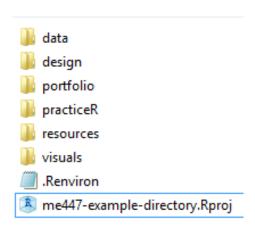
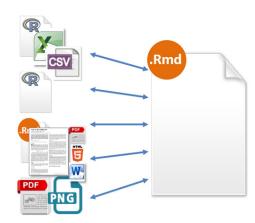
### **Basic file management**

Organize to manage files at the start of a project

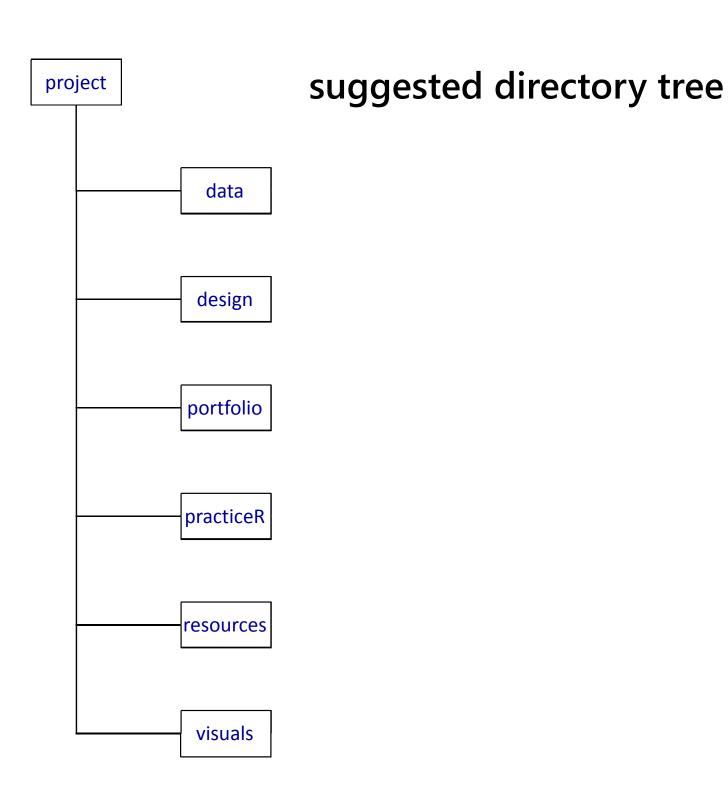


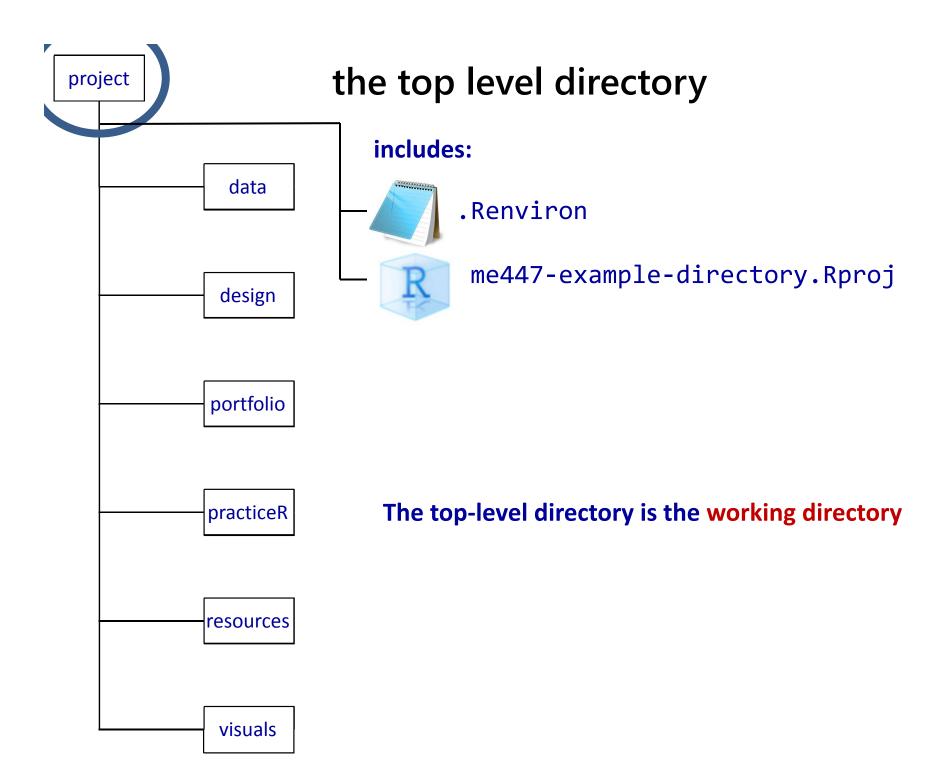
**Link scripts explicitly** 

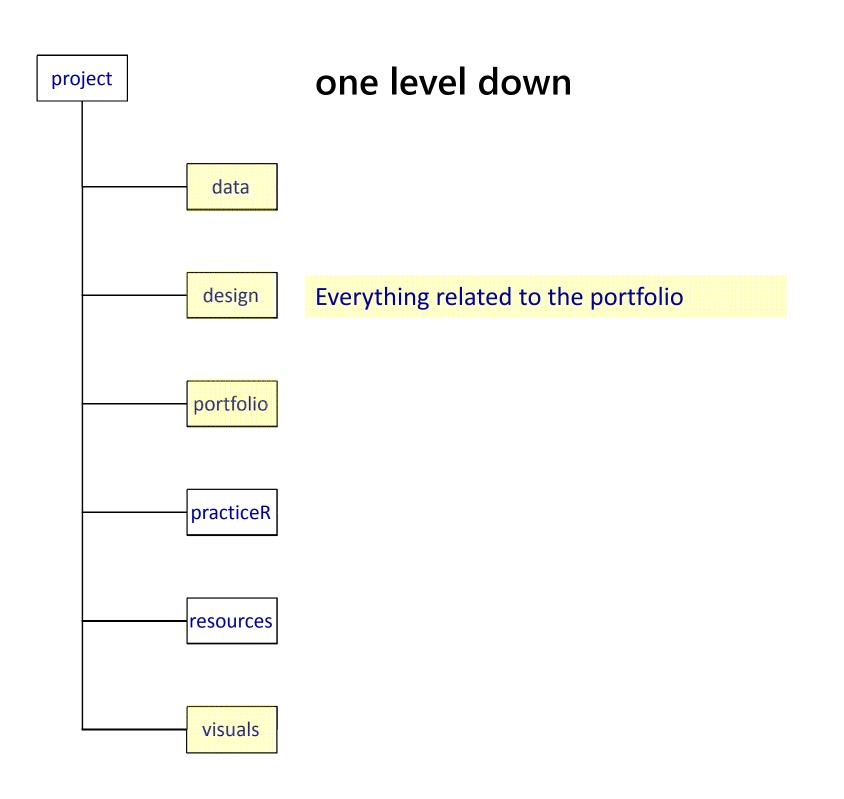


