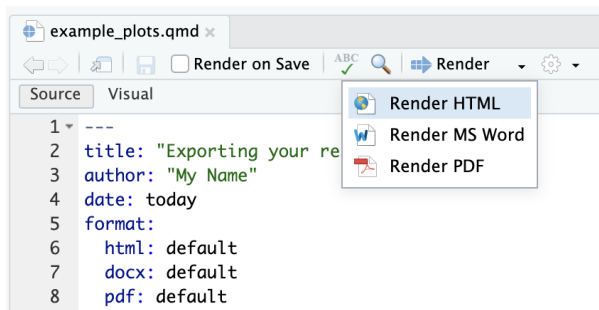


## 08 - Quarto Markdown: exporting your results

### Render to three different formats

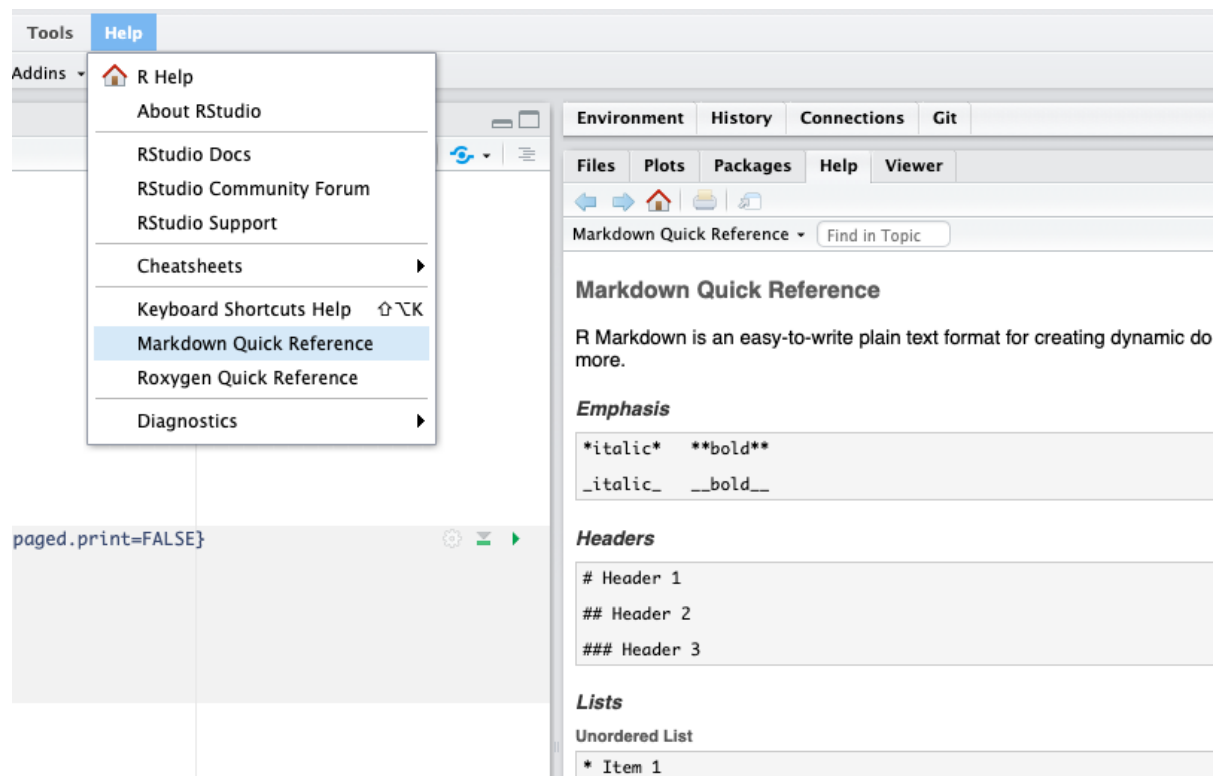
Open 08\_exporting.Qmd and Render it into HTML, PDF, and then Word.

