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# 1 Minha limpeza

## 1.1 Estado inicial

- Alcohol e Total.expenditure têm ~180 dados faltando (mais da metade dos países e de países diferentes)

Status	Life.expectancy	Adult.Mortality	infant.deaths
Min. :1.000	Min. :51.00	Min. : 1.0	Min. : 0.0
1st Qu.:2.000	1st Qu.:65.75	1st Qu.: 74.0	1st Qu.: 0.0
Median :2.000	Median :73.90	Median :138.0	Median : 2.0
Mean :1.825	Mean :71.62	Mean :152.9	Mean : 23.8
3rd Qu.:2.000	3rd Qu.:76.95	3rd Qu.:213.0	3rd Qu.: 17.0
Max. :2.000	Max. :88.00	Max. :484.0	Max. :910.0

Alcohol	percentage.expenditure	Hepatitis.B	Measles
Min. : 0.010	Min. : 0.000	Min. : 6.00	Min. : 0
1st Qu.: 2.493	1st Qu.: 0.000	1st Qu.:78.75	1st Qu.: 0
Median : 5.285	Median : 0.000	Median :93.00	Median : 17
Mean : 5.288	Mean : 2.384	Mean :82.43	Mean : 1503
3rd Qu.: 8.018	3rd Qu.: 0.000	3rd Qu.:97.00	3rd Qu.: 202
Max. :10.660	Max. :364.975	Max. :99.00	Max. :90387
NA's :177		NA's :9	

BMI	under.five.deaths	Polio	Total.expenditure
Min. : 2.50	Min. : 0.00	Min. : 5.00	Min. :6.00
1st Qu.:24.30	1st Qu.: 0.00	1st Qu.:83.00	1st Qu.:6.54
Median :48.60	Median : 3.00	Median :93.00	Median :7.08
Mean :42.75	Mean : 31.61	Mean :83.21	Mean :7.08
3rd Qu.:61.40	3rd Qu.: 21.00	3rd Qu.:97.00	3rd Qu.:7.62
Max. :77.60	Max. :1100.00	Max. :99.00	Max. :8.16
NA's :2			NA's :181

Diphtheria	HIV.AIDS	GDP	Population
Min. : 6.00	Min. :0.1000	Min. : 33.68	Min. : 2966
1st Qu.:83.50	1st Qu.:0.1000	1st Qu.: 766.01	1st Qu.: 268071
Median :93.00	Median :0.1000	Median : 2916.23	Median : 2076086
Mean :84.63	Mean :0.6607	Mean : 7185.33	Mean : 11097408
3rd Qu.:97.00	3rd Qu.:0.4000	3rd Qu.: 7290.11	3rd Qu.: 9940296
Max. :99.00	Max. :9.3000	Max. :66346.52	Max. :258162113
		NA's :29	NA's :41

thinness...1.19.years	thinness.5.9.years	Income.composition.of.resources
Min. : 0.100	Min. : 0.100	Min. :0.3470

1st Qu.: 1.500	1st Qu.: 1.500	1st Qu.:0.5650
Median : 3.500	Median : 3.400	Median :0.7230
Mean : 4.535	Mean : 4.576	Mean :0.6917
3rd Qu.: 6.500	3rd Qu.: 6.400	3rd Qu.:0.7980
Max. :26.700	Max. :27.300	Max. :0.9480
NA's :2	NA's :2	NA's :10

#### Schooling

Min. : 4.90  
 1st Qu.:10.80  
 Median :13.10  
 Mean :12.93  
 3rd Qu.:15.00  
 Max. :20.40  
 NA's :10

## 1.2 Processamento

- Country e Year
- Muitos dados faltando: Alcohol, Total.expenditure.
- Após retirada de ambos, ainda foi feita a retirada dos dados nulos.

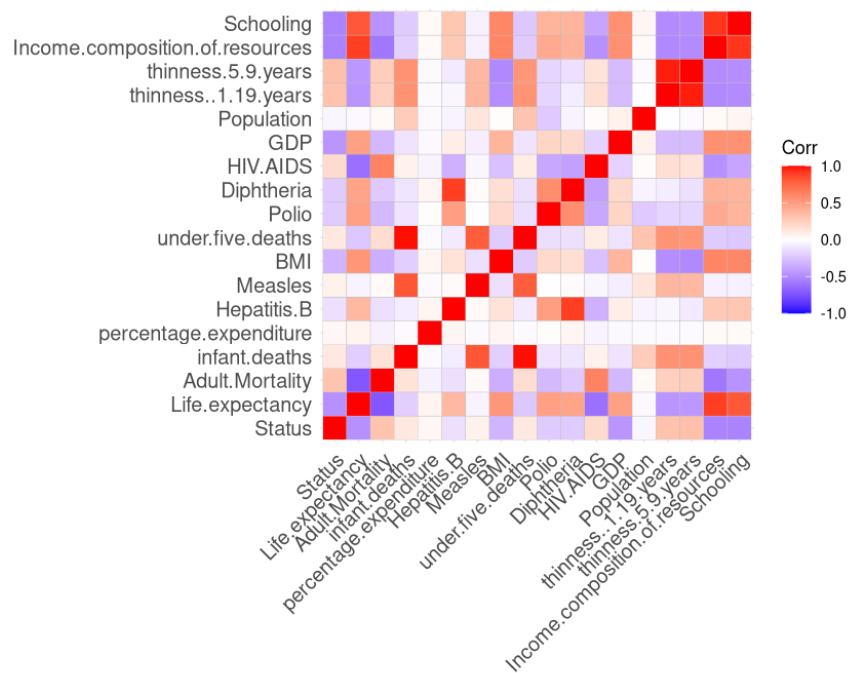
---

```
life_2015_clean <- na.omit(life_2015_clean) ## eliminando dados nulos
```

---

## 2 Plot correlação após limpeza dos dados

- Dados que possuem pouquíssima correlação com qualquer outros dados:
  - `percentage.expenditure` (Quantidade gasta em saúde (percentagem do PIB)).
  - `Measles` (Rubeola).
  - `Population` (Tamanho da população).



### 3 Plot enviado pelo Jose

- Provável problema:
  - Muitos dados faltando: Alcohol, Total.expenditure.

