Blatt_2

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2024-04-30

5)

a)

```r
wdi <- get(load(here("C:/Users/famil/Documents/LiMo/data/wdi.Rdata")))
wdi <- wdi %>% filter(year == 2013)
str(wdi)
```

```
## 'data.frame':    217 obs. of  21 variables:
##  $ iso2c         : Factor w/ 217 levels "ABW","AFG","AGO",..: 2 4 56 9 5 3 10 7 8 1 ...
##  $ country       : Factor w/ 217 levels "Afghanistan",..: 1 2 3 4 5 6 7 8 9 10 ...
##  $ year          : Factor w/ 15 levels "2005","2006",..: 9 9 9 9 9 9 9 9 9 9 ...
##  $ GDP           : num  2.06e+10 1.28e+10 2.10e+11 6.41e+08 3.28e+09 ...
##  $ Merchandise   : num  44.1 56.6 57.2 135.3 NA ...
##  $ Population    : num  32269589 2895092 38140132 55713 80774 ...
##  $ Area          : num  652860 28750 2381740 200 470 ...
##  $ CO2emission   : num  10015 5064 134465 NA 477 ...
##  $ EqualityIndex : num  1.5 NA NA NA NA 3 NA NA 4.5 NA ...
##  $ Employees.F.AGR: num  69.91 53.17 3.33 NA NA ...
##  $ Employees.M.AGR: num  45.9 37.6 12.2 NA NA ...
##  $ Employees.M.IND: num  15.3 21.8 32.3 NA NA ...
##  $ Employees.F.IND: num  20.1 10.2 23.9 NA NA ...
##  $ Employees.F.SRV: num  10 36.6 72.7 NA NA ...
##  $ Employees.M.SRV: num  38.7 40.7 55.5 NA NA ...
##  $ Livestock     : num  104 111 142 100 NA ...
##  $ Unemployment.F : num  14.7 13.3 16.3 NA NA ...
##  $ Literacy      : num  NA NA NA NA NA ...
##  $ PopulationRural: num  24404522 1291587 11603754 7049 9259 ...
##  $ continent     : chr  "Asia" "Europe" "Africa" "Oceania" ...
##  $ region        : chr  "South Asia" "Europe & Central Asia" "Middle East & North Africa" "East Asia
```

```r
a1 <- ggplot(wdi, aes(x = Population)) +
  geom_density()
a2 <- ggplot(wdi, aes(x = CO2emission)) +
  geom_density()
a1 | a2
```

```
## Warning: Removed 1 rows containing non-finite values ('stat_density()').
```

```
## Warning: Removed 11 rows containing non-finite values ('stat_density()').
```
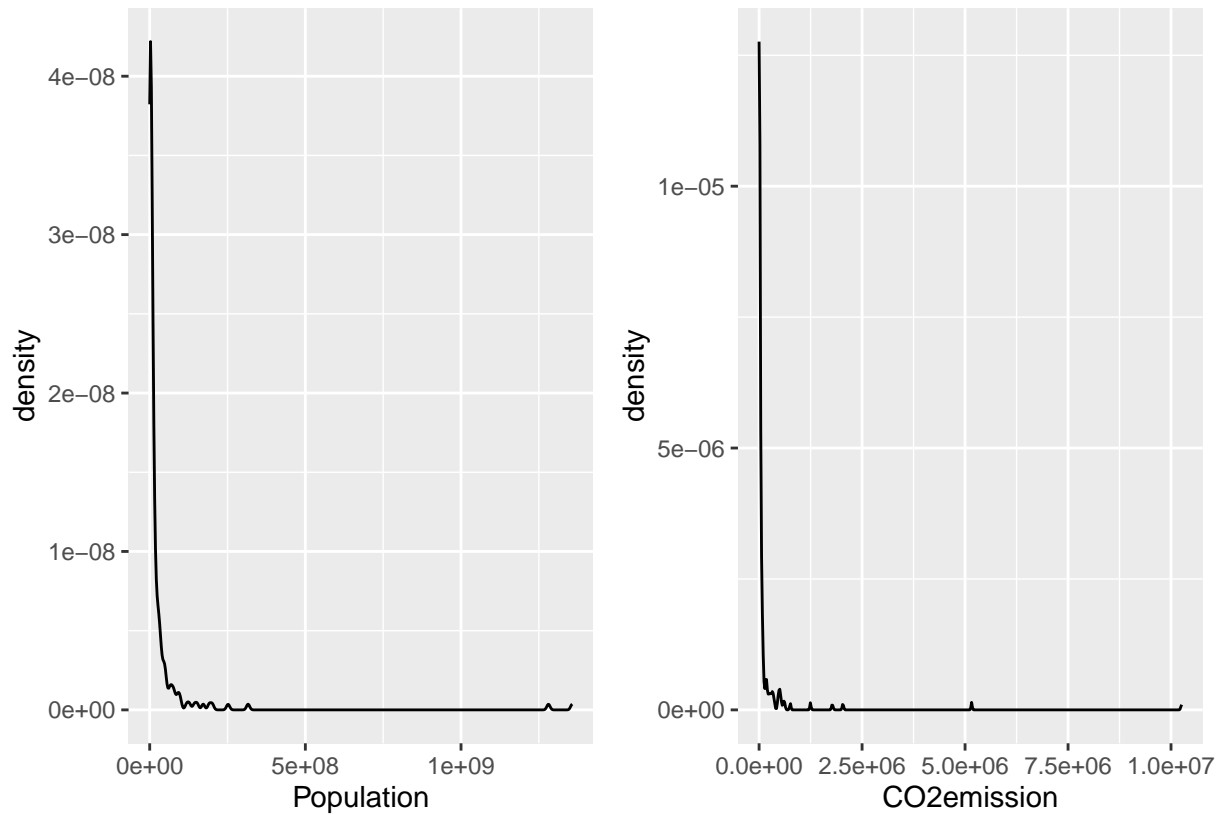
```r
# Bivariate Analyse
s3 <- ggplot(wdi, aes(x = Population, y = CO2emission)) +
  geom_point() +
  ggtitle("ohne Transformation")
s4 <- ggplot(wdi, aes(x = log10(Population), y = log10(CO2emission))) +
  geom_point() +
  ggtitle("mit Transformation")
s3|s4
```

```
## Warning: Removed 12 rows containing missing values (`geom_point()`).
```

```
## Warning: Removed 12 rows containing missing values (`geom_point()`).
```

ohne Transformation   mit Transformation