**Control+Shift+K** to “render” the whole (Quarto) document. Or use the Render button above, and the options there:



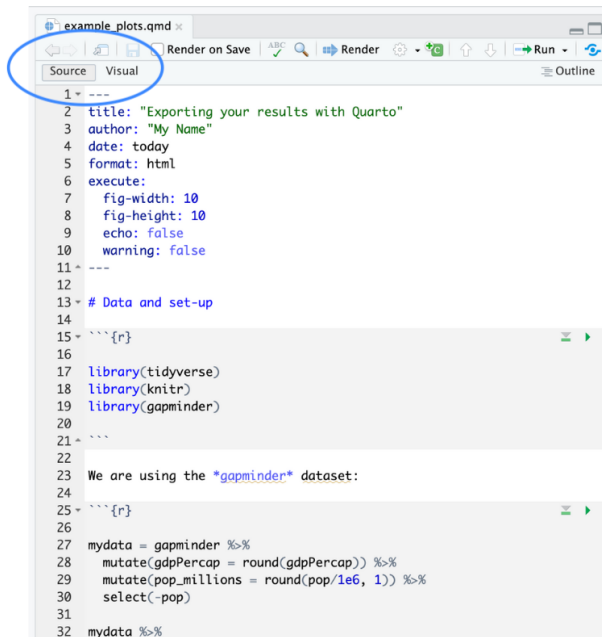
### Markdown syntax

Open Markdown Quick reference:

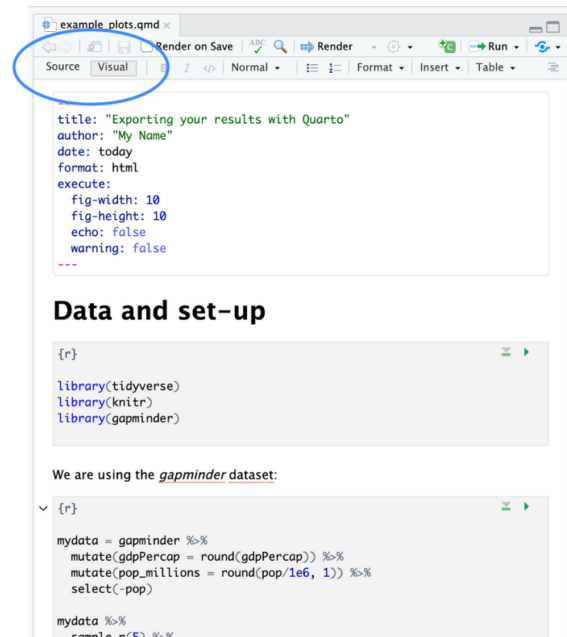


## Switch between editor modes

Use the “Source” and “Visual” buttons at the top to view the document with or without your markdown formatting previewed:



```
1 ---
2 title: "Exporting your results with Quarto"
3 author: "My Name"
4 date: today
5 format: html
6 execute:
7   fig-width: 10
8   fig-height: 10
9   echo: false
10  warning: false
11 ---
12
13 # Data and set-up
14
15 ```{r}
16
17 library(tidyverse)
18 library(knitr)
19 library(gapminder)
20
21 ```
22
23 We are using the gapminder dataset:
24
25 ```{r}
26
27 mydata = gapminder %>%
28   mutate(gdpPercap = round(gdpPercap)) %>%
29   mutate(pop_millions = round(pop/1e6, 1)) %>%
30   select(-pop)
31
32 mydata %>%
```



```
title: "Exporting your results with Quarto"
author: "My Name"
date: today
format: html
execute:
  fig-width: 10
  fig-height: 10
  echo: false
  warning: false
---
```

### Data and set-up

```
{r}

library(tidyverse)
library(knitr)
library(gapminder)
```

We are using the *gapminder* dataset:

