

Big - Mac - Index Datas

Jannick, Luc



	Country	iso_a3	currency_code	local_price	dollar_ex	gdp_per_capita
1	United Arab Emirates	ARE	AED	18.00	3.672900	76110.4
2	Argentina	ARG	ARS	7300.00	1050.000100	30082.0
3	Australia	AUS	AUD	7.75	1.591216	67979.0
4	Azerbaijan	AZE	AZN	6.24	1.700000	7428.0
5	Bahrain	BHR	BHD	1.70	0.377000	29886.0
6	Brazil	BRA	BRL	23.90	5.936700	10816.0
7	Canada	CAN	CAD	7.81	1.438450	55890.0
8	Switzerland	CHE	CHF	7.20	0.900850	111716.0
9	Chile	CHL	CLP	4490.00	987.250000	17927.0
10	China	CHN	CNY	25.50	7.247850	13873.0
11	Colombia	COL	COP	21900.00	4232.220000	7895.0
12	Costa Rica	CRI	CRC	2990.00	506.625000	18722.0
13	Czech Republic	CZE	CZK	109.00	23.891800	33038.0

Unser Dataset(grundlage_f)

```
bmf <- grundlage_f %>%  
  mutate(  
    dollar_price = local_price / dollar_ex,  
    dollar_ppp = local_price / price_usa,  
    bigmac_gdp = gdp_per_capita / dollar_price)
```

Berechnung der benötigten Spalten

	Country	iso_a3	currency_code	local_price	dollar_ex	gdp_per_capita	dollar_price	dollar_ppp	bigmac_gdp
1	United Arab Emirates	ARE	AED	18.00	3.672900	76110.4	4.900760	3.108808e+00	15530.3271
2	Argentina	ARG	ARS	7300.00	1050.000100	30082.0	6.952380	1.260794e+03	4326.8634
3	Australia	AUS	AUD	7.75	1.591216	67979.0	4.870488	1.338515e+00	13957.3297
4	Azerbaijan	AZE	AZN	6.24	1.700000	7428.0	3.670588	1.077720e+00	2023.6538
5	Bahrain	BHR	BHD	1.70	0.377000	29886.0	4.509284	2.936097e-01	6627.6600
6	Brazil	BRA	BRL	23.90	5.936700	10816.0	4.025806	4.127807e+00	2686.6672
7	Canada	CAN	CAD	7.81	1.438450	55890.0	5.429455	1.348877e+00	10293.8503
8	Switzerland	CHE	CHF	7.20	0.900850	111716.0	7.992452	1.243523e+00	13977.6887
9	Chile	CHL	CLP	4490.00	987.250000	17927.0	4.547987	7.754750e+02	3941.7440
10	China	CHN	CNY	25.50	7.247850	13873.0	3.518285	4.404145e+00	3943.1146
11	Colombia	COL	COP	21900.00	4232.220000	7895.0	5.174589	3.782383e+03	1525.7250
12	Costa Rica	CRI	CRC	2990.00	506.625000	18722.0	5.901801	5.164076e+02	3172.2519
13	Czech Republic	CZE	CZK	109.00	23.891800	33038.0	4.562235	1.882556e+01	7241.6265

options(scipen = 999)

