## My elaborated analysis

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${f L}$	ist of Tables			
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$\mathbf{L}$	sist of Figures			
	1 A figure caption	2 4		
1 analysis.rmd				
1.	.1 First function			
Fo	or doubling the number, you might use the function 'double_me'.			
a	<pre>ibrary(coursepackageberlin) &lt;- 2 puble_me(a)</pre>			
##	<b>‡</b> [1] 4			
Se	ee this visual (1):			
2	Challenge			
	1. simple table and plot			
	2. add captions and crossref to those			
	3. add bib file and cite			
	4. Add second simple function to $R/$			
	5. • test			
	6. pass tests			

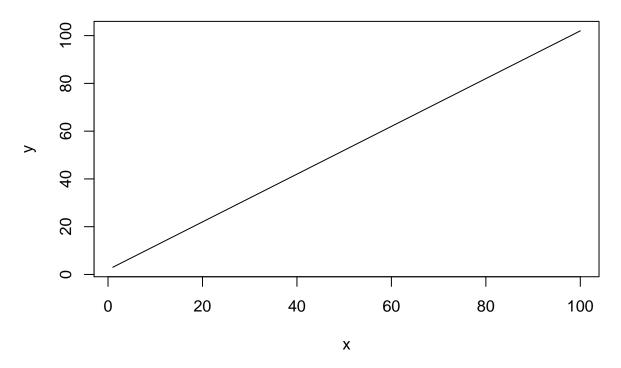


Figure 1: A figure caption.

## 3 Solution

```
We simulate a number of characters:
my_letters <- sample(letters, size = 500, replace = T)</pre>
now we table that
table(my_letters)
## my_letters
    \hbox{\tt abcdefghijklmnopqrs}
## 19 18 21 21 20 17 22 20 21 17 16 19 15 19 26 14 16 21 18 17 20 25 25 15 17
##
## 21
and in more beautiful
knitr::kable(as.data.frame(table(my_letters)), caption = "Letter frequency table")
and plot frequency
library(ggplot2)
my_plot_letters <- as.data.frame(table(my_letters))</pre>
ggplot(data=my_plot_letters, aes(x=my_letters, y=Freq)) + geom_bar(stat = "identity")
see solution table (1) and figure (2). for more information consult (R Core Team 2016).
Sampling letters can also be archieved by a function:
my_new_letters <- sample_letters(50)
```

We can use that to make a lorem ipsum

Table 1: Letter frequency table

$my\_letters$	Freq
a	19
b	18
c	21
d	21
e	20
f	17
g	22
h i	20
i	21
j	17
k	16
1	19
m	15
n	19
О	26
p	14
q	16
r	21
S	18
t	17
u	20
v	25
W	25
X	15
У	17
Z	21

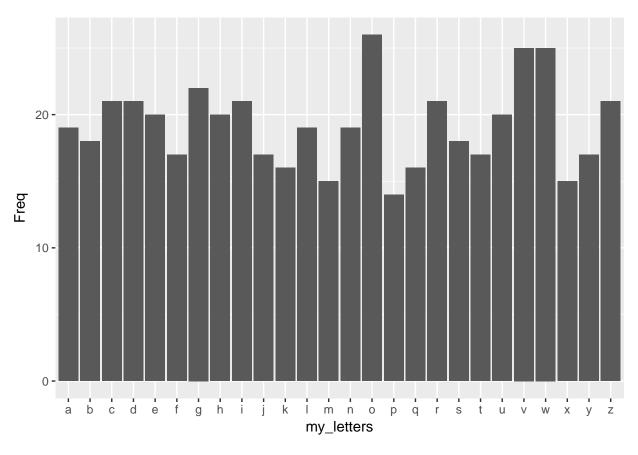


Figure 2: Letter frequency

```
x <- make_lorem_ipsum(100)
x</pre>
```

## [1] "u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp a and reuse it

```
cat(paste(rep(x,10), collapse = "\n"))
```

```
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
## u ucktifxzkk gvfw unovpuqdn tumzsen xufrll cgxj oct wvhajuram mapbnmkjvm drwwuu vzfh njrcxglp abaucx
```

R Core Team. 2016. R: A Language and Environment for Statistical Computing. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.