

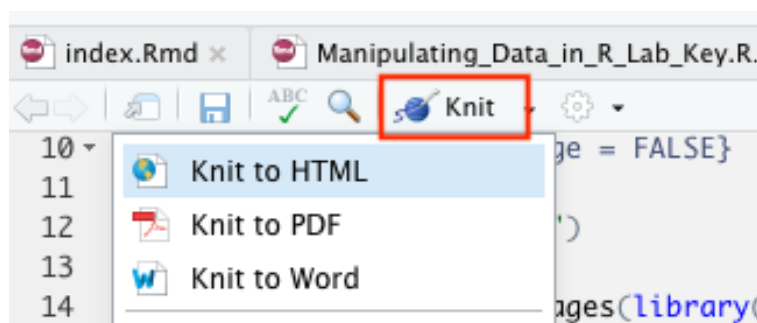
# Reproducibility

## Reproducibility

- clean your environment regularly
- use RMarkdown
- check the knit of your RMarkdown regularly
- tell your future self and others what you did!

## RMarkdown

Clicking the knit button, will knit your document to create different types of reports. The default is html.



## Code Chunks

```
```{r, echo = FALSE}
x<-2
```

```{r, eval = FALSE}
x<-2
```

```{r, message = FALSE}
x<-2
```
```

After knitting:

- 1) **echo** - determines if your code should be shown or not
  - TRUE = code is **shown** (default)
  - FALSE = code is not shown (but might be run... depends on eval)
- 2) **eval** - determines if your code should be evaluated (run) or not
  - TRUE = code is **run** (default)
  - FALSE = code is not run (but might be shown... depends on echo)
- 3) **message** = FALSE - suppresses messages when you run your code

## RMarkdown syntax

Before:

```
# Header - biggest font created by hashtag and space
## SubHeader Second Biggest created by 2 hashtags and space

bold text
italicized text

`code` referenced outside of a chunk needs backticks
```

After knit:

**Header - biggest font created by hashtag and space**

**SubHeader Second Biggest created by 2 hashtags and space**

**bold** text *italicized* text

`code` referenced outside of a chunk needs backticks

## RMarkdown syntax

Go to File > Help > Cheatsheets > R Markdown Cheatsheet

## Final Project

Specific guidelines and example on website

Turn in through CoursePlus:

- 1) RMarkdown file
- 2) html file