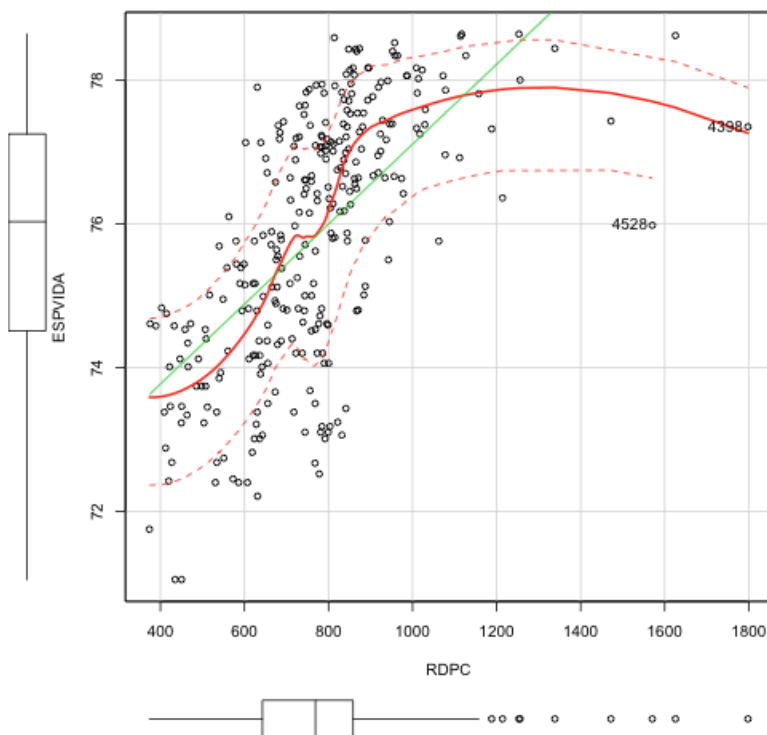


```
summary(RDPC_ESPVIDALinear, cor = FALSE)
```

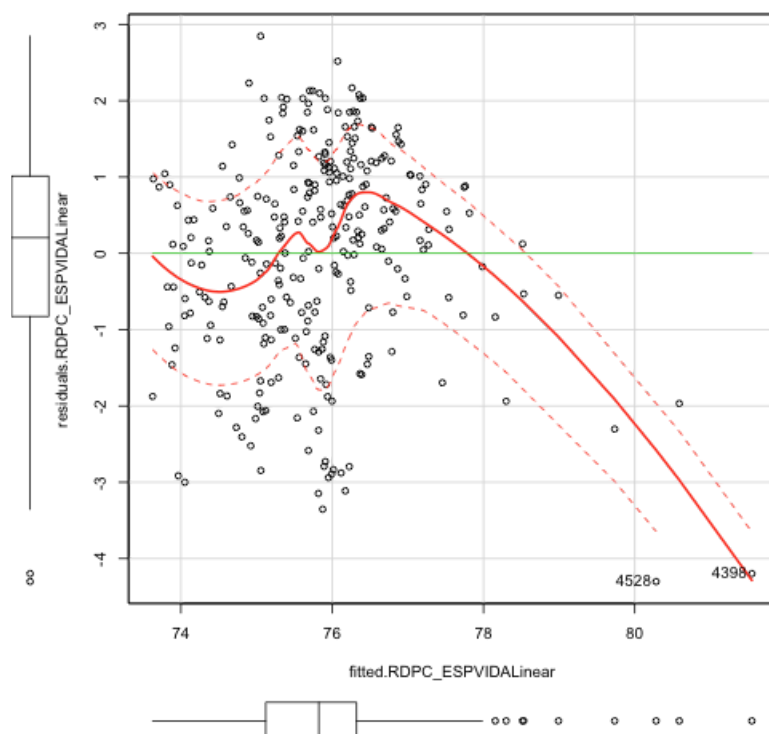
```
##
## Call:
## lm(formula = ESPVIDA ~ RDPC, data = DadosSc)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -4.302  -0.828   0.205   1.011   2.847
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  71.54612    0.31730   225.5  <2e-16 ***
## RDPC          0.00556    0.00040    13.9  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.37 on 291 degrees of freedom
## Multiple R-squared:  0.399, Adjusted R-squared:  0.397
## F-statistic: 193 on 1 and 291 DF, p-value: <2e-16
```

```
scatterplot(ESPVIDA ~ RDPC, reg.line = lm, smooth = TRUE, spread = TRUE, id.method = "mahal",
  id.n = 2, boxplots = "xy", span = 0.5, data = DadosSc)
```



```
## 4398 4528
## 88 218
```

```
scatterplot(residuals.RDPC_ESPVIDALinear ~ fitted.RDPC_ESPVIDALinear, reg.line = lm,
