras::install_keras() 

die Installation erfolgt im Environment des aktiven Python Interpreters

tensorflow::tf\$constant("Hello Tensorflow!")

tf.Tensor(b'Hello Tensorflow!', shape=(), dtype=string)



MNIST,
das **Hello World** Beispiel
in der Welt des Deep Learning!



Danke für Ihr Interesse

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