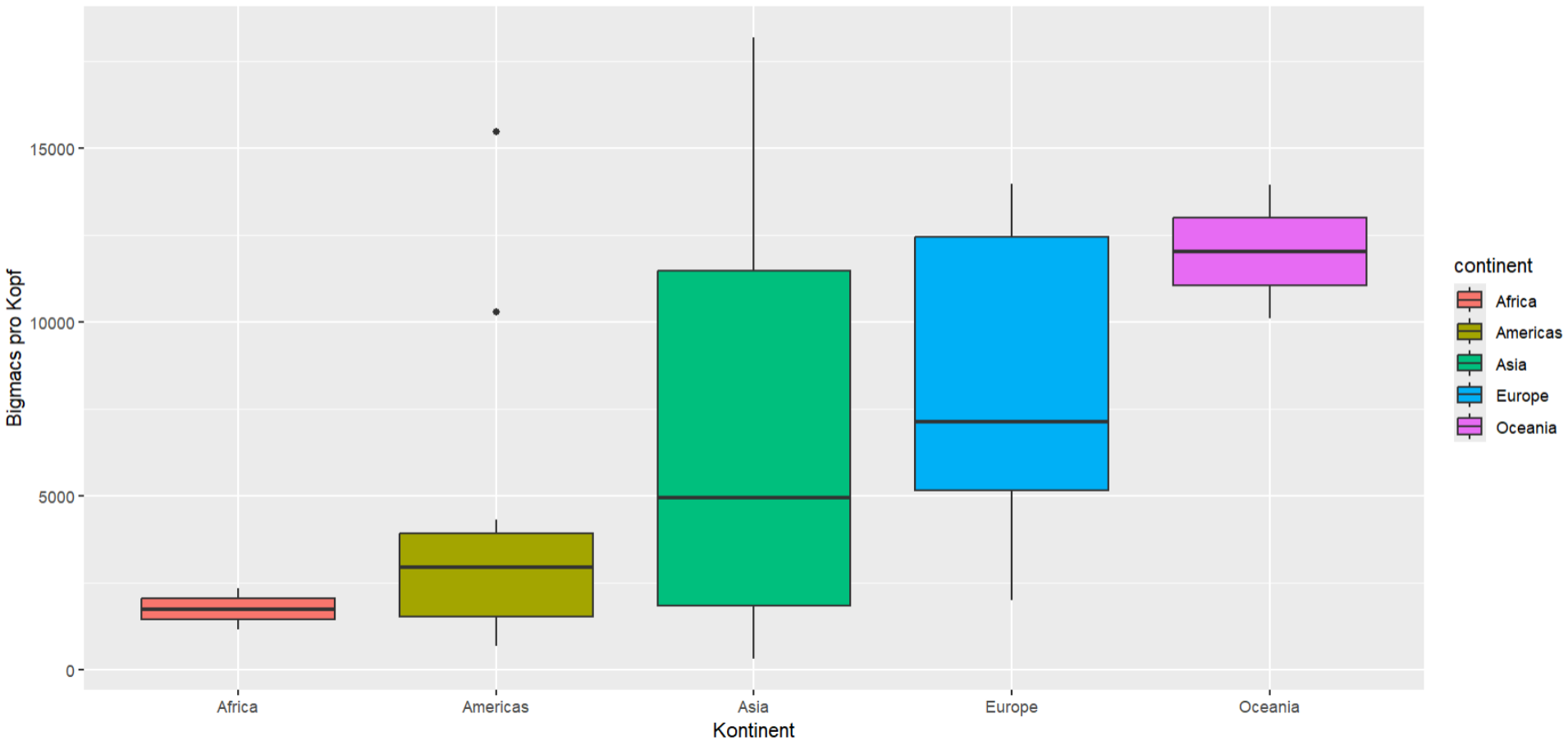
	Country	iso_a3	currency_code	local_price	dollar_ex	gdp_per_capita	dollar_price	dollar_ppp	bigmac_gdp
1	United Arab Emirates	ARE	AED	18.00	3.672900	76110.4	4.900760	3.1088083	15530.3271
2	Argentina	ARG	ARS	7300.00	1050.000100	30082.0	6.952380	1260.7944732	4326.8634
3	Australia	AUS	AUD	7.75	1.591216	67979.0	4.870488	1.3385147	13957.3297
4	Azerbaijan	AZE	AZN	6.24	1.700000	7428.0	3.670588	1.0777202	2023.6538
5	Bahrain	BHR	BHD	1.70	0.377000	29886.0	4.509284	0.2936097	6627.6600
6	Brazil	BRA	BRL	23.90	5.936700	10816.0	4.025806	4.1278066	2686.6672
7	Canada	CAN	CAD	7.81	1.438450	55890.0	5.429455	1.3488774	10293.8503
8	Switzerland	CHE	CHF	7.20	0.900850	111716.0	7.992452	1.2435233	13977.6887
9	Chile	CHL	CLP	4490.00	987.250000	17927.0	4.547987	775.4749568	3941.7440
10	China	CHN	CNY	25.50	7.247850	13873.0	3.518285	4.4041451	3943.1146
11	Colombia	COL	COP	21900.00	4232.220000	7895.0	5.174589	3782.3834197	1525.7250
12	Costa Rica	CRI	CRC	2990.00	506.625000	18722.0	5.901801	516.4075993	3172.2519
13	Czech Republic	CZE	CZK	109.00	23.891800	33038.0	4.562235	18.8255613	7241.6265

