Exercise 5 Pretzner

Two Variable Visualisation

Georg Pretzner

10 10 2021

Contents

Libraries

```
library(tidyverse)
library(mosaicData)
```

1 Exercise 5

For the following exercises, two variables are given. Choose a suitable visualization method for each of them, and also for their relationship (so create three figures in total). Choose a "Brewer" color palette (using scale_color_brewer(), scale_fill_brewer(), scale_color_distiller() or scale_fill_distiller()).

Variables:

`wt` and `smoke` for the Gestation data (`mosaicData`)

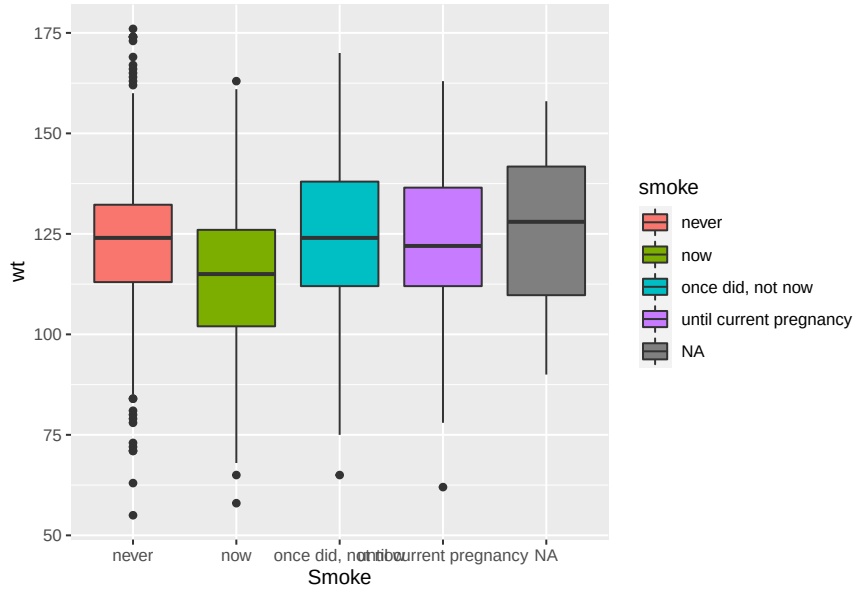
2

```
data(Gestation, package = "mosaicData")
head(Gestation)
```

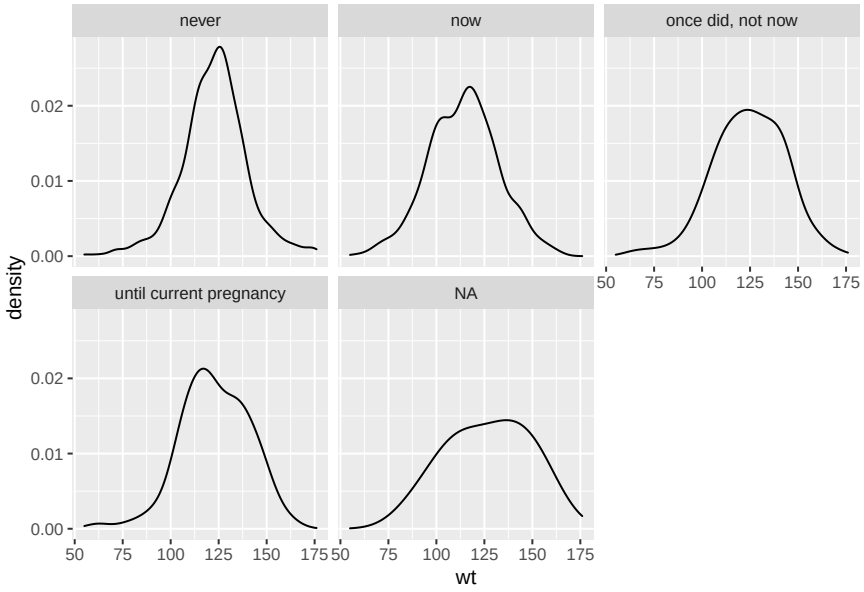
```
## # A tibble: 6 x 23
##      id pluralty    outcome  date       gestation sex      wt parity race    age
##   <dbl> <chr>       <chr>    <date>         <dbl> <chr> <dbl>  <dbl> <chr> <dbl>
## 1    15 single fet~ live bi~ 1964-11-11       284 male    120      1 asian    27
```

```
## 2    20 single fet~ live bi~ 1965-02-07       282 male    113      2 white    33
## 3    58 single fet~ live bi~ 1965-04-25       279 male    128      1 white    28
## 4    61 single fet~ live bi~ 1965-02-12        NA male    123      2 white    36
## 5    72 single fet~ live bi~ 1964-11-25       282 male    108      1 white    23
## 6   100 single fet~ live bi~ 1965-07-31       286 male    136      4 white    25
## # ... with 13 more variables: ed <chr>, ht <dbl>, wt.1 <dbl>, drace <chr>,
## #   dage <dbl>, ded <chr>, dht <dbl>, dwt <dbl>, marital <chr>, inc <chr>,
## #   smoke <chr>, time <chr>, number <chr>
```

```
ggplot(Gestation, aes(smoke, wt, fill=smoke)) +
  geom_boxplot() +
  xlab("Smoke") +
  scale_color_brewer(palette = 8)
```




```
ggplot(Gestation, aes(x = wt, fill = wt)) +
geom_density() +
facet_wrap(~smoke)
```


never
now
once did, not now
until current pregnancy
NA
density
0.02
0.01
0.00
50
75
100
125
150
175
wt