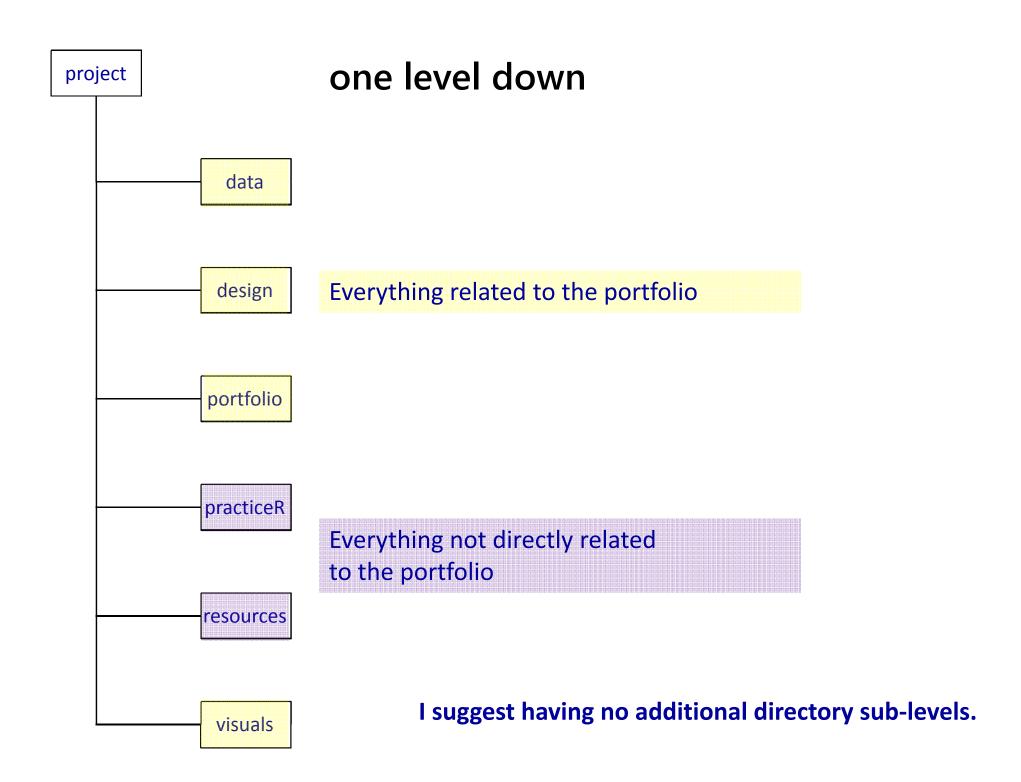
**Use relative paths** 

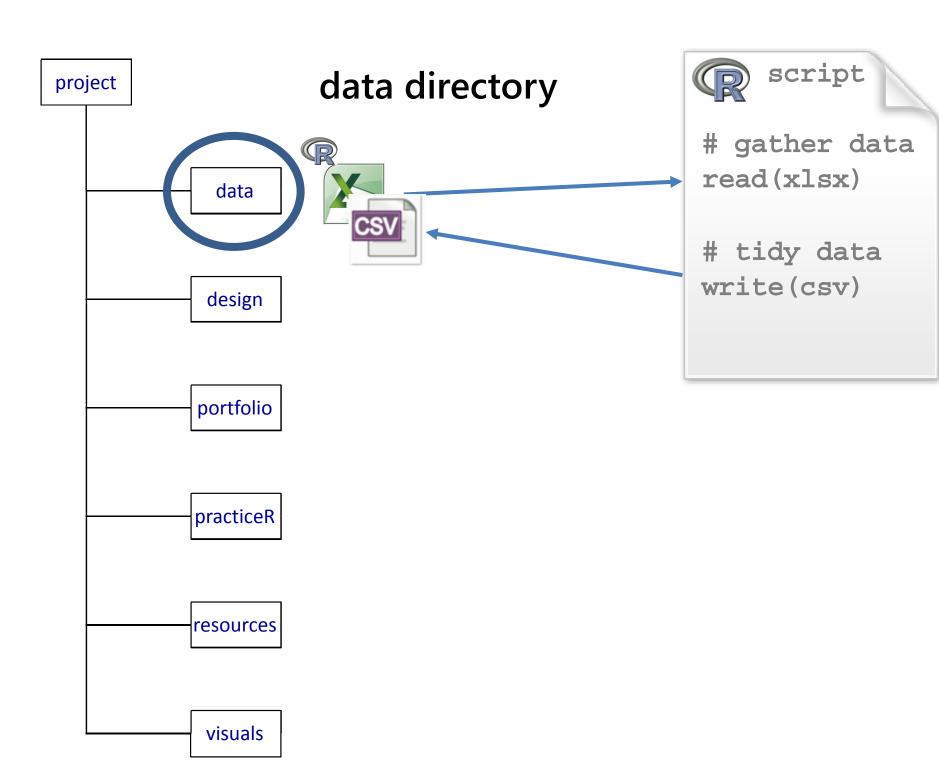
read\_excel('data/lotr-words-spoken.xlsx')