Fertige Tabelle (bmf)

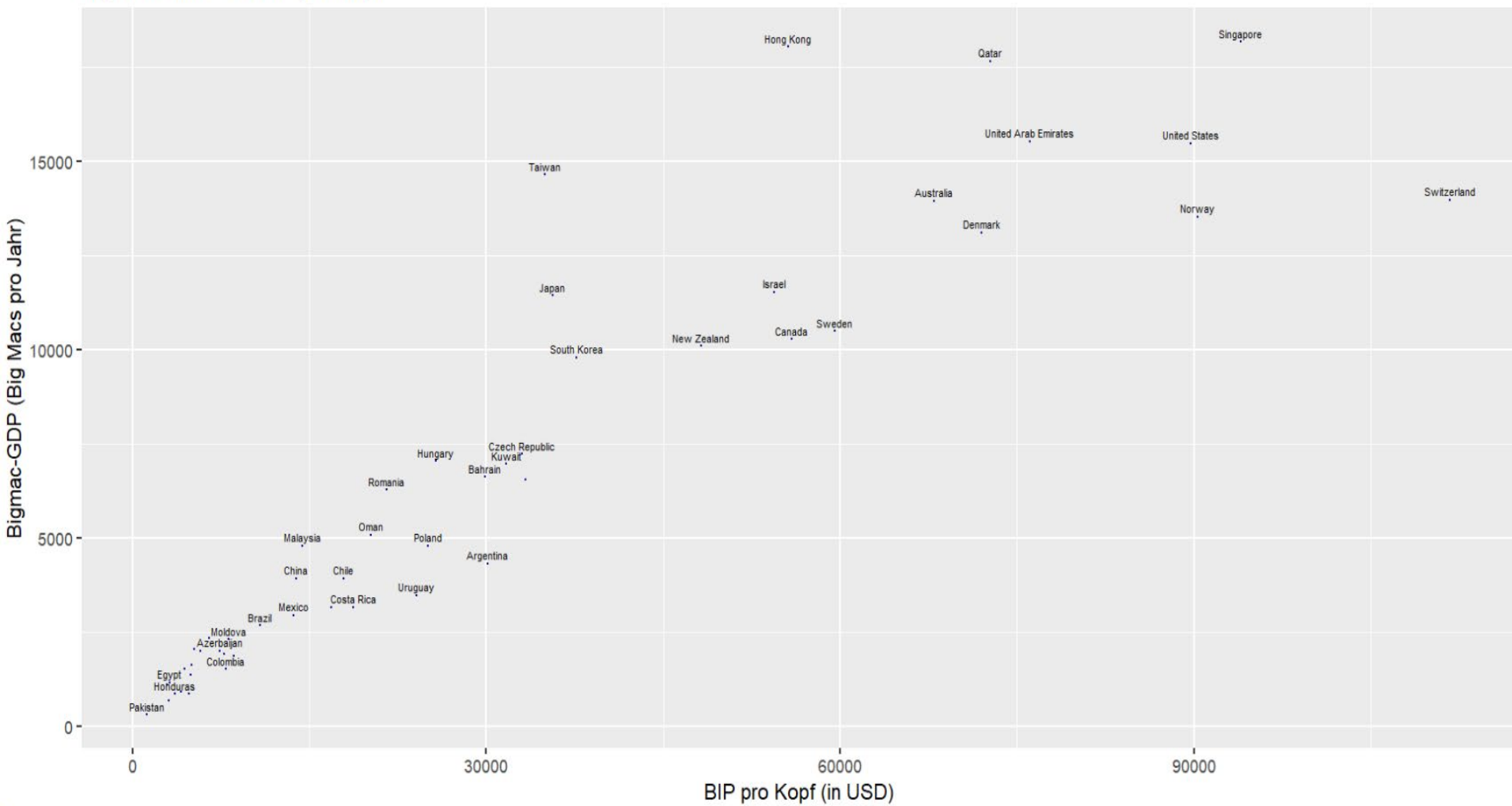
```
bmf <- bmf[-16, ]#Boxplot von Gdp von Kontinenten Euro Area löschen  
bmf$continent <- countrycode(sourcevar = bmf$Country,  
                             origin = "country.name",  
                             destination = "continent")  
ggplot(bmf, aes(x = continent, y = bigmac_gdp, fill = continent)) +  
  geom_boxplot() +  
  labs(title = "Bigmac-GDP nach Kontinent",  
        x = "Kontinent", y = "Bigmacs pro Kopf")
```

