EINFÜHRUNG IN R - HOUSEKEEPING

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PAKETE AUTOMATISCH INSTALLIEREN

- Mit installed.packages() kann ich herausfinden, welche Pakete installiert sind.
- Bei mir sind es momentan 317 Pakete.

```
my_packages <- installed.packages()
mypack <- my_packages[,"Package"]</pre>
```

my_packages[,"Package"]

##	abind	acepack	AER
##	"abind"	"acepack"	"AER"
##	AmesHousing	antiword	aplpack
##	"AmesHousing"	"antiword"	"aplpack"
##	arm	askpass	assertthat
##	"arm"	"askpass"	"assertthat"
##	backports	base	base64enc
##	"backports"	"base"	"base64enc"
##	bayestestR	beanplot	BH
##	"bayestestR"	"beanplot"	"BH"
##	bindr	bindrcpp	bitops
##	"bindr"	"bindrcpp"	"bitops"
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FEHLENDE PAKETE INSTALLIEREN

```
packlist <- c("ggplot2", "Rcpp")
new.packages <- packlist[!(packlist %in% mypack)]
if(length(new.packages)) install.packages(new.packages)</pre>
```

CODEBLÖCKE ZUSAMMENKLAPPEN



Code Folding and Sections

Code Folding

RStudio supports both automatic and user-defined folding for regions of code. Code folding allows you to easily show and hide blocks of code to make it easier to navigate your source file and focus on the coding task at hand. For example, in the following source file the body of the plot.autoregressive.model has been folded:

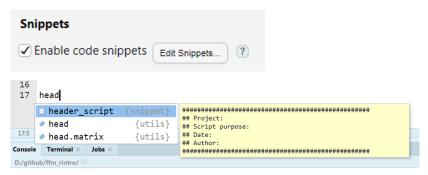


DIE FUNKTION SOURCE

```
source("../rcode/load_packages.R")
```

SNIPPETS - UM AUTOMATISCH CODEKOPF EINZUFÜGEN

Tools > Golbal Options



SHAPEFILES HERUNTERLADEN



SHAPEFILES IMPORTIEREN

It has 2 fields

```
## OGR data source with driver: ESRI Shapefile
## Source: "D:\github\ffm_rintro\data\Stadtteile_Frankfurt_am_Ma
## with 46 features
```

ffm_shp <- rgdal::readOGR("../data/Stadtteile_Frankfurt am Main.

DER DATENSLOT

head(ffm_shp@data)

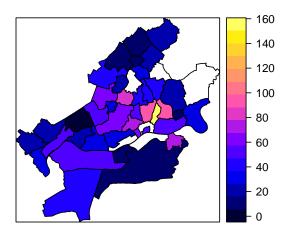
##		${\tt STTLNR}$	STTLNAME
##	0	1	Altstadt
##	1	2	Innenstadt
##	2	3	${\tt Bahnhofsviertel}$
##	3	4	Westend-Süd
##	4	5	Westend-Nord
##	5	6	Nordend-West

Inhaltliche Daten hinzufügen

```
dat <- read.csv2("../data/bauenwohnen.csv")
ffm_shp@data$Einwohnerdichte <-
   dat$Wohnumfeld...öffentlicher.Raum.Einwohnerdichte.je.ha.2012</pre>
```

EINE THEMATISCHE KARTE PLOTTEN

sp::spplot(ffm_shp, "Einwohnerdichte")



THEMATISCHE KARTE MIT TMAP

```
install.packages("tmap")
```

tmap::qtm(ffm_shp,"Einwohnerdichte")

Belabelter SPSS Datensatz

DESTATIS DATEN

devtools::install_github("cutterkom/destatiscleanr")

library(destatiscleanr)

```
{destatiscleanr}
                                                                             read file(file)
                     clean_header
$codepage
                                                                             This functions reads the csv file by using German decimal marks

◆ convert columns to numeric

                                                        {destatiscleanr}
[1] 65001
                     delete_copyright
                                                        {destatiscleanr}
                                                                             Press F1 for additional help

    destatiscleanr

                                                        {destatiscleanr}
> names(att dat)
[1] "names"
                      read file
                                                                             e.labels" "codepage"
> destatiscleanr::
```