

# Setting up Quarto

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## 1 Introduction

Quarto is an extension of the Rmarkdown ecosystem. It leverages the power of **Pandoc**. From my perspective it provides a number of useful additional tools for literate programming and blogging.

I'm using quarto for my lab's home page with an embedded blog. [rgtlab blog](#).

Refererences:

Useful archive:

mcanouil/awesome-quarto: [A curated list of Quarto talks, tools, examples & articles! Contributions welcome!](#)

Consider some ideas from

- Rob Hyndman - [Template of quarto website](#)
- Eric Ekholm - [Modifying the Default Quarto Blog Structure](#)

- Allison Hill - [We don't talk about Quarto](#)
- Nick Tierney - [Notes on Changing from Rmarkdown/Bookdown to Quarto](#)

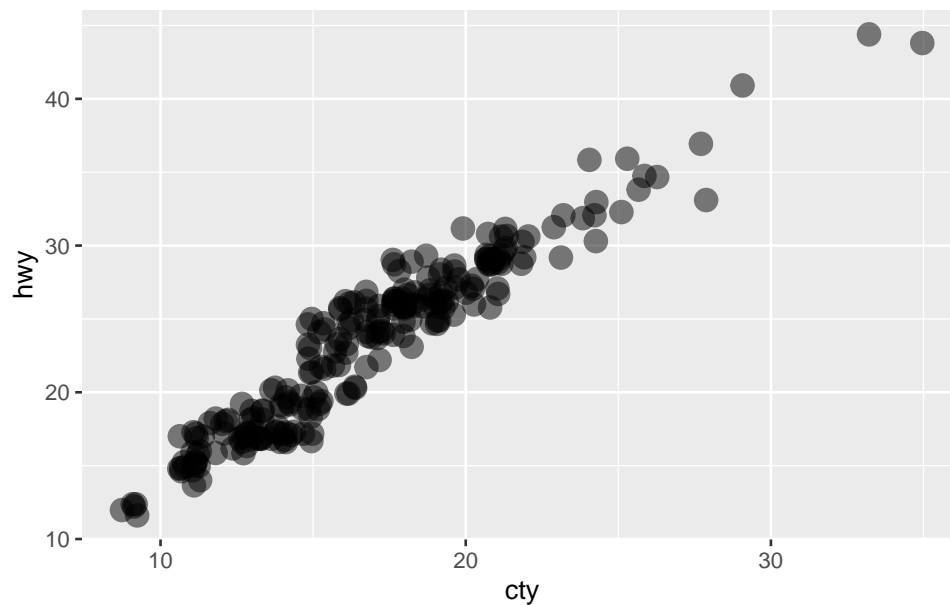
This post will include some of the most useful and interesting quarto tools presented in the context of a **Palmer Penguins** data set analysis.