Boxplot Berechnung inklusive Einteilung in
Kontinente

Bigmac-GDP nach Kontinent



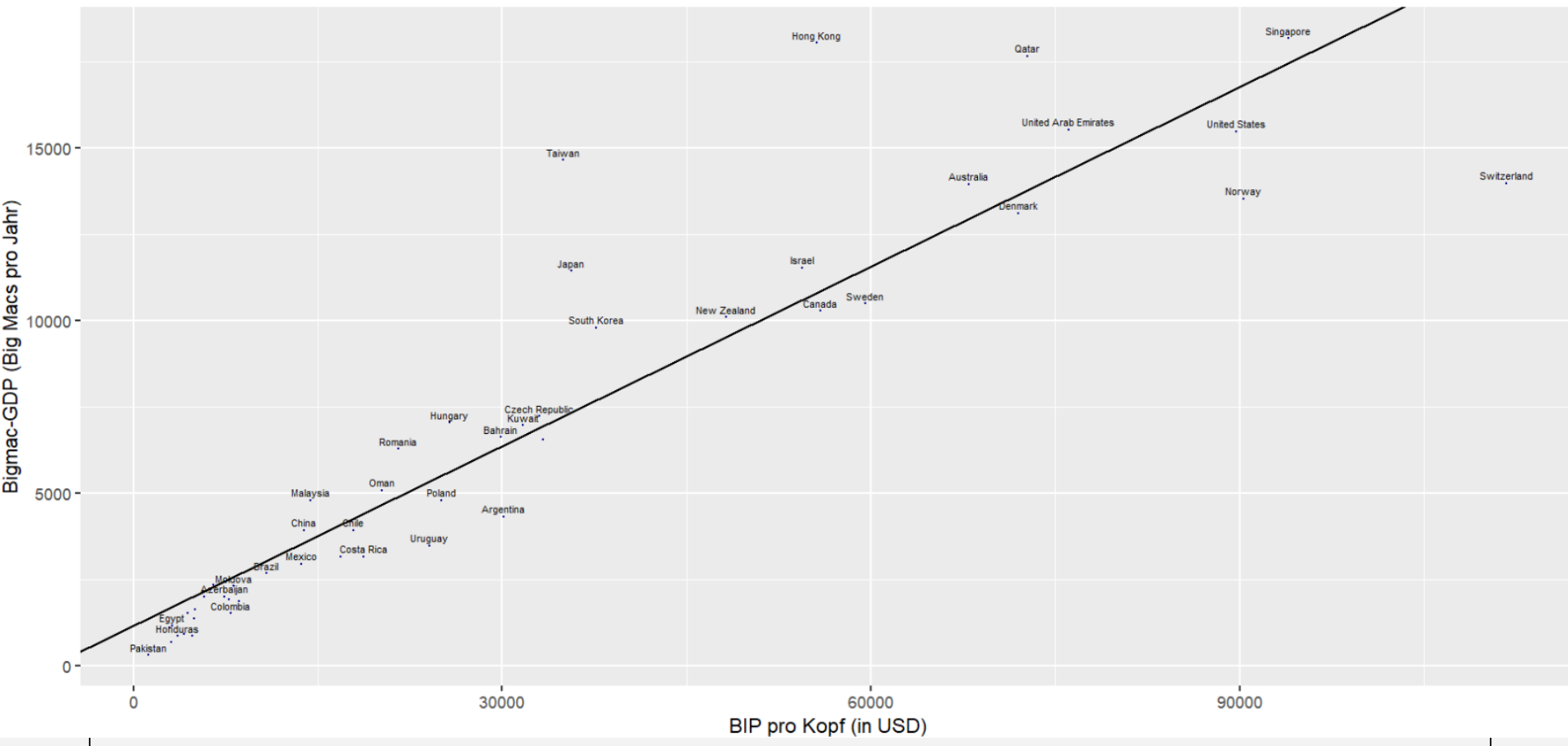
Bigmac-GDP vs. BIP pro Kopf




```
cor(bmf$gdp_per_capita, bmf$bigmac_gdp, use = "complete.obs")  
Regressionsgerade <- lm(bigmac_gdp ~ gdp_per_capita, data = bmf)  
summary(Regressionsgerade)  
geom_abline(intercept = 1182.0748, slope = 0.17338)
```

