Porf-4

Heather Hawkins

2023-04-04

Debbie had students take a survey on color and emotion. The survey asked students to rate a color on a scale of 1-6 based on what that color reminds you of a certain emotion. The EMOTIONS were: anger, envy, fear, and jealousy. The colors were "black","green","red","violet","blue","white","pink","yellow", "brown","gray","orange", and "purple".

I was asked to analyze this data. As it was taken by paper, I had to manually fill in data.

I was also asked to present this data, so I made graphs for each emotion.

Adding DATA

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ANGER_debbie <- tribble(
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##FEAR
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)


##JEALOUSY
JEALOUSY_debbie <- tribble(
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"violet", 2,
"blue", 4,
"white", 3,
"pink", 3,
"yellow", 2,
"brown", 3,
"gray", 5,
"orange", 4,
"purple", 2,
  "black", 4,
"green", 1,
"red", 4,
"violet", 1,
```

```
"blue", 1,
"white", 1,
"pink", 1,
"yellow", 1,
"brown", 2,
"gray", 3,
"orange", 3,
"purple", 1,
  "black", 3,
"green", 5,
"red", 4,
"violet", 1,
"blue", 1,
"white", 1,
"pink", 3,
"yellow", 1,
"brown", 1,
"gray", 1,
"orange", 4,
"purple", 1,
  "black", 1,
"green", 3,
"red", 2,
"violet", 2,
"blue", 1,
"white", 1,
"pink", 1,
"yellow", 1,
"brown", 1,
"gray", 1,
"orange", 1,
"purple", 1,
  "black", 4,
"green", 6,
"red", 4,
"violet", 2,
"blue", 1,
"white", 1,
"pink", 1,
"yellow", 1,
"brown", 1,
"gray", 1,
"orange", 2,
"purple", 1,
  "black", 4,
"green", 4,
"red", 4,
"violet", 1,
"blue", 1,
"white", 1,
"pink", 1,
"yellow", 4,
"brown", 1,
```

```
    "gray", 1,
    "orange", 1,
    "purple", 1
)
```
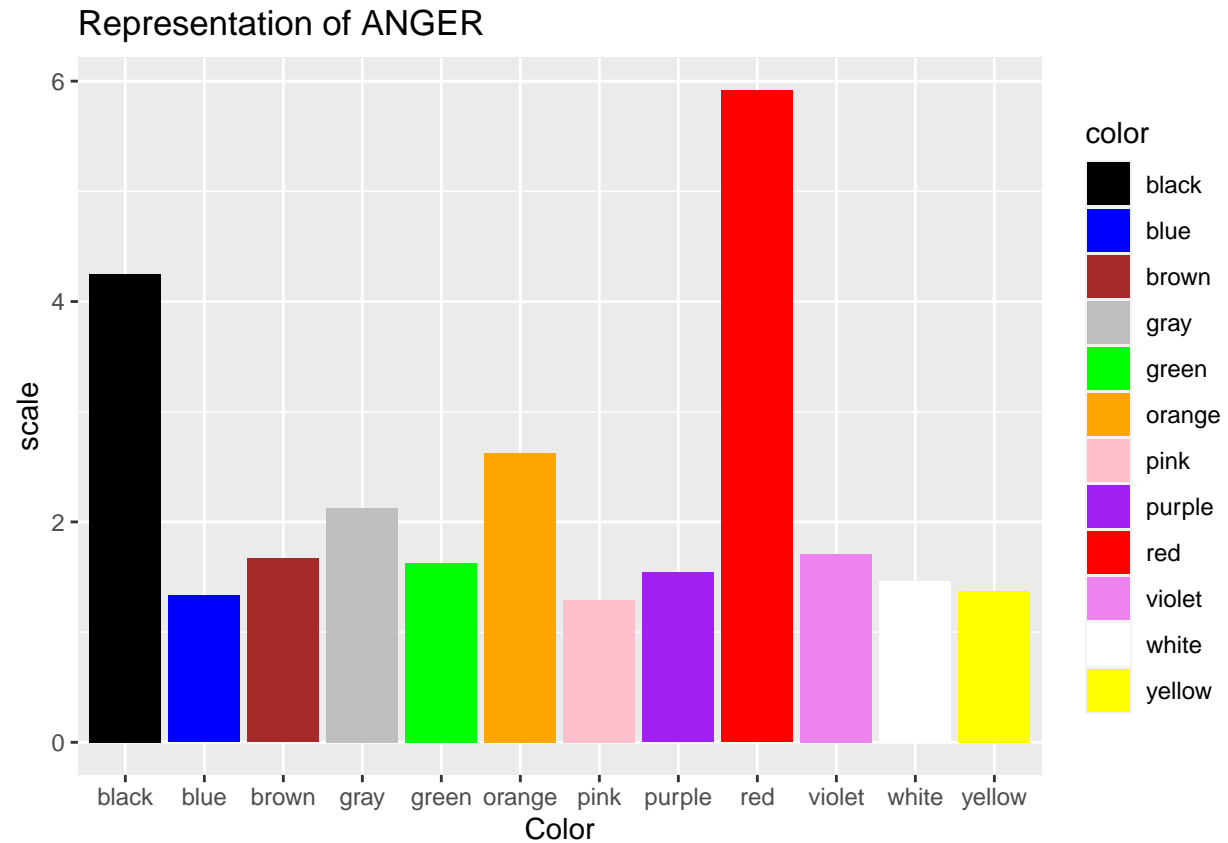
Plotting data

This is the average of certain colors for each emotion.

