

## Lista 04

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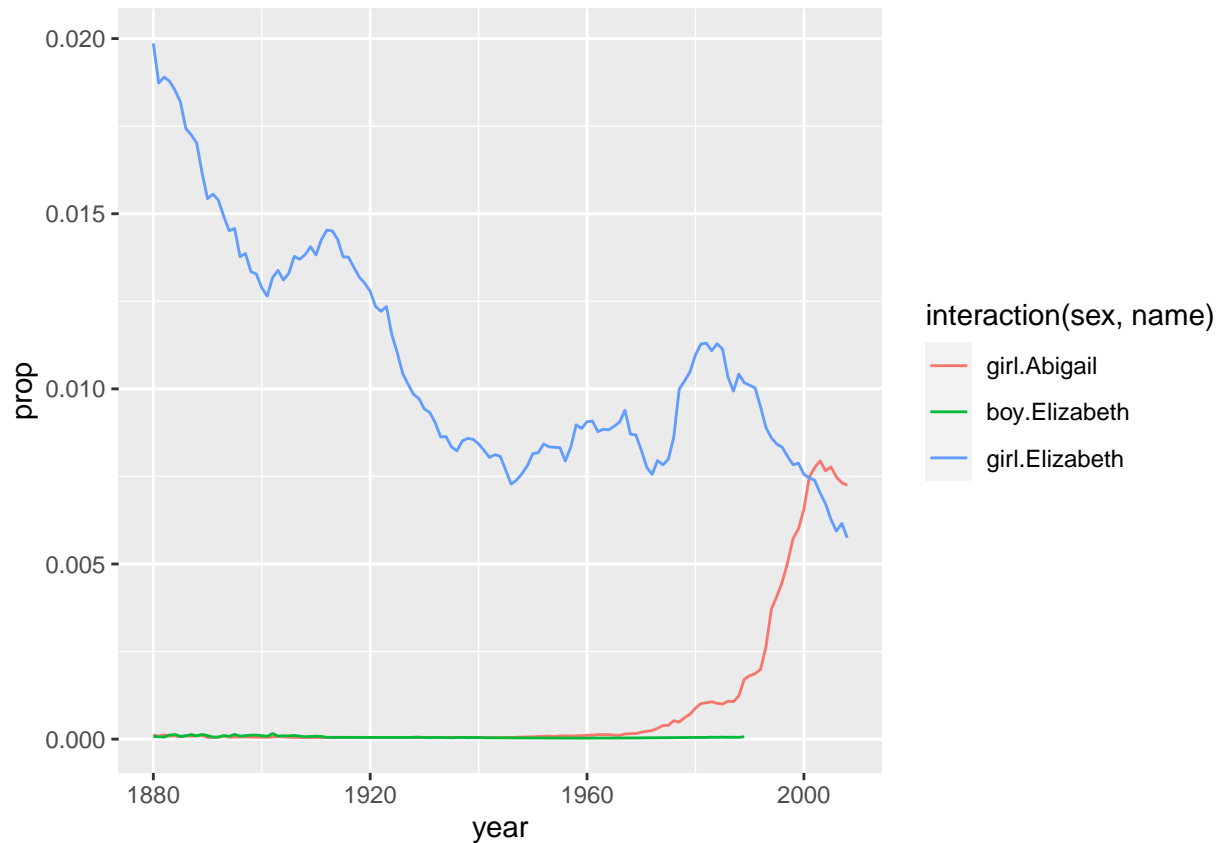
##	year	name	prop	sex	soundex
## 1	1880	John	0.081541	boy	J500
## 2	1880	William	0.080511	boy	W450
## 3	1880	James	0.050057	boy	J520
## 4	1880	Charles	0.045167	boy	C642
## 5	1880	George	0.043292	boy	G620
## 6	1880	Frank	0.027380	boy	F652

##	year	sex	births
## 1	1880	boy	118405
## 2	1881	boy	108290
## 3	1882	boy	122034
## 4	1883	boy	112487
## 5	1884	boy	122745
## 6	1885	boy	115948

B

Emily, Emma, Madison, Hanna,Olivia, Abigail, Alexis, Ashley, Elizabeth e Samantha

C



D

```
## Joining, by = c("year", "sex")

##   year   name    prop sex soundex births    n
## 1 1880   John 0.081541 boy   J500 118405 9655
## 2 1880 William 0.080511 boy   W450 118405 9533
## 3 1880   James 0.050057 boy   J520 118405 5927
## 4 1880 Charles 0.045167 boy   C642 118405 5348
## 5 1880  George 0.043292 boy   G620 118405 5126
## 6 1880   Frank 0.027380 boy   F652 118405 3242
```

e

A função **str\_sub** é usada para obter uma parte fixa de uma string, como, por exemplo, manipular textos. **str\_sub** seleciona todos os argumentos para terem o mesmo comprimento que o argumento mais longo. Se algum argumento tiver comprimento 0, a saída será um vetor de caracteres de comprimento zero.