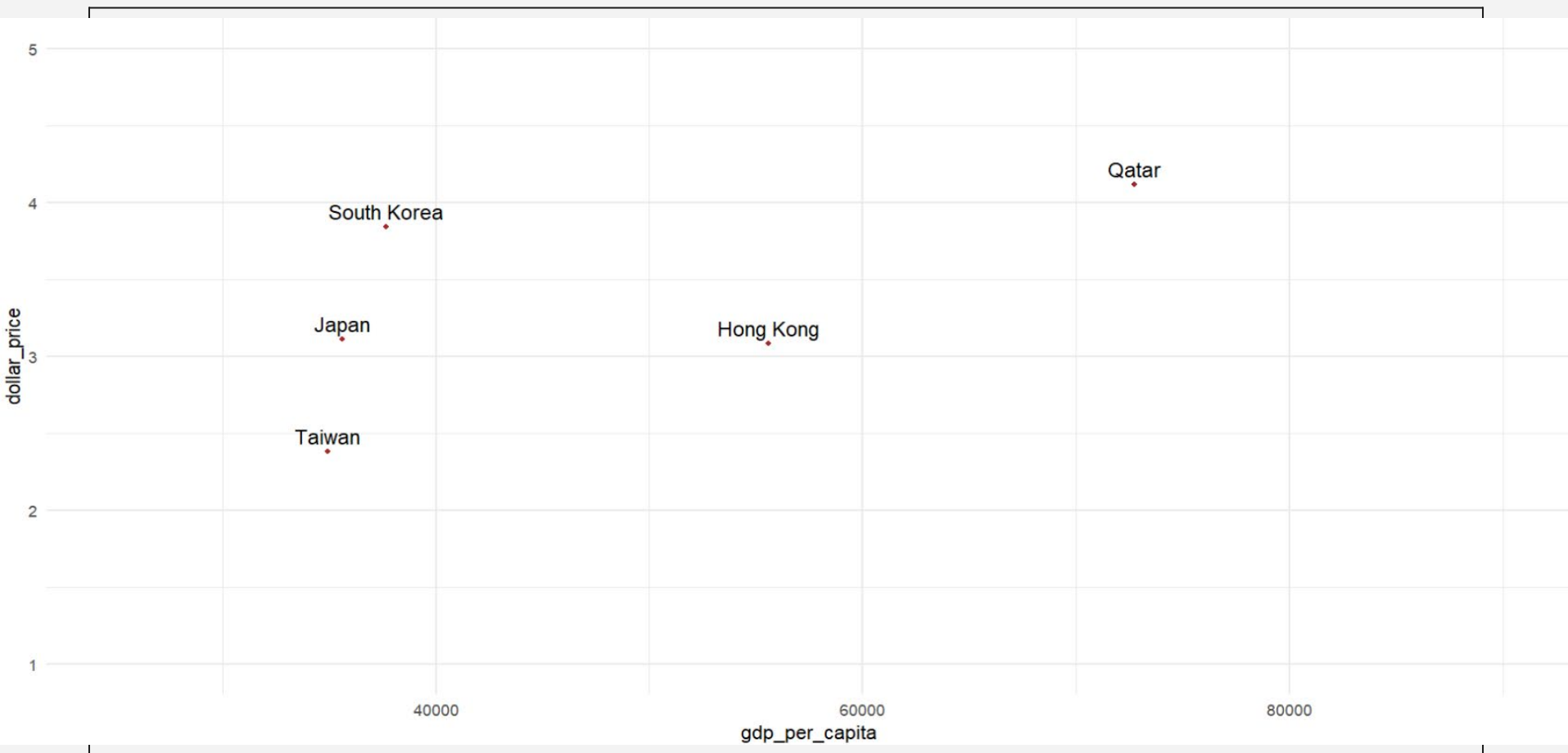
Berechnung der Korrelation und der
Regressionsgerade