```
ANGER_debbie %>%
  group_by(color) %>%
  summarize(m = mean(scale))
```

```
## # A tibble: 12 x 2
##    color      m
##    <chr>  <dbl>
##  1 black   4.25
##  2 blue    1.33
##  3 brown   1.67
##  4 gray    2.12
##  5 green   1.62
##  6 orange  2.62
##  7 pink    1.29
##  8 purple  1.54
##  9 red     5.92
## 10 violet  1.71
## 11 white   1.46
## 12 yellow  1.38
```
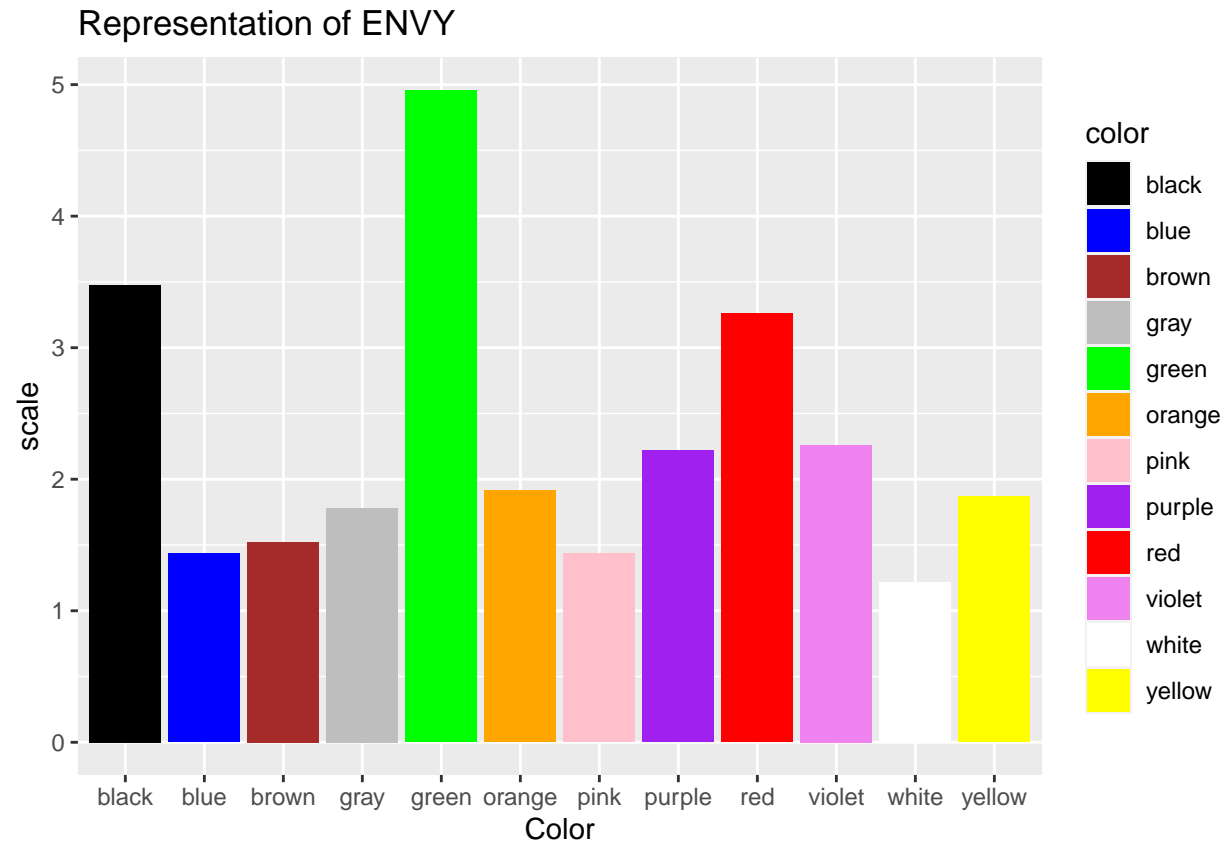
```
ANGER_debbie %>%
  ggplot(aes(x = color, y = scale, fill= color)) +
  geom_bar(position = "dodge", stat = "summary", fun = "mean") + scale_fill_manual(values = c("black","
```

Representation of ANGER


