Reproducibility in R

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# Introduction

This is an introduction to reproducibility in R.

## Starting with RStudio

Information about RStudio Opening R Studio

You can add **bold text** or **bold text** You can add *italic text* or *italic text with underscores*

Adding superscript is not so easy Adding subscript using tilde

If you add inline code use the backtick to write code

We have covered this in the [Introduction section](#Introduction). You can also create [links to Google](https://www.google.com) for example. But you might have some link to the footnote [[1]](#footnote-23).

## Lists

Ordered lists take numbers

1. Item A
2. Item B
3. Item C
   1. Sublist 1 #indented with 4 spaces
   2. Sublist 2

You also have unordered lists:

* Item A
* Item B

Tasks - if uploaded to github will create tickboxes (doesn’t show up in html) - [ ] - [x]

Linking an image

 Can also copy local image location

## Tables

You can create tables using | -

|  |  |
| --- | --- |
| Column header | Another column |
| First row | With info |
| More rows | With more info |

A greater than sign creates blocks

How does that look? How would we highlight code?

Single backticks are used inline to highlight

To write a block of code start with three backticks (this does not get executed):

print("hello")  
read.csv("data.txt")

Can also do this by Code > Insert Chunk or by Ctrl-Alt-I (this does get executed):

print("hello")

## [1] "hello"

75 \* 8

## [1] 600

#load tidyverse library  
library(tidyverse) # used for data manipulation  
library(rmarkdown) # used for paged\_table function  
library(kableExtra) # used for table  
  
download.file(url="https://raw.githubusercontent.com/cambiotraining/reproducibility-training/master/data/gapminder\_data.csv", destfile="gapminder\_data.csv")  
  
pop\_data <- read\_csv("gapminder\_data.csv")  
euro\_data\_tbl <- pop\_data %>%   
 filter(continent == "Europe" & year == 2007) %>%   
 select(-continent, -year) %>%   
 arrange(desc(lifeExp)) %>%   
 rename(Country = country, "Population Size" = pop, "Life Expectancy" = lifeExp, "GDP" = gdpPercap)

1. This is my first footnote. [↑](#footnote-ref-23)