

Luxemburg Project

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0.1 Luxemburg Data Project

```
library(dplyr)
```

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':

filter, lag

The following objects are masked from 'package:base':

intersect, setdiff, setequal, union

```
library(purrr)
library(readxl)
library(stringr)
library(janitor)
```

Attaching package: 'janitor'

The following objects are masked from 'package:stats':

```
chisq.test, fisher.test
```

0.2 Gettting Data

```
url <- "https://github.com/b-rodrigues/rap4all/raw/master/datasets/vente-maison-2010-2021."

# Shortened url

#url <- "https://is.gd/1vvBAc"

raw_data <- tempfile(fileext = ".xlsx")

download.file(url, raw_data, method = "auto", mode = "wb")

sheets <- excel_sheets(raw_data)

read_clean <- function(..., sheet){

  read_excel(..., sheet = sheet) |>

  mutate(year = sheet)

}

raw_data <- map(

  sheets,

  ~read_clean(raw_data,

               skip = 10,

               sheet = .)
```

```
) |>

bind_rows() |>

clean_names()
```

New names:
 * `*` -> `*...3`
 * `*` -> `*...4`

Let's see the neat data:

```
raw_data
```

```
# A tibble: 1,343 x 9
  commune      nombre_doffres prix_moyen_annonce_e~1 prix_moyen_annonce_a~2 year
  <chr>          <dbl> <chr>          <chr>          <chr>
1 Bascharage      192 593698.31000000006 3603.57      2010
2 Beaufort        266 461160.29      2902.76      2010
3 Bech            65 621760.22      3280.51      2010
4 Beckerich       176 444498.68      2867.88      2010
5 Berdorf        111 504040.85      3055.99      2010
6 Bertrange      264 795338.87      4266.46      2010
7 Bettembou~     304 555628.29      3343.22      2010
8 Bettendorf      94 495074.38      3235.26      2010
9 Betzdorf       119 625914.47      3343.05      2010
10 Bissen         70 516465.57      3321.65      2010
# i 1,333 more rows
# i abbreviated names: 1: prix_moyen_annonce_en_courant,
#   2: prix_moyen_annonce_au_m2_en_courant
# i 4 more variables: bech <chr>, x12 <dbl>, x3 <chr>, x4 <chr>
```

Some variables has their original names and we will change them to English.

```
raw_data <- raw_data |>

rename(

  locality = commune,
```

```

n_offers = nombre_doffres,

average_price_nominal_euros = prix_moyen_annonce_en_courant,

# average_price_m2_nominal_euros = prix_moyen_annonce_au_m2_en_courant,

average_price_m2_nominal_euros = prix_moyen_annonce_au_m2_en_courant

) |>

mutate(locality = str_trim(locality)) |>

select(year, locality, n_offers, starts_with("average"))

```

```

raw_data |>
  filter(grepl('Luxembourg', locality)) |>
  count(locality)

```

```

# A tibble: 2 x 2
  locality      n
  <chr>        <int>
1 Luxembourg      9
2 Luxembourg-Ville 2

```

```

raw_data |>
  filter(grepl('P.tange', locality)) |>
  count(locality)

```

```

# A tibble: 2 x 2
  locality      n
  <chr>        <int>
1 Petange      9
2 Pétange      2

```

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

0.3 Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

```
[1] 2
```

You can add options to executable code like this

```
[1] 4
```

The `echo: false` option disables the printing of code (only output is displayed).