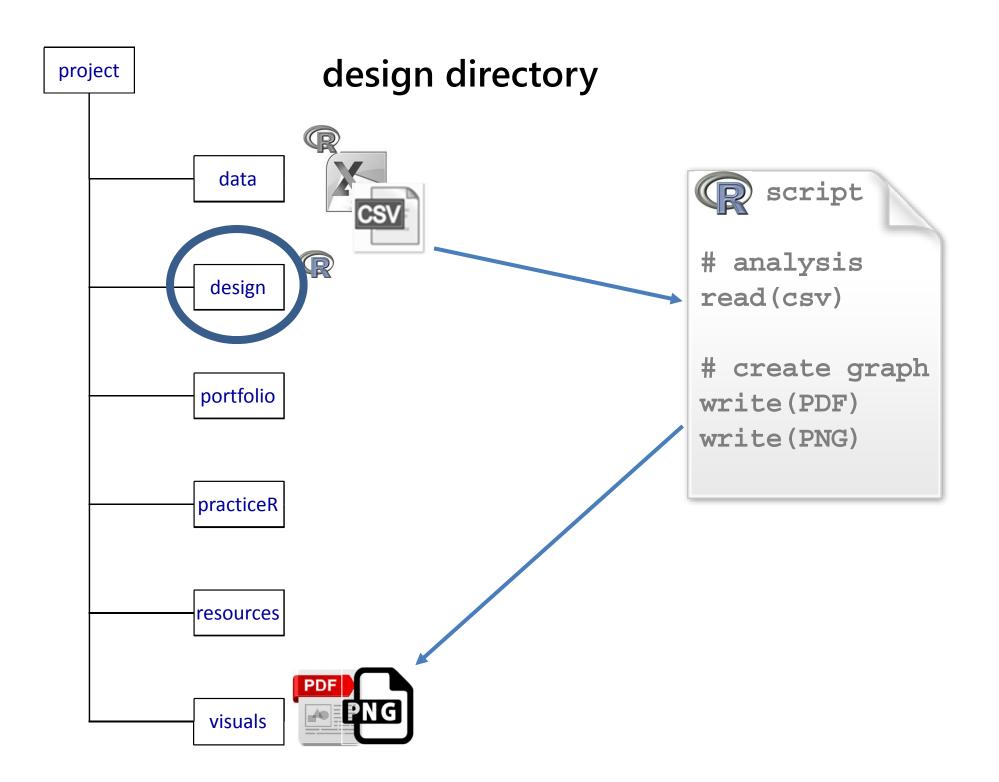


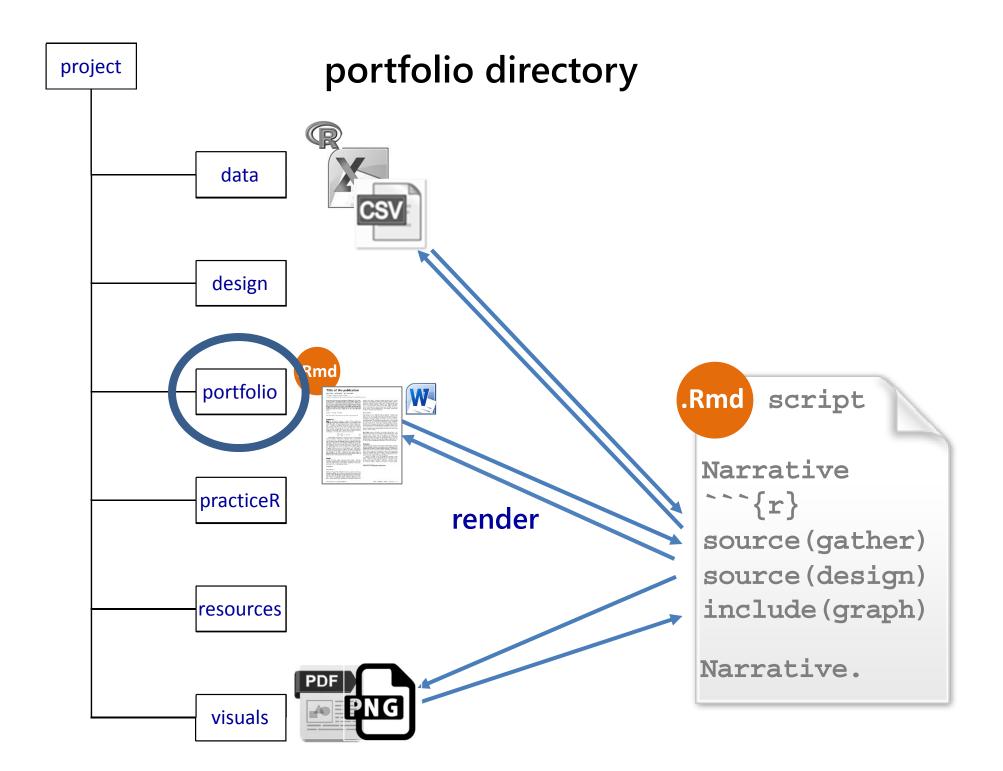


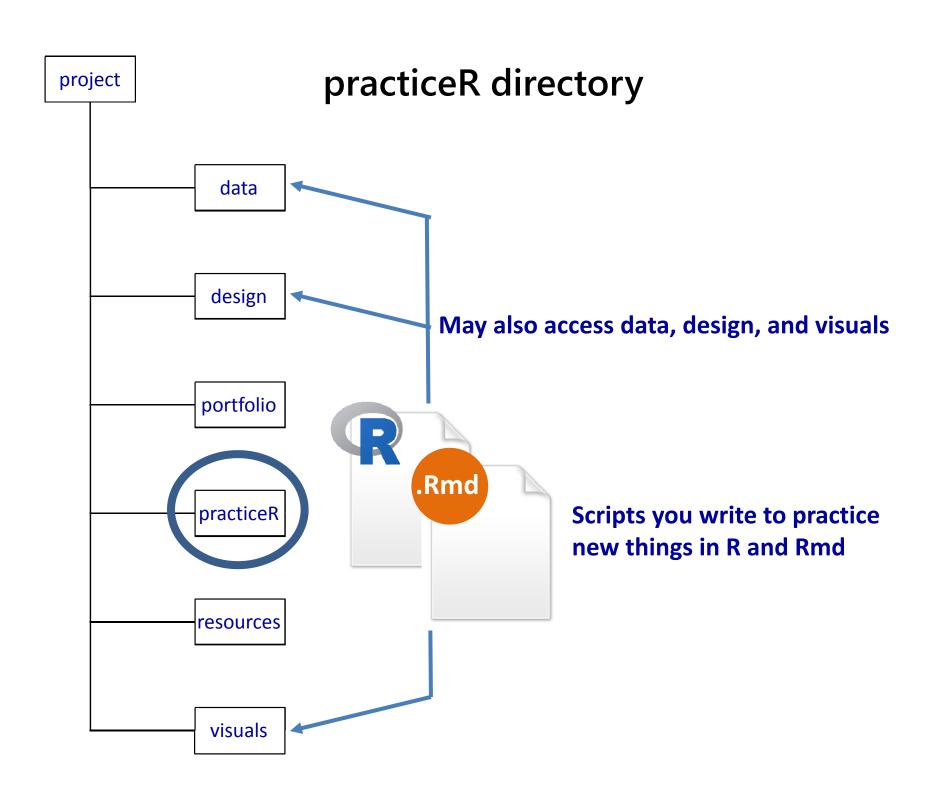


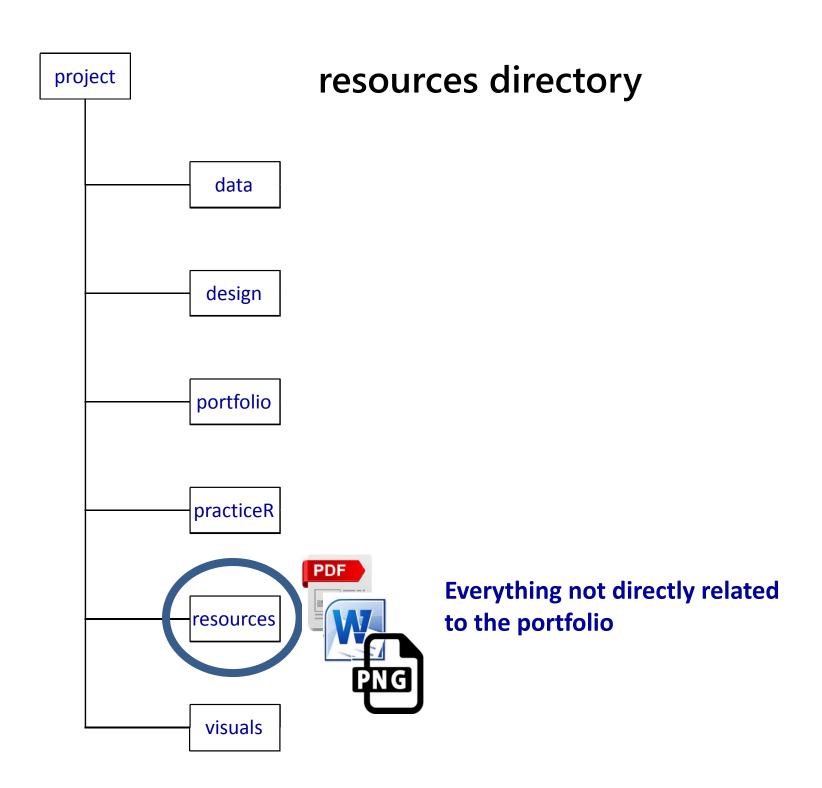