  smooth = TRUE, spread = TRUE, id.method = "mahal", id.n = 2, boxplots = "xy",
  span = 0.5, data = DadosSc)
```

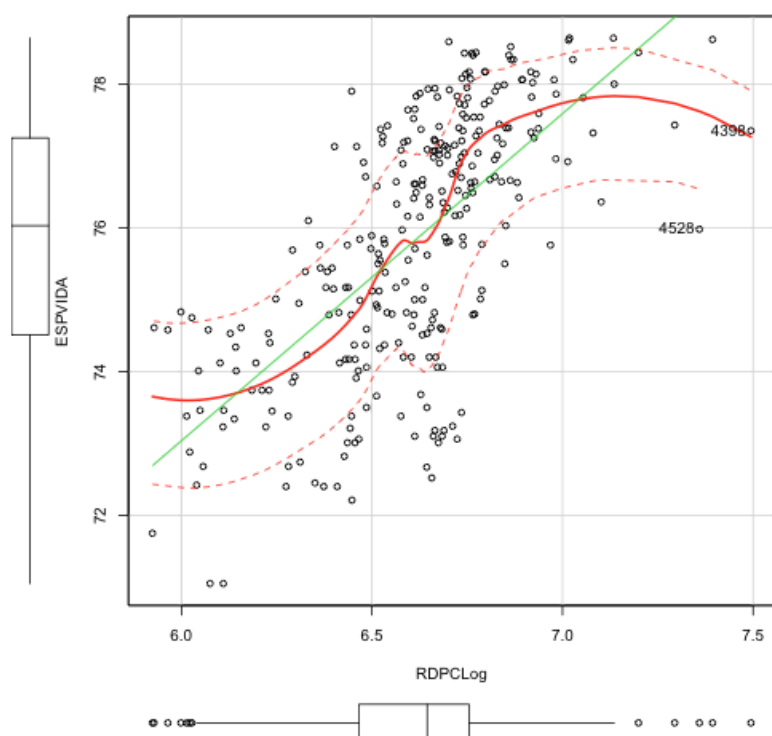


```
## 4398 4528
## 88 218
```

```
summary(RDPC_ESPVIDALog, cor = FALSE)
```

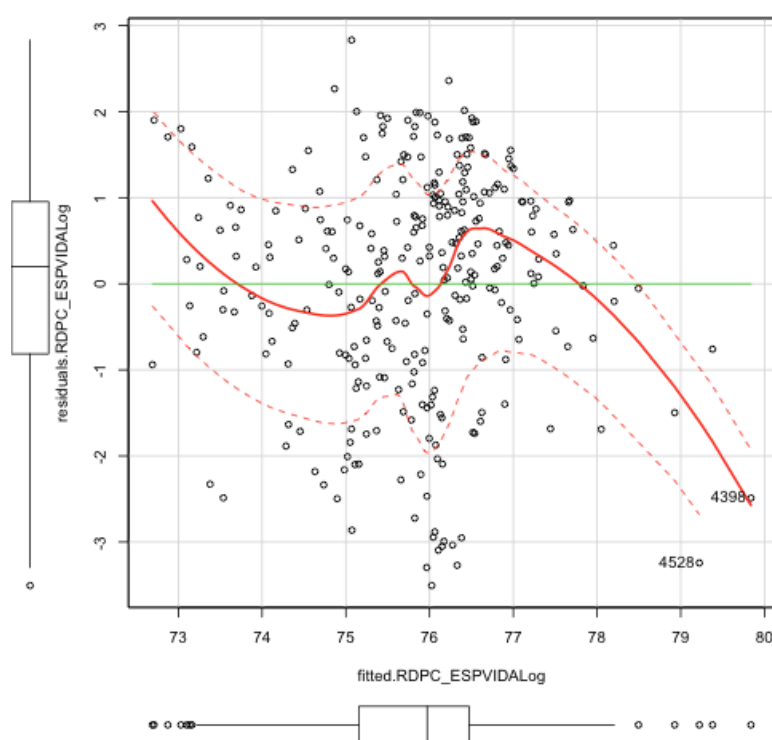
```
##
## Call:
## lm(formula = ESPVIDA ~ RDPCLog, data = DadosSc)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.506  -0.815   0.201   0.955   2.831
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  45.730      1.978    23.1   <2e-16 ***
## RDPCLog       4.551      0.299    15.2   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.32 on 291 degrees of freedom
## Multiple R-squared:  0.443, Adjusted R-squared:  0.441
## F-statistic: 232 on 1 and 291 DF, p-value: <2e-16
```

```
scatterplot(ESPVIDA ~ RDPCLog, reg.line = lm, smooth = TRUE, spread = TRUE,
            id.method = "mahal", id.n = 2, boxplots = "xy", span = 0.5, data = DadosSc)
```



```
## 4398 4528
##    88 218
```

