

Setting up Quarto

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1 Introduction

Quarto is an extension of the Rmarkdown ecosystem. 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](#).

Consider some ideas from Rob Hyndman

[GitHub - robjhyndman/quarto_website_template: Template of quarto website](#)

and

Eric Ekholm - [Modifying the Default Quarto Blog Structure](#)
cloned to `sbx`

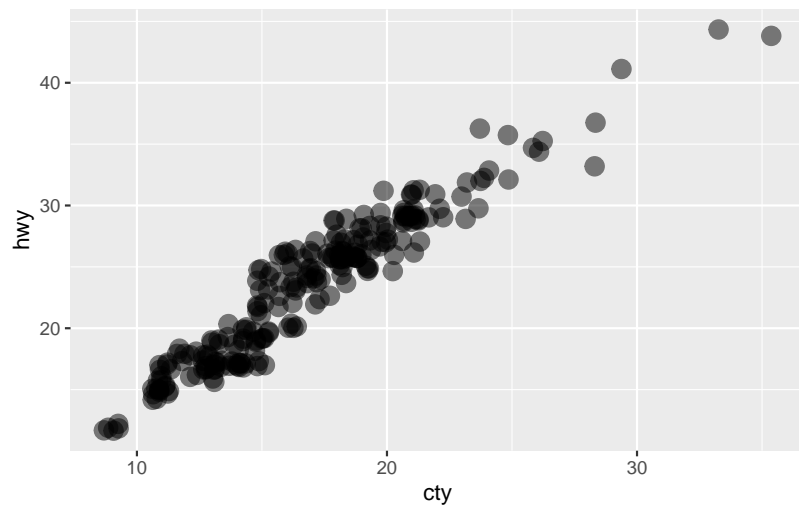
This post will include some of the most useful and interesting quarto tools presented in the context of a Palmer Penguins data set analysis.

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

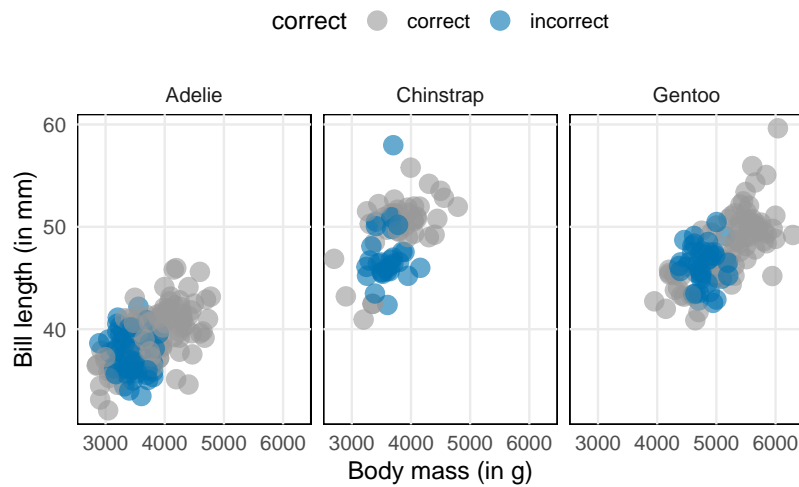
2.0.1.1 Transforming OLS estimates

```
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')
  )

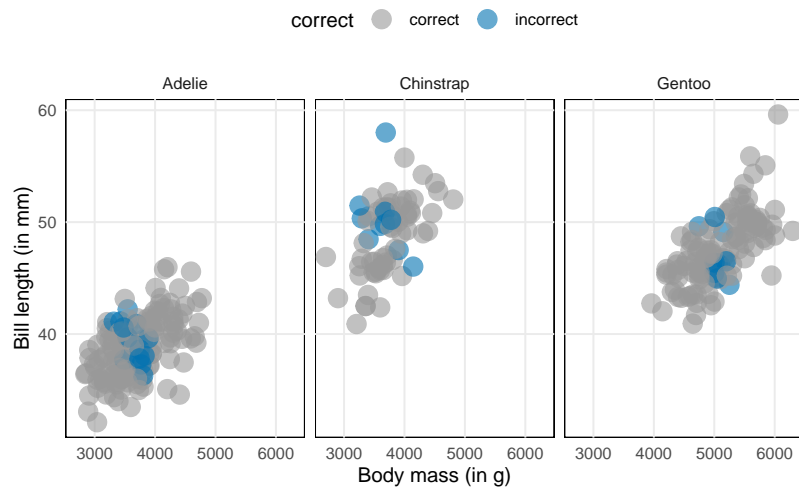
preds %>%

```

```

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)
```

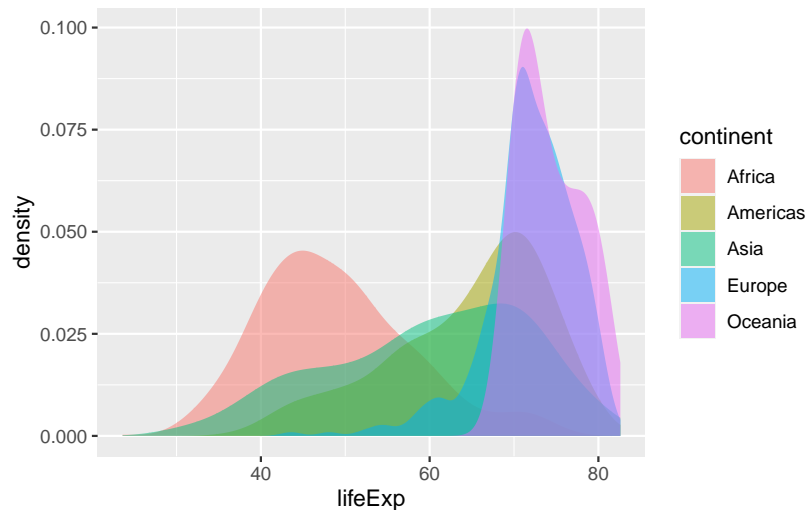


Figure 1: Bla bla bla. This is a caption in the margin. Super cool isn't it?

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

““