Bigmac-GDP vs. BIP pro Kopf



```
guter_ferienort<-bmf %>% #ideale Ferienorte mit billigen Bigmacs aber guter Wirtschaft  
  filter(dollar_price<=4.5)%>%  
  filter(gdp_per_capita>30000)|
```

Voraussetzungen eines idealen Ferienortes





Dokumentation



Meine Arbeitsschritte

01

R-Markdown
verstehen

02

Luc's Code
verstehen

03

Code in . rmd
übertragen

04

Code
erklären

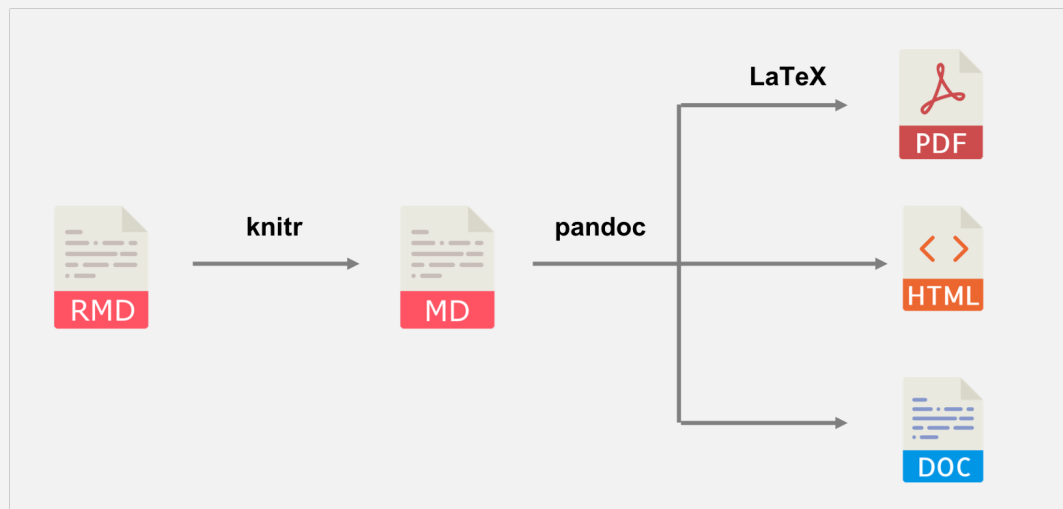
05

HTML & PDF
exportieren

06

HTML hosten ,
GitHub -Repo





Danke