```
scatterplot(residuals.RDPC_ESPVIDALog ~ fitted.RDPC_ESPVIDALog, reg.line = lm,
  smooth = TRUE, spread = TRUE, id.method = "mahal", id.n = 2, boxplots = "xy",
  span = 0.5, data = DadosSc)
```



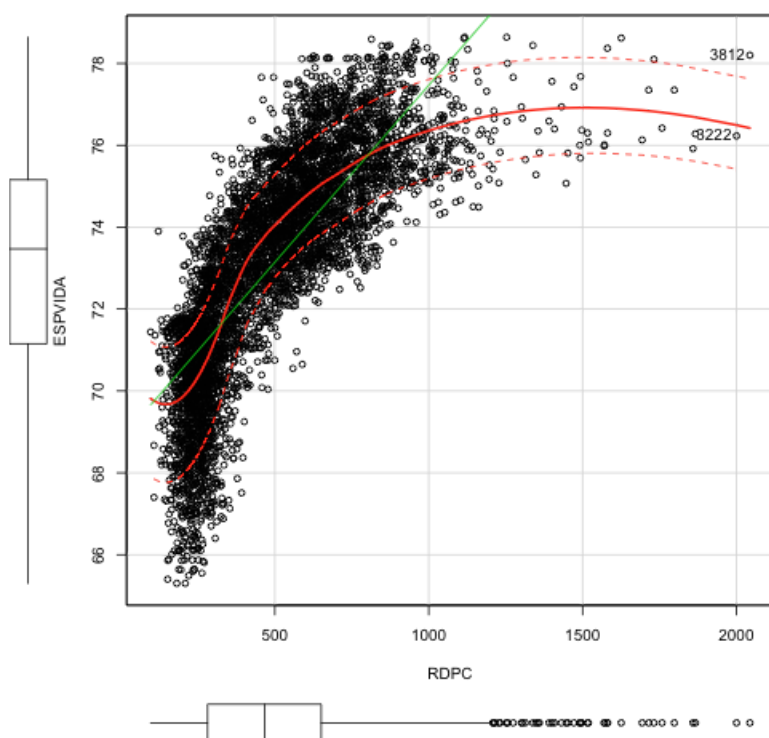
```
## 4398 4528
## 88 218
```

```
BRASIL_RDPC_ESPVIDALinear <- lm(ESPVIDA ~ RDPC, data = IDH)
summary(BRASIL_RDPC_ESPVIDALinear)
```

```
##
## Call:
## lm(formula = ESPVIDA ~ RDPC, data = IDH)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -9.879 -0.965  0.145  1.154  4.892
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  6.88e+01  5.05e-02  1364.2  <2e-16 ***
## RDPC          8.64e-03  9.17e-05   94.2  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.66 on 5563 degrees of freedom
## Multiple R-squared:  0.615, Adjusted R-squared:  0.615
## F-statistic: 8.88e+03 on 1 and 5563 DF, p-value: <2e-16
```

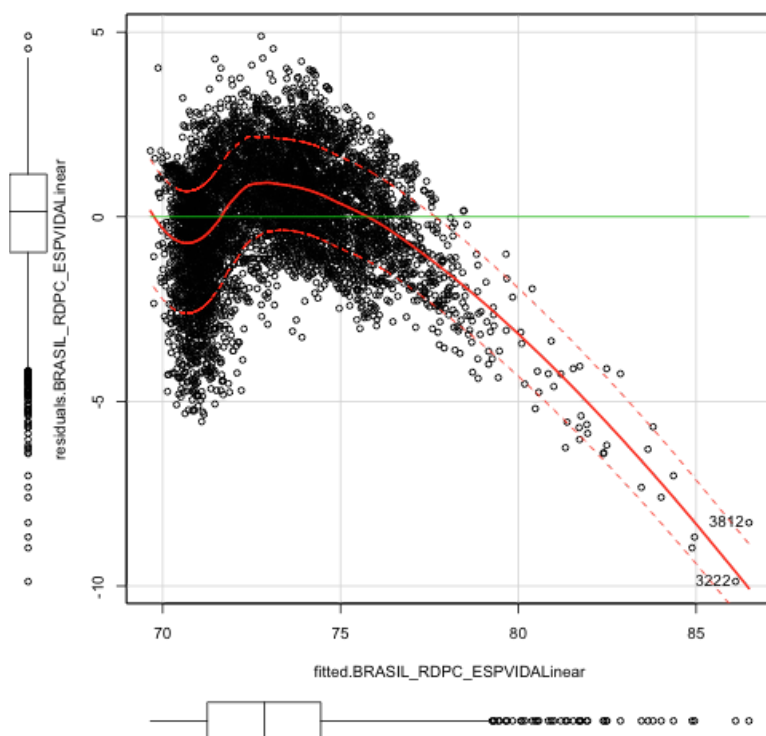
```
