

Un rapport dynamique avec RMarkdown

Jimmy Lopez

13 novembre, 2018

h1 title

h2 title

h3 title

h4 title

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document.

R code

You can embed an R code chunk like this:

```
##           mpg cyl  disp  hp drat   wt  qsec vs am gear carb
## Mazda RX4      21.0   6 160.0 110 3.90 2.620 16.46 0  1    4    4
## Mazda RX4 Wag  21.0   6 160.0 110 3.90 2.875 17.02 0  1    4    4
## Datsun 710      22.8   4 108.0  93 3.85 2.320 18.61 1  1    4    1
## Hornet 4 Drive  21.4   6 258.0 110 3.08 3.215 19.44 1  0    3    1
## Hornet Sportabout 18.7   8 360.0 175 3.15 3.440 17.02 0  0    3    2
## Valiant         18.1   6 225.0 105 2.76 3.460 20.22 1  0    3    1
## Duster 360      14.3   8 360.0 245 3.21 3.570 15.84 0  0    3    4
## Merc 240D       24.4   4 146.7  62 3.69 3.190 20.00 1  0    4    2
## Merc 230        22.8   4 140.8  95 3.92 3.150 22.90 1  0    4    2
## Merc 280        19.2   6 167.6 123 3.92 3.440 18.30 1  0    4    4
## Merc 280C       17.8   6 167.6 123 3.92 3.440 18.90 1  0    4    4
## Merc 450SE      16.4   8 275.8 180 3.07 4.070 17.40 0  0    3    3
## Merc 450SL      17.3   8 275.8 180 3.07 3.730 17.60 0  0    3    3
## Merc 450SLC     15.2   8 275.8 180 3.07 3.780 18.00 0  0    3    3
## Cadillac Fleetwood 10.4   8 472.0 205 2.93 5.250 17.98 0  0    3    4
## Lincoln Continental 10.4   8 460.0 215 3.00 5.424 17.82 0  0    3    4
## Chrysler Imperial 14.7   8 440.0 230 3.23 5.345 17.42 0  0    3    4
## Fiat 128        32.4   4  78.7  66 4.08 2.200 19.47 1  1    4    1
## Honda Civic     30.4   4  75.7  52 4.93 1.615 18.52 1  1    4    2
## Toyota Corolla  33.9   4  71.1  65 4.22 1.835 19.90 1  1    4    1
## Toyota Corona   21.5   4 120.1  97 3.70 2.465 20.01 1  0    3    1
## Dodge Challenger 15.5   8 318.0 150 2.76 3.520 16.87 0  0    3    2
## AMC Javelin     15.2   8 304.0 150 3.15 3.435 17.30 0  0    3    2
```