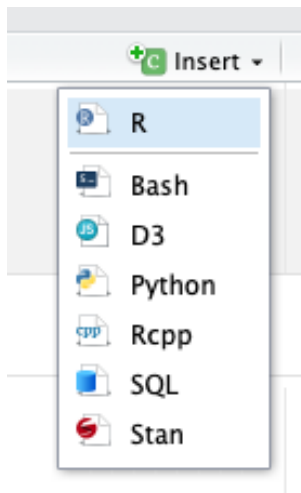
```
{r}

mydata = gapminder %>%
  mutate(gdpPercap = round(gdpPercap)) %>%
  mutate(pop_millions = round(pop/1e6, 1)) %>%
  select(-pop)

mydata %>%
  sample_n(5)
```

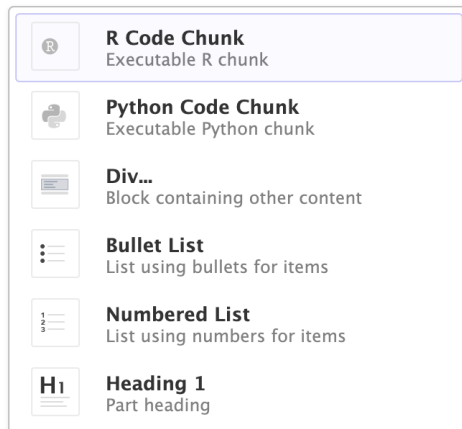
## New code chunk

Insert a new R code chunk in “Source” mode:



Insert a new R code chunk in “Visual” mode:

/ type to search...



## Outputting tables, issues with different output formats

Add `%>% kable()` to get consistently better formatting in different formats.

```
mydata %>%  
  slice(1:6) %>%  
  knitr::kable()
```

`kable()` comes from `library(knitr)` which we had loaded at the top anyway, but we've also included `knitr::kable()` as a reminder.

## Inline R code

We can also include R code inside Markdown sentences using a single ``` instead of three:

Number of variables: ``r mydata %>% ncol()``.

Total number of observations: ``r mydata %>% nrow()``.

## Changing the size of the figure in the output

Add your options as a special type of comment, starting `#|` in the chunk itself:

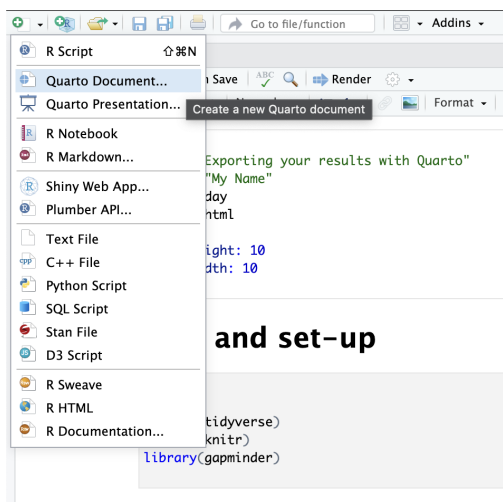
```
40 < ` ` `{  
41 #| fig-height: 10  
42 #| fig-width: 10  
43 #| echo: false  
44 #| warning: false  
45  
46 mydata %>%  
47   filter(year == 2007) %>%  
48   ggplot(aes(x = gdpPercap/1000, #divide by 1000 to tidy the x-axis  
49             y = lifeExp,  
50             colour = continent,  
51             size = pop_millions)) +  
52   geom_point(shape = 1) +  
53   theme_bw()  
54  
55 < ` ` `
```

Or as a default option for all chunks in the YAML header:

```
1 ---
2 title: "Exporting your results with Quarto"
3 author: "My Name"
4 date: today
5 format: html
6 execute:
7   fig-width: 10
8   fig-height: 10
9   echo: false
10  warning: false
11 ---
```

## Creating a new Quarto document

Click on the little sheet with a green plus at the top-left corner of RStudio to create a new Quarto document.



I then usually delete everything below the YAML header (so everything after the second ---) and start adding content by copying chunks I've done previously (e.g. worked examples from this course).