IDH$fitted.BRASIL_RDPC_ESPVIDALinear <- fitted(BRASIL_RDPC_ESPVIDALinear)
IDH$residuals.BRASIL_RDPC_ESPVIDALinear <- residuals(BRASIL_RDPC_ESPVIDALinear)
```

```
scatterplot(ESPVIDA ~ RDPC, reg.line = lm, smooth = TRUE, spread = TRUE, id.method = "mahal",
            id.n = 2, boxplots = "xy", span = 0.5, data = IDH)
```



```
## 3222 3812
## 3222 3812
```

```
scatterplot(residuals.BRASIL_RDPC_ESPVIDALinear ~ fitted.BRASIL_RDPC_ESPVIDALinear,
  reg.line = lm, smooth = TRUE, spread = TRUE, id.method = "mahal", id.n = 2,
  boxplots = "xy", span = 0.5, data = IDH)
```



```
## 3222 3812
## 3222 3812
```

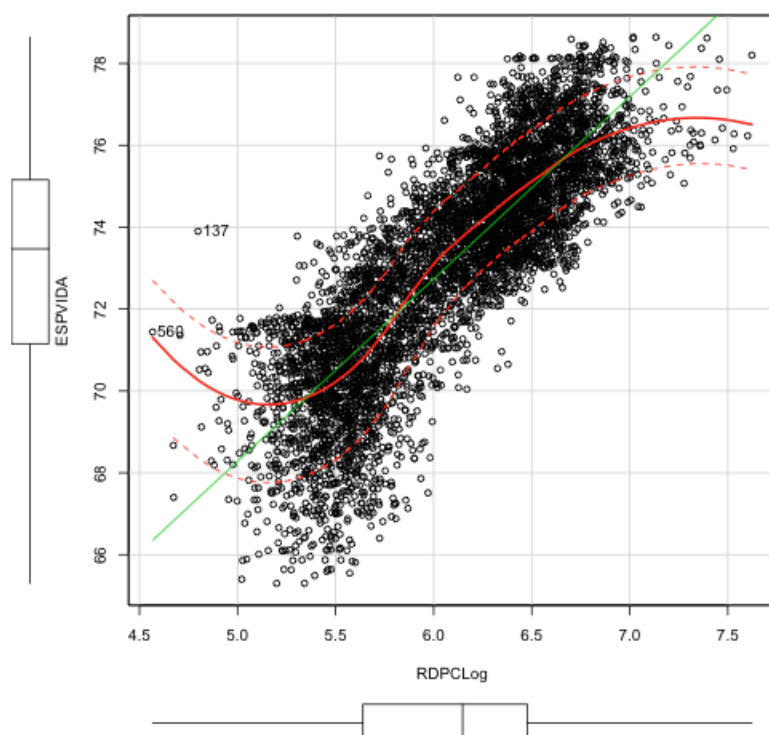
```
IDH$RDPCLog <- with(IDH, log(RDPC))
```

```
BRASIL_RDPC_ESPVIDALog <- lm(ESPVIDA ~ RDPCLog, data = IDH)
summary(BRASIL_RDPC_ESPVIDALog)
```

```
##
## Call:
## lm(formula = ESPVIDA ~ RDPCLog, data = IDH)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -5.278 -0.941  0.053  1.056  6.518
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  46.0147    0.2412    191    <2e-16 ***