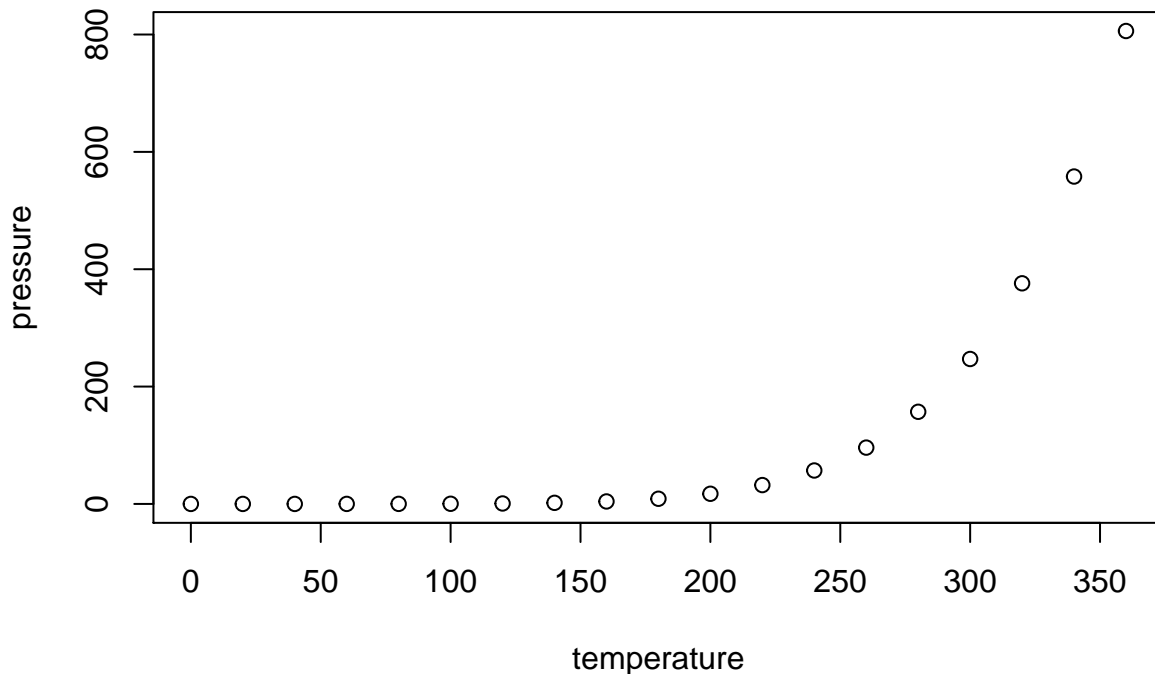
## Camaro Z28	13.3	8	350.0	245	3.73	3.840	15.41	0	0	3	4
## Pontiac Firebird	19.2	8	400.0	175	3.08	3.845	17.05	0	0	3	2
## Fiat X1-9	27.3	4	79.0	66	4.08	1.935	18.90	1	1	4	1
## Porsche 914-2	26.0	4	120.3	91	4.43	2.140	16.70	0	1	5	2
## Lotus Europa	30.4	4	95.1	113	3.77	1.513	16.90	1	1	5	2
## Ford Pantera L	15.8	8	351.0	264	4.22	3.170	14.50	0	1	5	4
## Ferrari Dino	19.7	6	145.0	175	3.62	2.770	15.50	0	1	5	6
## Maserati Bora	15.0	8	301.0	335	3.54	3.570	14.60	0	1	5	8
## Volvo 142E	21.4	4	121.0	109	4.11	2.780	18.60	1	1	4	2

Listes

- Une puce
- Une autre puce
 - Une sous-puce
 - Une autre sous-puce
- Et encore une autre puce !

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

Python code

```
## ['hello,', 'python', 'world!']
```

C code non exécutable

```
#include <stdio.h>
int main()
{
    // printf() displays the string inside quotation
    printf("Hello, World!");
    return 0;
}
```

Rcpp exécutable

```
#include <Rcpp.h>
// [[Rcpp::export]]
int fibonacci(const int x) {
    if (x == 0 || x == 1) return(x);
    return (fibonacci(x - 1)) + fibonacci(x - 2);
}
```

```
fibonacci(10L)
```

```
## [1] 55
```

Code exécutable

- 1. R
- 2. Bash
- 3. Python
- 4. Sql
- 5. Rcpp
 - 5.1. C
 - 5.2. C++
- 6. Stan

Parameter in header

```
params$number_val
```

```
## [1] 42
```



Figure 1: Ecotron

Du code HTML

Rendez-vous sur [R markdown Cheat Sheet](#) pour avoir de l'aide

Des images

Barre de séparation

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam dignissim facilisis tellus, egestas vulputate nulla pharetra at. In ultrices nisl et sapien malesuada, ut pulvinar massa placerat.

Etiam id ultricies odio, eu dignissim nisl.

Integer arcu velit, faucibus sed ex non, dictum egestas justo. Sed lacus libero, aliquam eu placerat at, placerat ac enim. Curabitur ultrices varius varius. Aenean dictum vitae metus eget tincidunt. Aenean non ipsum tincidunt velit malesuada elementum viverra at elit. N

ulla eu mauris ut quam ultrices fringilla. Quisque consequat, turpis a posuere pharetra, lacus diam dapibus ligula, vitae tristique nulla tortor a mauris. Nullam ac vestibulum arcu, vitae dapibus odio. Phasellus placerat dictum justo id semper.