Setting up Quarto

Ronald (Ryy) Glenn Thomas

2023-06-06

Table of contents

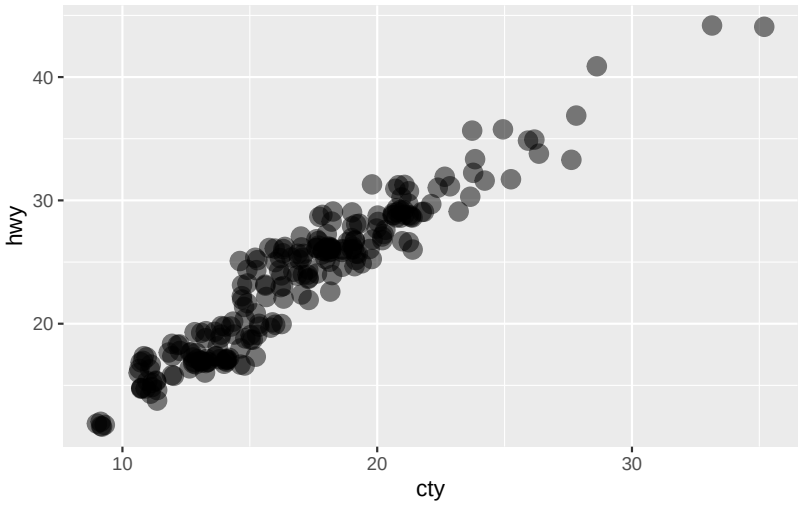
1 Introduction

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

2 - Code

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

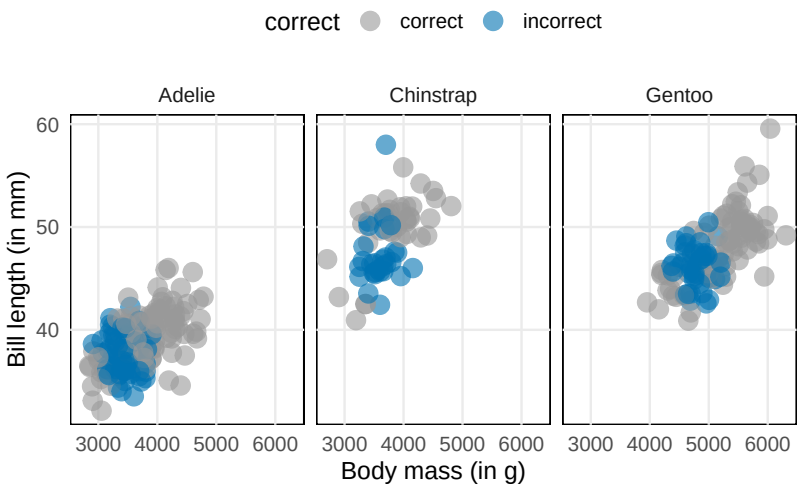
```
library(tidyverse)

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



2.0.1 - Tabsets

2.0.2 Transforming OLS estimates

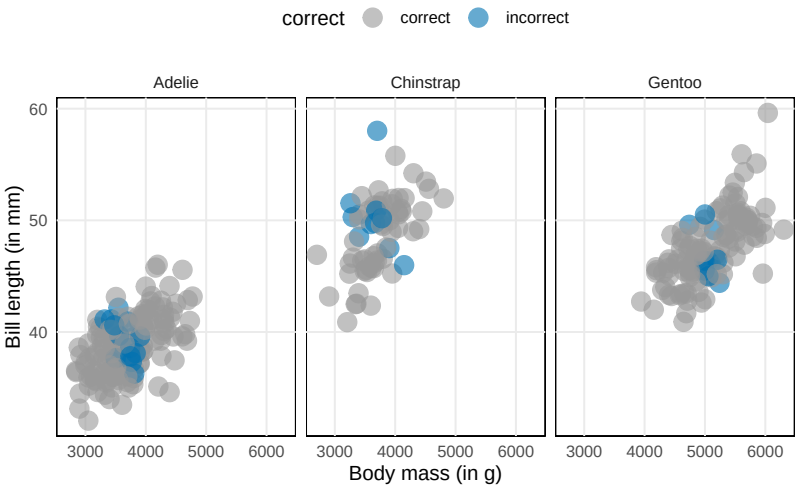
```
preds_lm %>%
  ggplot(aes(body_mass_g, bill_length_mm, col = correct)) +
  geom_jitter(size = 4, alpha = 0.6) +
  facet_wrap(vars(species)) +
  scale_color_manual(values = c('grey60', thematic::okabe_ito(3)[3])) +
  scale_x_continuous(breaks = seq(3000, 6000, 1000)) +
  theme_minimal(base_size = 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)'
  )
```



2.0.3 Maximizing likelihood

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

preds <- dat %>%
  mutate(
    prob.fit = glm.mod$fitted.values,
    prediction = if_else(prob.fit > 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)'
  )
```



2.0.3.1 - Some math stuff

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

2.1 2 - Columns

2.2 2 - Margin captions

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

```r
geom_density(
  mapping = NULL,
  data = NULL,
  stat = "density",
  position = "identity",
  ...,
  na.rm = FALSE,
  orientation = NA,
  show.legend = NA,
  inherit.aes = TRUE,
  outline.type = "upper"
)
```

```r
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
)
```

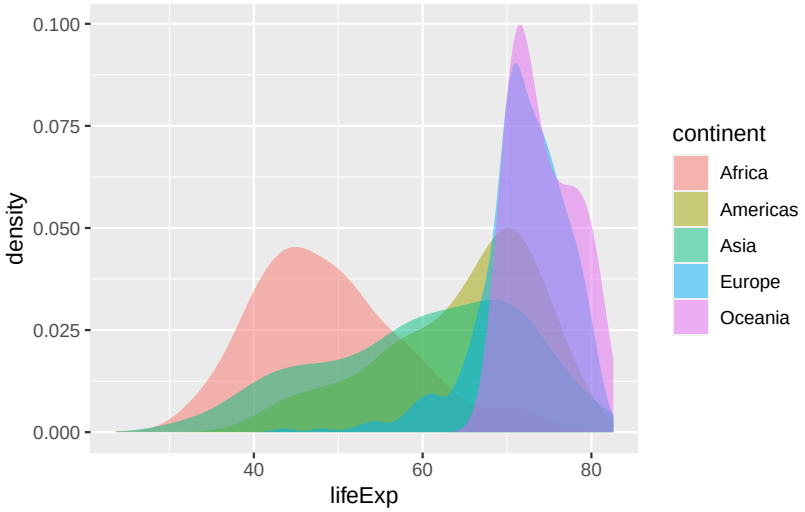


Figure 1: Bla bla bla. This is a caption in the margin. Super cool isn't it?

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

```
~/Dropbox/prj via   v4.2.1
  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
- touch setupquarto.qmd
- v setupquarto.qmd