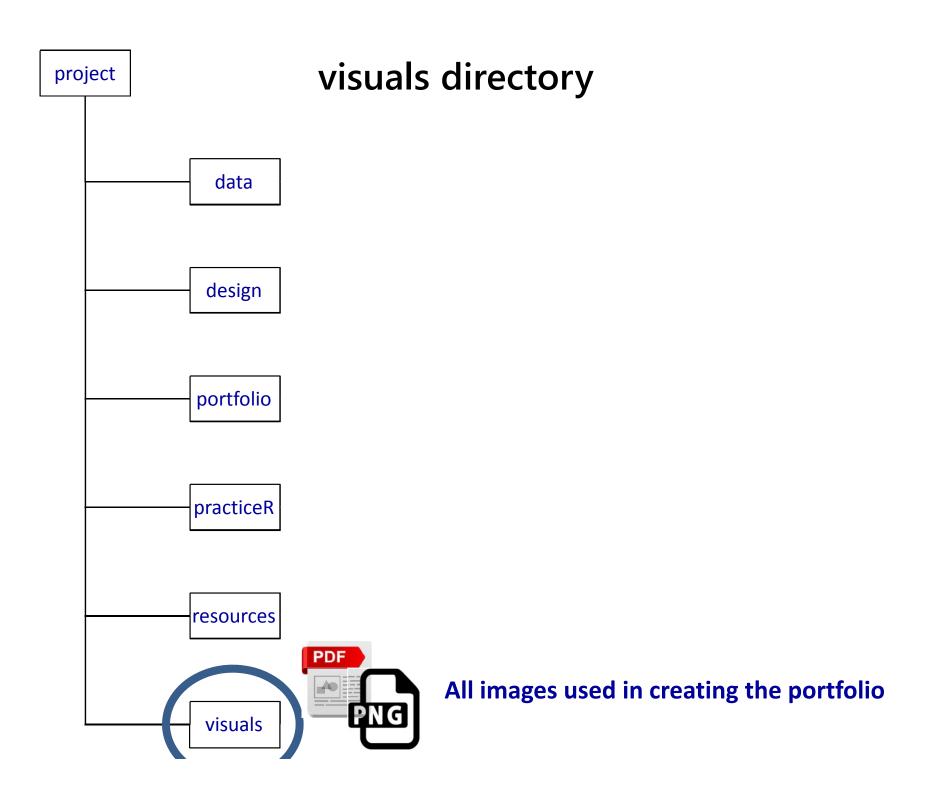




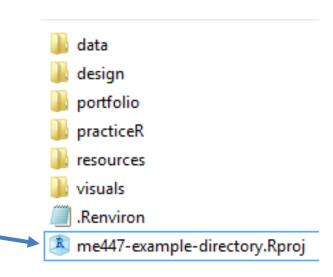








## Always use paths relative to the .Rproj working directory





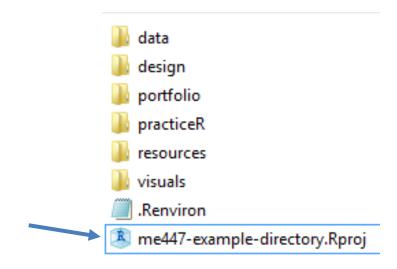
Launching .Rproj sets its top-level directory as the working directory



To see for yourself, launch your project and type getwd() in the Console.

