

# Homework 0

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## 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>.

## A sample question

Fill in your name between the quotes ":

```
name <- "Rui Gao"
name
```

```
## [1] "Rui Gao"
```

Here's another code chunk, you don't need to edit it, just run it:

```
chars <- strsplit(name, split = "")[[1]]
chars <- chars[chars != " "]
prop_vowels <- mean(grepl("[aeiouAEIOU]", chars))
prop_vowels
```

```
## [1] 0.6666667
```

The name, Rui Gao, is 67% vowels.

## Some details on your R install

```
# sessionInfo() gives information about your R version,
# so I can check you have everything you need
sessionInfo()
```

```
## R version 4.1.1 (2021-08-10)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 19042)
##
## Matrix products: default
##
```

```

## locale:
## [1] LC_COLLATE=English_United States.1252
## [2] LC_CTYPE=English_United States.1252
## [3] LC_MONETARY=English_United States.1252
## [4] LC_NUMERIC=C
## [5] LC_TIME=English_United States.1252
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## loaded via a namespace (and not attached):
## [1] compiler_4.1.1  magrittr_2.0.1  fastmap_1.1.0   tools_4.1.1
## [5] htmltools_0.5.2 yaml_2.2.1      stringi_1.7.4   rmarkdown_2.11
## [9] knitr_1.34      stringr_1.4.0   xfun_0.26       digest_0.6.28
## [13] rlang_0.4.11    evaluate_0.14

```