

# DaigleWk3D2Lab.R

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*Wed Jan 31 20:41:55 2018*

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## Christopher Daigle
## Wk3D2 Exercise
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```
# Exercise 1
```

```
my.str <- "Reverend Meza, Reverend Reck, I'm grateful for your generous invitation to speak my views.
```

```
While the so-called religious issue is necessarily and properly the chief topic here tonight, I want to
```

```
These are the real issues which should decide this campaign. And they are not religious issues--for war
```

```
nchar(my.str)
```

```
## [1] 890
```

```
my.list <- strsplit(my.str, split="")
```

```
is.list(my.list)
```

```
## [1] TRUE
```

```
my.chars <- unlist(my.list)
```

```
my.chars_lower <- tolower(my.chars)
```

```
my.chars <- my.chars_lower[which(my.chars_lower %in% letters)]
```

```
my.chartab <- table(my.chars)
```

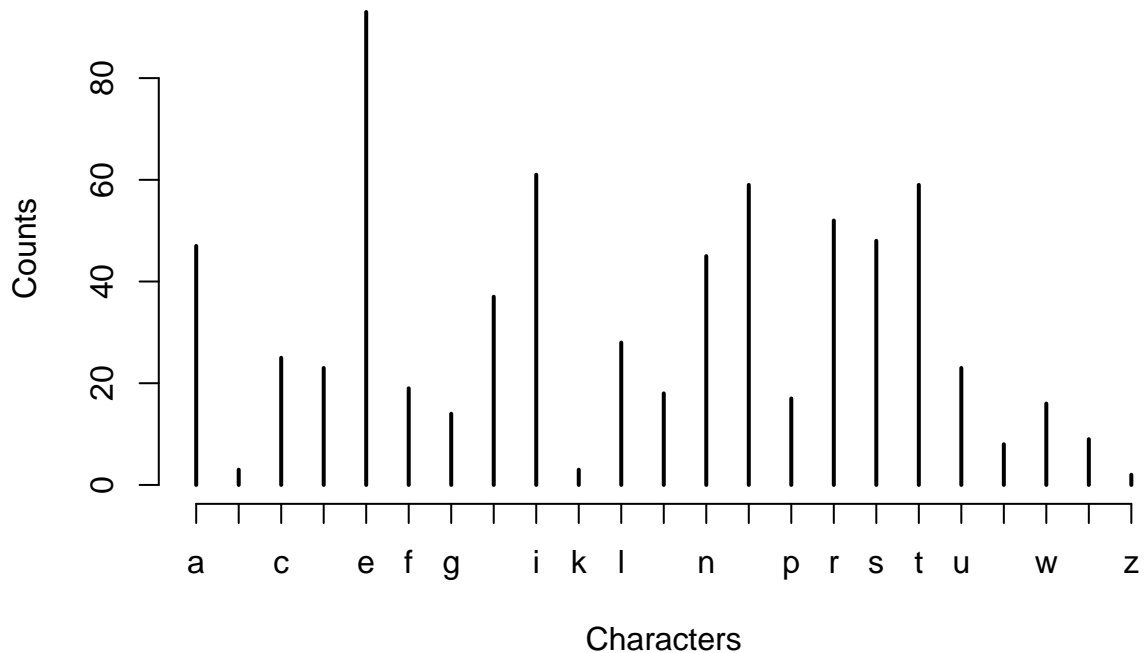
```
my.chartab
```

```
## my.chars
```

```
## a b c d e f g h i k l m n o p r s t u v w y z
```

```
## 47 3 25 23 93 19 14 37 61 3 28 18 45 59 17 52 48 59 23 8 16 9 2
```

```
plot(my.chartab, xlab = "Characters", ylab = "Counts")
```



```
## Exercise 2
presidents <- c("Bill Clinton", "George Bush", "Ronald Reagan", "Jimmy Carter", "Gerald Ford")

president.list <- strsplit(presidents, split = " ")
president.list

## [[1]]
## [1] "Bill"      "Clinton"
##
## [[2]]
## [1] "George" "Bush"
##
## [[3]]
## [1] "Ronald" "Reagan"
##
## [[4]]
## [1] "Jimmy"   "Carter"
##
## [[5]]
## [1] "Gerald" "Ford"

president.vec <- unlist(president.list)
president.vec

## [1] "Bill"      "Clinton" "George"   "Bush"     "Ronald"   "Reagan"   "Jimmy"
## [8] "Carter"   "Gerald"   "Ford"

president.1st <- president.vec[c(TRUE, FALSE)]
president.1st

## [1] "Bill"      "George" "Ronald" "Jimmy"   "Gerald"

## Exercise 3
bill <- "Bill Clinton"
others.first <- c("George", "Ronald", "Jimmy", "Gerald")
```

```

others.second <- c("Bush", "Reagan", "Carter", "Ford")

others <- paste(others.first, others.second)
others

## [1] "George Bush"    "Ronald Reagan" "Jimmy Carter"  "Gerald Ford"
substr(others, 1, 1)

## [1] "G" "R" "J" "G"
substr(others, nchar(others)-5, nchar(others))

## [1] "e Bush" "Reagan" "Carter" "d Ford"
president <- c(bill, others)
president

## [1] "Bill CLinton"  "George Bush"   "Ronald Reagan" "Jimmy Carter"
## [5] "Gerald Ford"
substr(president, 1, 3) <- "abc"
president

## [1] "abcl CLinton"  "abcrge Bush"   "abcald Reagan" "abcmy Carter"
## [5] "abcald Ford"

```