## 2 - Code

This is `inline` code plus a small code chunk.

```
library(tidyverse)

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



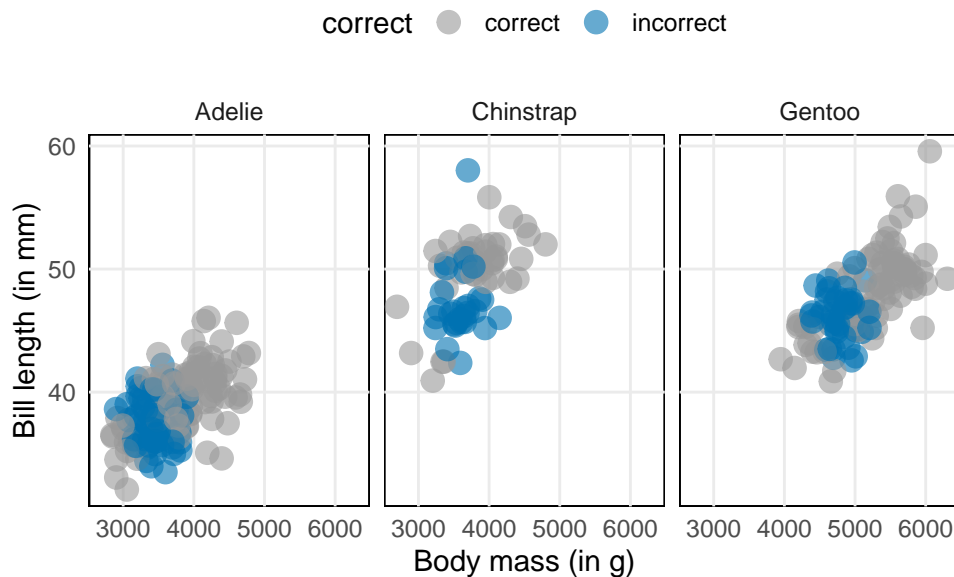
### 2.0.1 - Tabsets

#### 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 %>%

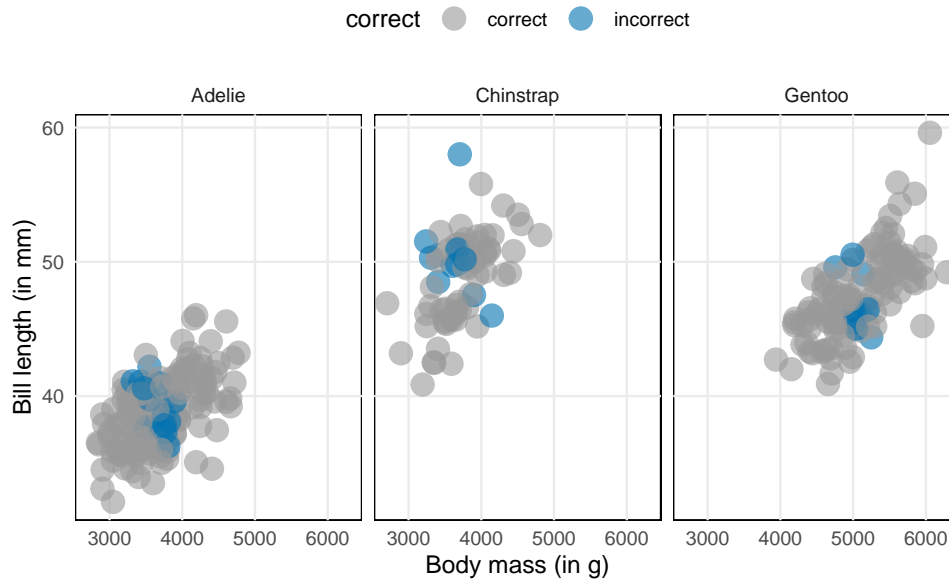
```

```

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)
```

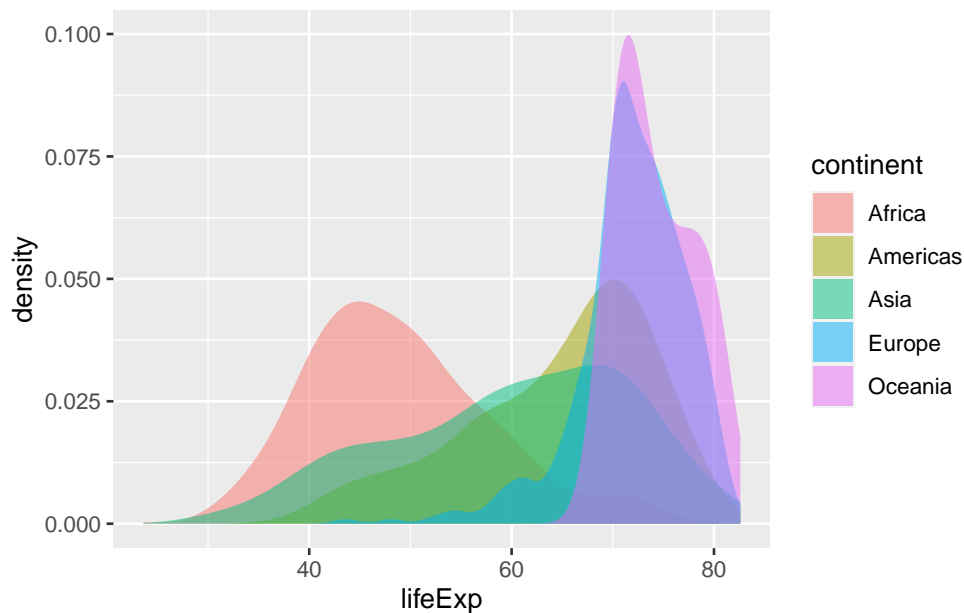


Figure 1: Bla bla bla. This is a caption in the margin. Super cool isn't it?

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

To create a minimal shell of a blog type:

```
```sh
```

```
> quarto create-project minimal_blog --type website:blog
```

This creates the following file structure:

```
> tree --charset unicode
.
|-- _quarto.yml
|-- about.qmd
|-- index.qmd
|-- posts
|   |-- _metadata.yml
|   |-- post-with-code
|   |   |-- image.jpg
|   |   |-- index.qmd
|   |-- welcome
|       |-- index.qmd
|       |-- thumbnail.jpg
|-- profile.jpg
`-- styles.css
```

My current blog looks like: