

# Setting up Quarto

Ronald (Ryy) Glenn Thomas

6/13/23

## Table of contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>- Code</b>	<b>2</b>
2.0.1	- Tabsets . . . . .	2
2.1	2 - Columns . . . . .	5
2.2	2 - Margin captions . . . . .	5

## 1 Introduction

Quarto is an expansion of the Rstudio app. From my perspective it provides a number of useful additional tools for literate programming and blogging.

Consider some ideas from Rob Hyndman

[GitHub - robjhyndman/quarto\\_website\\_template: Template of quarto website](#)

and

Eric Ekholm - Modifying the Default Quarto Blog Structure  
<https://www.ericekholm.com/posts/demo-quarto-site/>

cloned to `sbx`

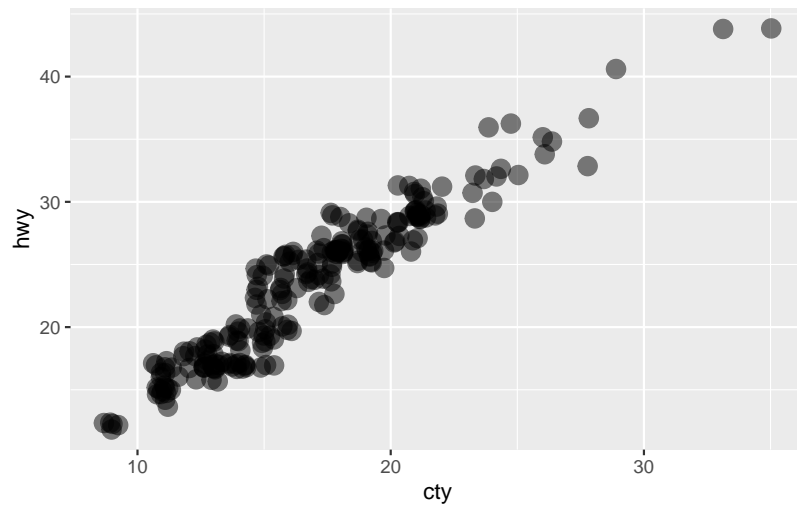
## 2 - Code

This is inline code plus a small code chunk.

```
library(tidyverse)
```

```
-- Attaching packages ----- tidyverse 1.3.2 --
v ggplot2 3.4.0      v purrr   1.0.0
v tibble  3.1.8      v dplyr   1.0.10
v tidyr   1.2.1      v stringr 1.5.0
v readr   2.1.3      v forcats 0.5.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
```

```
ggplot(mpg) +
  geom_jitter(aes(cty, hwy), size = 4, alpha = 0.5)
```



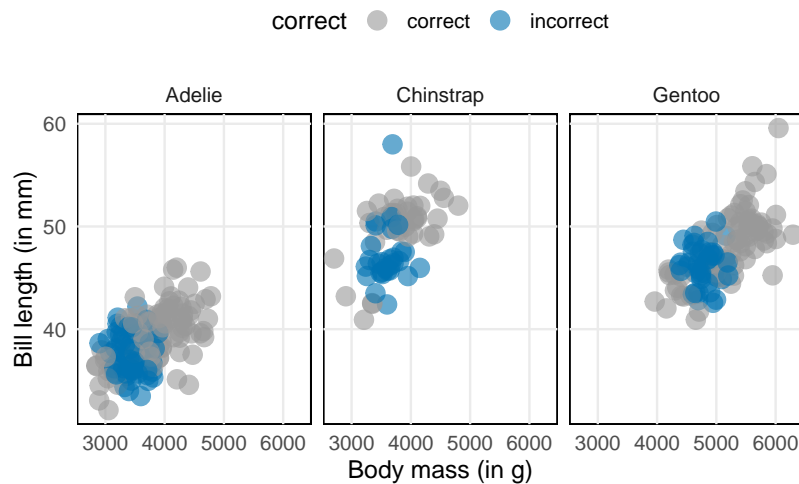
### 2.0.1 - Tabsets

#### 2.0.1.1 Transforming OLS estimates

```

preds_lm %>%
  ggplot(aes(body_mass_g, bill_length_mm, col = correct)) +
  geom_jitter(size = 4, alpha = 0.6) +
  facet_wrap(vars(species)) +
  scale_color_manual(values = c('grey60', thematic::okabe_ito(3)[3])) +
  scale_x_continuous(breaks = seq(3000, 6000, 1000)) +
  theme_minimal(base_size = 12) +
  theme(
    legend.position = 'top',
    panel.background = element_rect(color = 'black'),
    panel.grid.minor = element_blank()
  ) +
  labs(
    x = 'Body mass (in g)',
    y = 'Bill length (in mm)'
  )

