

My elaborated analysis

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1 Analyses

1.1 First function

For doubling the number, you might use the function ‘double_me’.

```
library(coursepackageberlin)
a <- 2
double_me(a)
```

```
## [1] 4
```

See 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

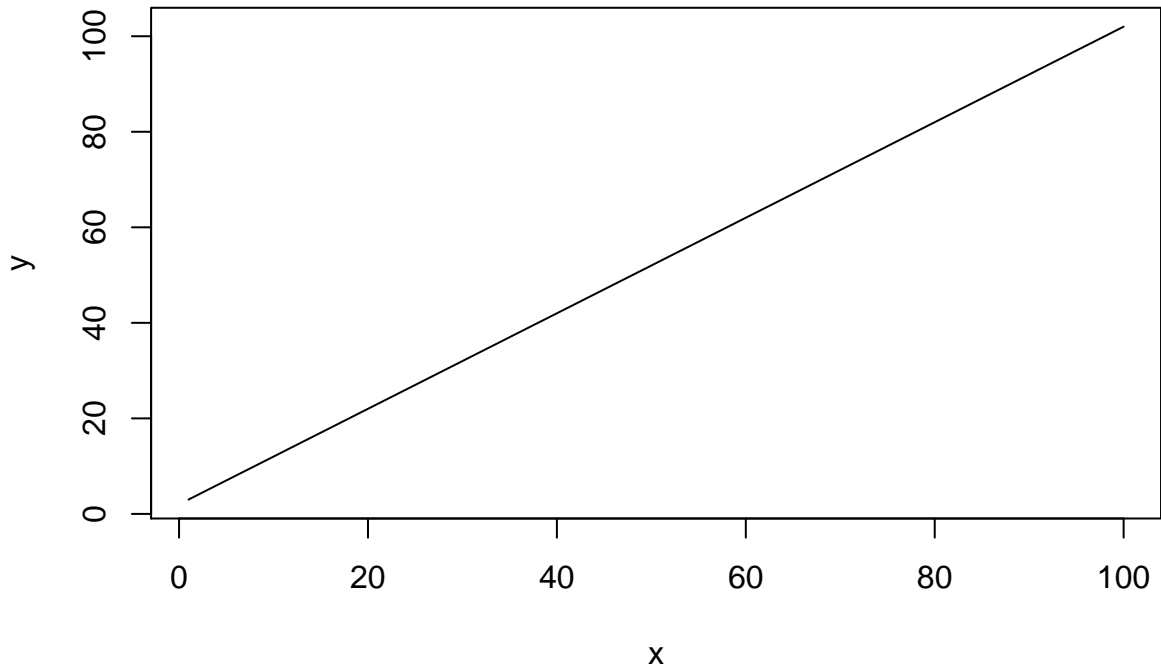


Figure 1: A figure caption.

3 Solution

We simulate a number of characters:

```
my_letters <- sample(letters, size = 500, replace = T)
```

now we table that

```
table(my_letters)
```

```
## my_letters
## a b c d e f g h i j k l m n o p q r s t u v w x y
## 20 18 19 12 19 25 13 17 20 18 22 17 15 14 28 26 24 17 21 19 17 15 25 20 21
## z
## 18
```

and in more beautiful

```
knitr::kable(as.data.frame(table(my_letters)), caption = "Letter frequency table")
```

and plot frequency

```
my_plot_letters <- table(my_letters)
barplot(my_plot_letters)
```

see solution table (1) and figure (2). for more information consult (R Core Team 2016).

Sampling letters can also be achieved 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	20
b	18
c	19
d	12
e	19
f	25
g	13
h	17
i	20
j	18
k	22
l	17
m	15
n	14
o	28
p	26
q	24
r	17
s	21
t	19
u	17
v	15
w	25
x	20
y	21
z	18

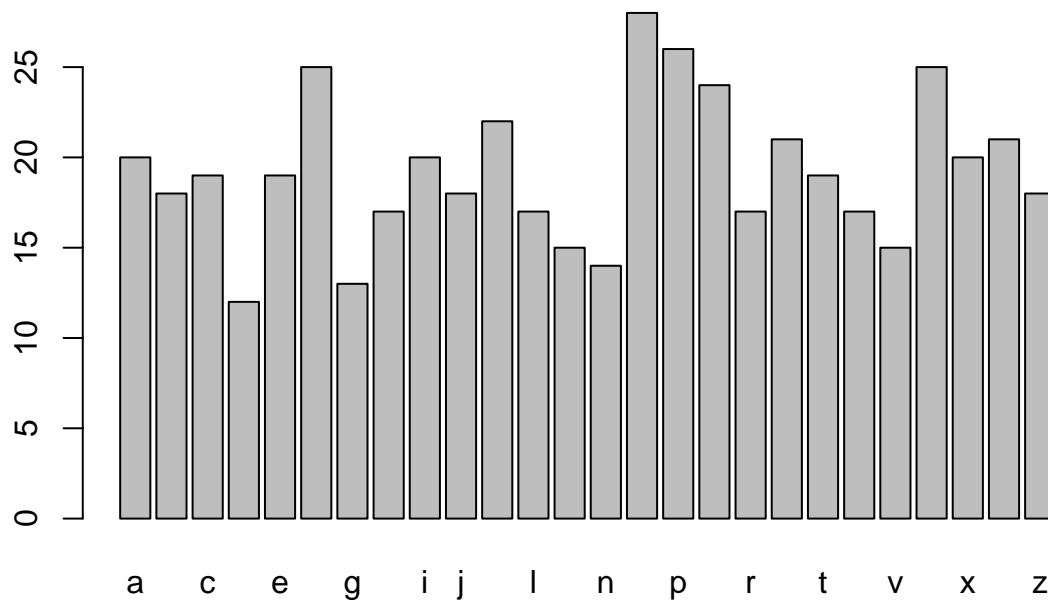


Figure 2: Letter frequency

```
x <- make_lorem_ipsum(100)
x
```

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

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

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

use binford

```
library(binford)
```

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