

Course 7 - background information

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Presentations

- ▶ Present one or more maps (ideally created in R)
- ▶ Give some background information
- ▶ Presentations should take 20 minutes

Two possible dates:

- ▶ Wednesday November 18 2015
- ▶ Wednesday November 25 2015

Organisation

- ▶ No course next week: Wednesday November 18 2015
- ▶ Please send me a first map as soon as possible
- ▶ Or send me your problems (e.g. Code which is producing errors)

New Dataset - Refugee Routes

```
url <- "https://raw.githubusercontent.com/Japhilko/  
GeoData/master/2015/data/RefugeePlaces.csv"  
  
dat <- read.csv(url)
```

Overview of Refugee Data

Place	Country	lat	lon
Wiener Westbahnhof	Austria	48.19612	16.33974
Passau	Germany	48.57401	13.46064
Kos	NA	-25.92851	19.12950
Parndorf	Austria	47.99740	16.86083
Gevgelija	Mazedonia	41.14146	22.50493
Lampedusa	Italy	35.50353	12.60669

Updated Dataset - Camp Sites

```
url2 <- "https://raw.githubusercontent.com/Japhilko/  
GeoData/master/2015/data/CampSites_Germany.csv"  
  
dat2 <- read.csv(url2)
```

Overview of Camp Site Data

	X	lat	lon	bla	name
2	2	47.9	8.8	Baden-Württemberg	Radler-Zeltplatz
6	6	47.7	7.7	Baden-Württemberg	Kandern
9	9	47.6	8.6	Baden-Württemberg	Schwimmbad
16	16	48.3	8.6	Baden-Württemberg	Camping
39	39	48.5	7.9	Baden-Württemberg	Europa Camping
25	25	47.9	9.4	Baden-Württemberg	Campingplatz Buhhof
16.1	16	48.3	8.6	Baden-Württemberg	Camping

New Dataset - Nursery

```
url3 <- "https://raw.githubusercontent.com/Japhilko/  
GeoData/master/2015/data/DatNursery.csv"  
  
dat3 <- read.csv(url3)
```


Get Polygons for federal states

```
library(raster)
```

```
## Loading required package: sp
```

```
DEU1 <- getData('GADM', country='DEU', level=1)
```

Problems with Umlauts

```
dat3$Namen
```

```
## [1] Baden-WÃ¼rttemberg Bayern Berlin  
## [4] Brandenburg Bremen Hambu  
## [7] Hessen Mecklenburg-Vorpommern Niede  
## [10] Nordrhein-Westfalen Rheinland-Pfalz Saar  
## [13] Sachsen Sachsen-Anhalt Schle  
## [16] ThÃ¼ringen  
## 16 Levels: Baden-WÃ¼rttemberg Bayern Berlin Brandenburg
```

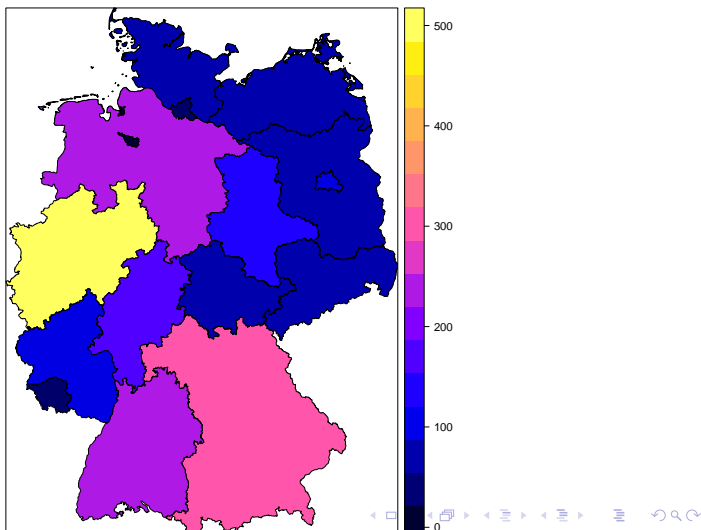
Combine Polygons with data

```
dat3$Namen <- as.character(dat3$Namen)
dat3$Namen[1]<-"Baden-Württemberg"
dat3$Namen[16]<-"Thüringen"
ind <- match(DEU1@data$NAME_1,dat3$Namen)
DEU1@data$In_tsd_07 <- dat3$In_tsd_07
```

```
## Loading required package: sp
```

Produce a map

```
library(sp)
spplot(DEU1,"In_tsd_07")
```



Use a Shiny-App - Eurostat data

```
# install.packages("shiny")  
library(shiny)  
shiny::runGitHub(repo='ShinyApps', username='Japhilko',  
                 subdir='EurostatMapApp/')  

```

```
library(shiny)  
shiny::runGitHub(repo='ShinyApps', username='Japhilko',  
                 subdir='Choropleths/')  

```

An interesting E-Book

- ▶ R-graphics by Paul Murrell