```



### 2.0.1.2 Maximizing likelihood

```

glm.mod <- glm(sex ~ body_mass_g + bill_length_mm + species, family = binomial, data = dat)

preds <- dat %>%
  mutate(
    prob.fitted = glm.mod$fitted.values,

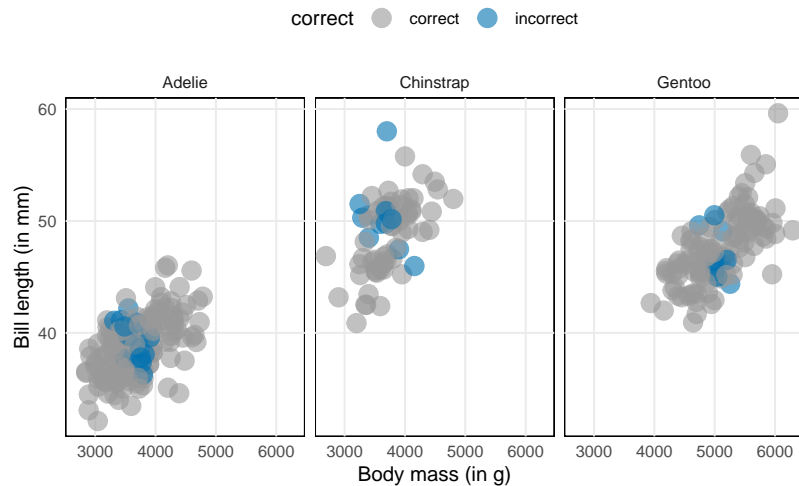
```

```

    prediction = if_else(prob.fitted > 0.5, 'male', 'female'),
    correct = if_else(sex == prediction, 'correct', 'incorrect')
  )

preds %>%
  ggplot(aes(body_mass_g, bill_length_mm, col = correct)) +
  geom_jitter(size = 4, alpha = 0.6) +
  facet_wrap(vars(species)) +
  scale_x_continuous(breaks = seq(3000, 6000, 1000)) +
  scale_color_manual(values = c('grey60', thematic::okabe_ito(3)[3])) +
  theme_minimal(base_size = 10) +
  theme(
    legend.position = 'top',
    panel.background = element_rect(color = 'black'),
    panel.grid.minor = element_blank()
  ) +
  labs(
    x = 'Body mass (in g)',
    y = 'Bill length (in mm)'
  )

```



### 2.0.1.3 - Some math stuff

$$\int_0^1 f(x) \, dx$$

## 2.1 2 - Columns

```
geom_density(  
  mapping = NULL,  
  data = NULL,  
  stat = "density",  
  position = "identity",  
  ...,  
  na.rm = FALSE,  
  orientation = NA,  
  show.legend = NA,  
  inherit.aes = TRUE,  
  outline.type = "upper"  
)  
  
stat_density(  
  mapping = NULL,  
  data = NULL,  
  geom = "area",  
  position = "stack",  
  ...,  
  bw = "nrd0",  
  adjust = 1,  
  kernel = "gaussian",  
  n = 512,  
  trim = FALSE,  
  na.rm = FALSE,  
  orientation = NA,  
  show.legend = NA,  
  inherit.aes = TRUE  
)
```

## 2.2 2 - Margin captions

```
ggplot(data = gapminder::gapminder, mapping = aes(x = lifeExp, fill = continent)) +  
  stat_density(position = "identity", alpha = 0.5)
```

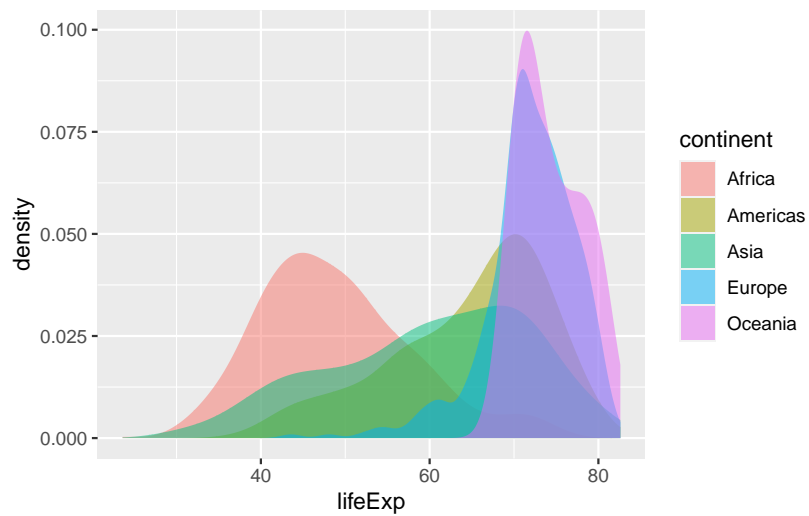


Figure 1: Bla bla bla. This is a caption in the margin. Super cool isn't it?

Start with running quarto create-project at ~/prj level

```
quarto create-project qblog --type website:blog
```

Creating project at /Users/zenn/Dropbox/prj/qblog:

- Created \_quarto.yml
- Created index.qmd
- Created posts/welcome/index.qmd
- Created posts/post-with-code/index.qmd
- Created about.qmd
- Created styles.css
- Created posts/\_metadata.yml

- cd to ~/qblog/posts/
- create a new directory, say setupquarto
- cd to ~/qblog/posts/setupquarto
- vim index.qmd