

Paket maptools

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13. April 2015

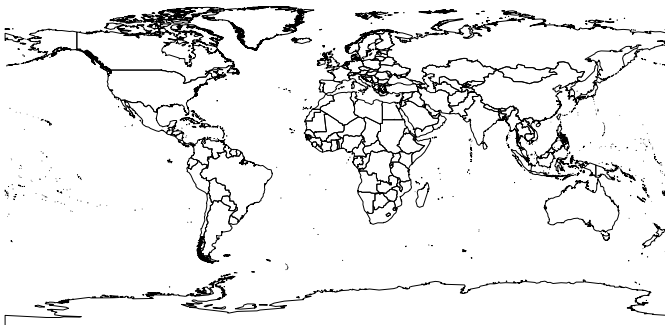
Bibliothek maptools

- ▶ Im Datensatz wrld_simpl sind alle Länder der Erde enthalten
- ▶ Umrisse allerdings nur skizziert

```
library(maptools)  
data(wrld_simpl)
```

Die ganze Welt:

```
plot(wrld_simpl)
```



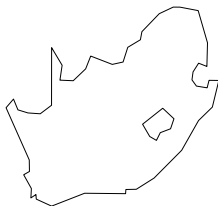
Der Datensatz

```
head(wrld_simpl@data)
```

##	FIPS	ISO2	ISO3	UN	NAME	AREA	POP200
##	ATG	AC	AG	ATG 28	Antigua and Barbuda	44	8303
##	DZA	AG	DZ	DZA 12	Algeria	238174	3285415
##	AZE	AJ	AZ	AZE 31	Azerbaijan	8260	835202
##	ALB	AL	AL	ALB 8	Albania	2740	315373
##	ARM	AM	AM	ARM 51	Armenia	2820	301766
##	AGO	AO	AO	AGO 24	Angola	124670	1609521
##	LON		LAT				
##	ATG	-61.783	17.078				
##	DZA	2.632	28.163				
##	AZE	47.395	40.430				
##	ALB	20.068	41.143				
##	ARM	44.563	40.534				
##	AGO	17.544	-12.296				

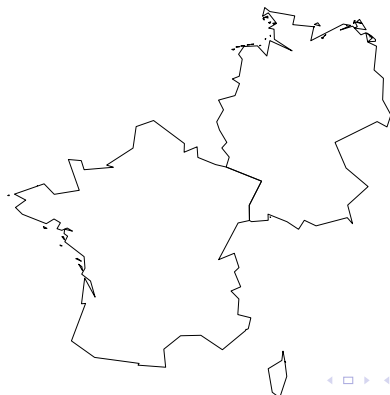
Südafrika

```
SouthAfrica <- wrld_simpl[wrld_simpl@data$NAME == "South Africa"]  
plot(SouthAfrica)
```



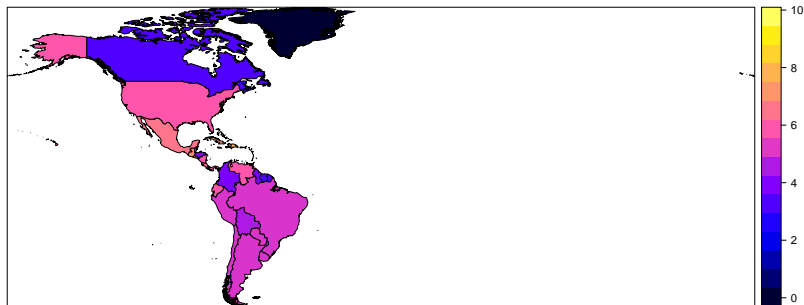
Mehrere Länder auswählen

```
EuropeList <- c('Germany', 'France')  
my_map <- wrld_simpl[wrld_simpl$NAME %in% EuropeList, ]  
  
plot(my_map)
```



Amerika plotten

```
library(sp)
america <- wrld_simpl[wrld_simpl@data$REGION==19,]
america$pop2area <- log(america@data$POP2005/america@data$A)
spplot(america,"pop2area")
```



Andere Farbpalette

```
library(colorRamps)
spplot(america,"POP2005",col.regions=blue2red(100))
```