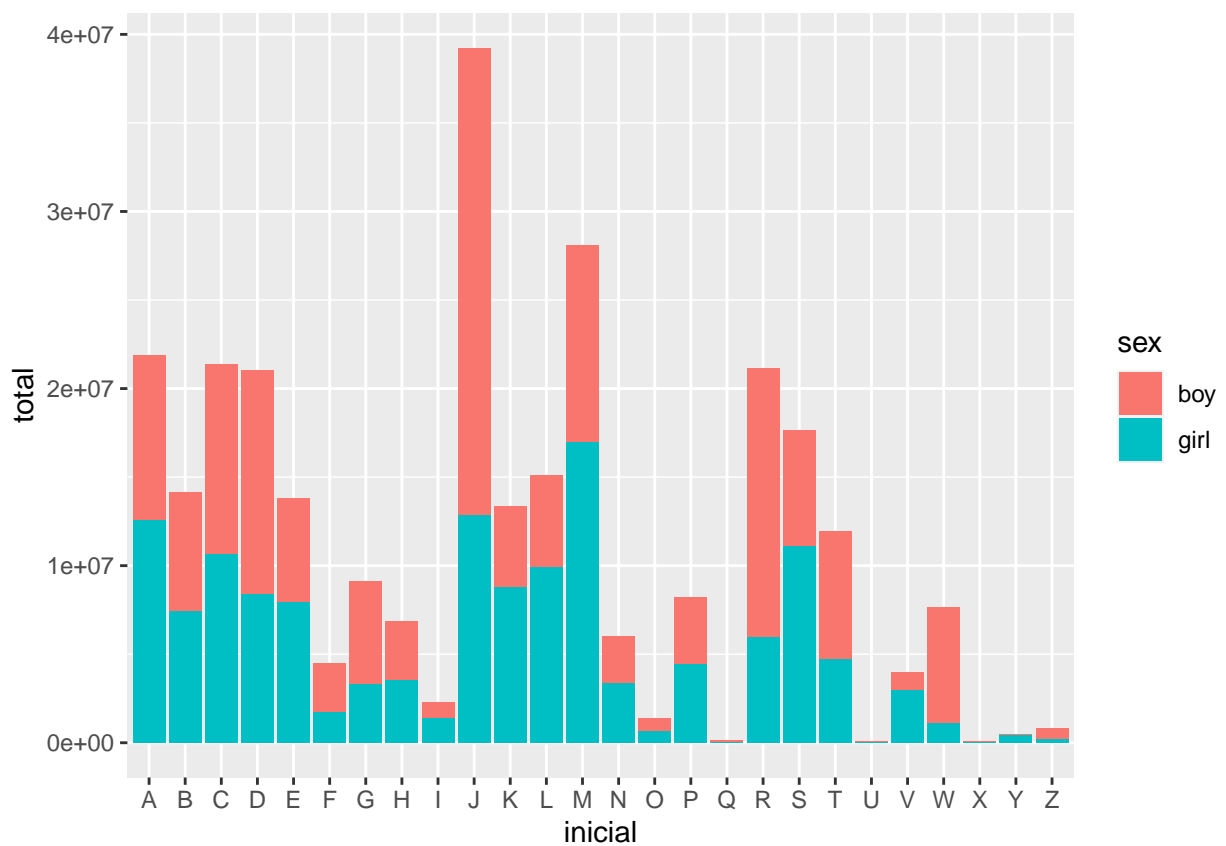
f

```
##   year   name    prop sex soundex births    n inicial
## 1 1880   John 0.081541 boy   J500 118405 9655      J
## 2 1880 William 0.080511 boy   W450 118405 9533      W
## 3 1880   James 0.050057 boy   J520 118405 5927      J
## 4 1880 Charles 0.045167 boy   C642 118405 5348      C
## 5 1880  George 0.043292 boy   G620 118405 5126      G
## 6 1880   Frank 0.027380 boy   F652 118405 3242      F
```

g

```
## `summarise()` regrouping output by 'inicial', 'sex' (override with `.groups` argument)
```

```
## `summarise()` regrouping output by 'inicial' (override with `.groups` argument)
## # A tibble: 52 x 3
## # Groups:   inicial [26]
##   inicial sex      total
##   <chr>   <fct>   <dbl>
## 1 J      boy    26368455
## 2 M      girl   16997360
## 3 R      boy    15141247
## 4 J      girl   12864805
## 5 D      boy    12669263
## 6 A      girl   12558111
## 7 S      girl   11104338
## 8 M      boy    11090123
## 9 C      boy    10762976
## 10 C     girl    10630890
## # ... with 42 more rows
##
## Attaching package: 'reshape2'
## The following object is masked from 'package:tidyr':
##
##   smiths
```



H