Never set the working directory manually Never use absolute file paths

# R's working directory is the .Rproj top-level directory

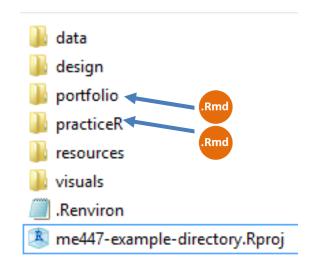




Paths in .R scripts are always "relative to" the top-level directory of the Rstudio Project.

```
# data
df <- read_excel('data/lotr-words-spoken.xlsx')</pre>
```

### But knitr's default working directory is the Rmd file location.

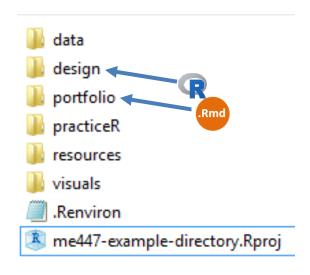




Because our .Rmd scripts are one level down from .Rproj, we reset the knitr root directory one level up

```
'``{r setup, include=FALSE}
# set the knitr working directory
library(knitr)
opts_knit$set(root.dir = "../")
```

# Now both .R and knitr in .Rmd have the same working directory

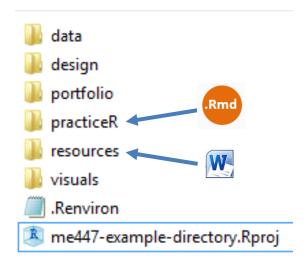




Paths in .R and .Rmd code chunks are now both relative to the .Rproj top-level directory

```
"``{r 1118, results='hide'}
# start the image PNG device
png(filename = 'visuals/tut11_multiway.png'
, width = 6.5
, height = 5.5
, units = 'in'
, res = 300
)
```

### Exception 1: the YAML working directory is the Rmd file location.

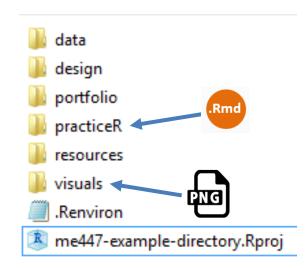


#### **Suppose**

- the Rmd script is in "practiceR"
- the word styles reference file is in "resources"

```
output:
   word_document:
    reference_docx: '../resources/word-styles-reference-01.docx'
---
```

# Exception 2: the image import working directory is the Rmd file location.



#### **Suppose**

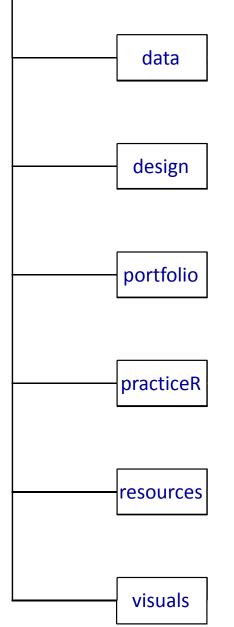
- the Rmd script is in "practiceR"
- the graph PNG file is in "visuals"

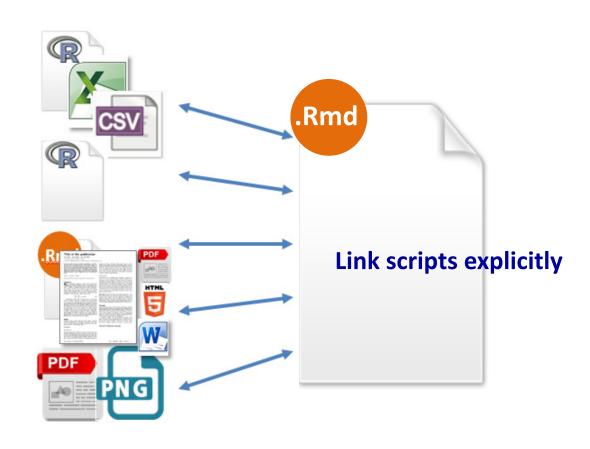
```
## Practice importing an image
![](../visuals/tutl1_multiway.png)
```

project

### Organize to manage files at the start of a project

### **Summary**





**Use relative paths** 

read\_excel('data/lotr-words-spoken.xlsx')