## RDPCLog       4.4531    0.0395    113    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.48 on 5563 degrees of freedom
## Multiple R-squared:  0.695, Adjusted R-squared:  0.695
## F-statistic: 1.27e+04 on 1 and 5563 DF, p-value: <2e-16
```

```
IDH$fitted.BRASIL_RDPC_ESPVIDALog <- fitted(BRASIL_RDPC_ESPVIDALog)
IDH$residuals.BRASIL_RDPC_ESPVIDALog <- residuals(BRASIL_RDPC_ESPVIDALog)
```

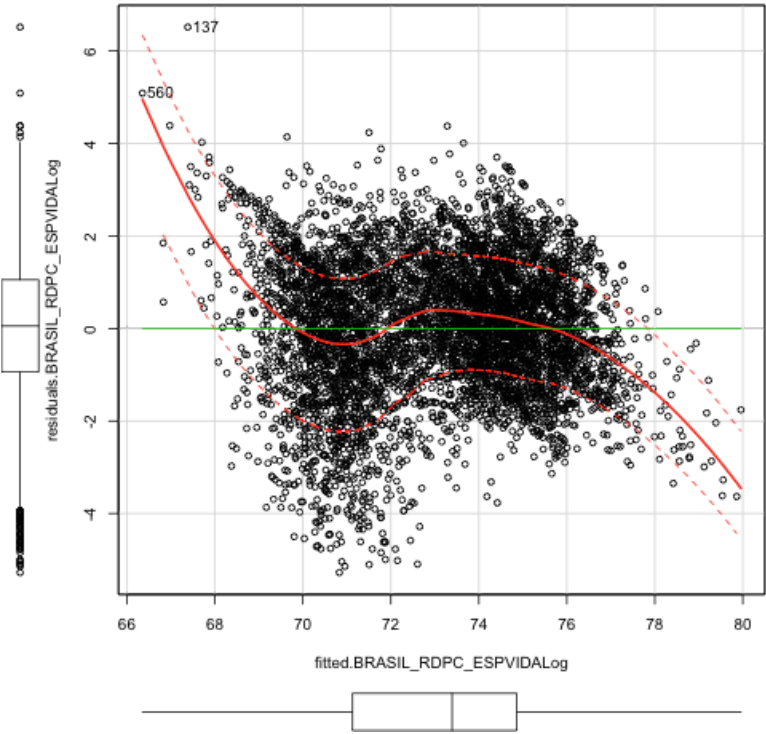
```
scatterplot(ESPVIDA ~ RDPCLog, reg.line = lm, smooth = TRUE, spread = TRUE,
  id.method = "mahal", id.n = 2, boxplots = "xy", span = 0.5, data = IDH)
```



```
## 137 560
```

```
## 137 560
```

```
scatterplot(residuals.BRASIL_RDPC_ESPVIDALog ~ fitted.BRASIL_RDPC_ESPVIDALog,
  reg.line = lm, smooth = TRUE, spread = TRUE, id.method = "mahal", id.n = 2,
  boxplots = "xy", span = 0.5, data = IDH)
```



```
## 137 560
## 137 560
```