```
ENVY_debbie %>%
  group_by(color) %>%
  summarize(m = mean(scale))
```

```
## # A tibble: 12 x 2
##     color       m
##     <chr>   <dbl>
##  1 black    3.48
##  2 blue     1.43
##  3 brown    1.52
##  4 gray     1.78
##  5 green    4.96
##  6 orange   1.91
##  7 pink     1.43
##  8 purple   2.22
##  9 red      3.26
## 10 violet   2.26
## 11 white    1.22
## 12 yellow   1.87
```

```
ENVY_debbie %>%
  ggplot(aes(x = color, y = scale, fill= color)) +
  geom_bar(position = "dodge", stat = "summary", fun = "mean") + scale_fill_manual(values = c("black","
```

Representation of ENVY
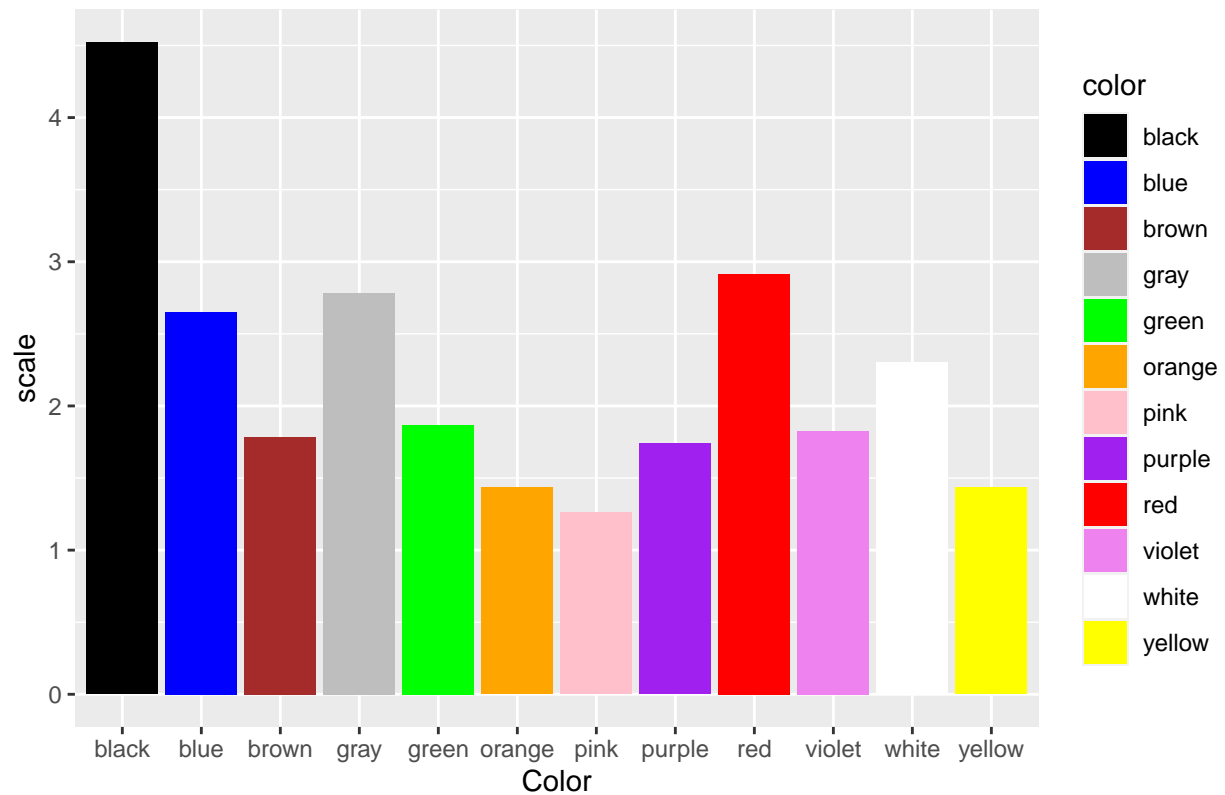


```
FEAR_debbie %>%
  group_by(color) %>%
  summarize(m = mean(scale))
```

```
## # A tibble: 12 x 2
##     color       m
##     <chr>   <dbl>
##  1 black    4.52
##  2 blue     2.65
##  3 brown    1.78
##  4 gray     2.78
##  5 green    1.87
##  6 orange   1.43
##  7 pink     1.26
##  8 purple   1.74
##  9 red      2.91
## 10 violet   1.83
## 11 white    2.30
## 12 yellow   1.43
```

```
FEAR_debbie %>%
  ggplot(aes(x = color, y = scale, fill= color)) +
  geom_bar(position = "dodge", stat = "summary", fun = "mean") + scale_fill_manual(values = c("black","
```
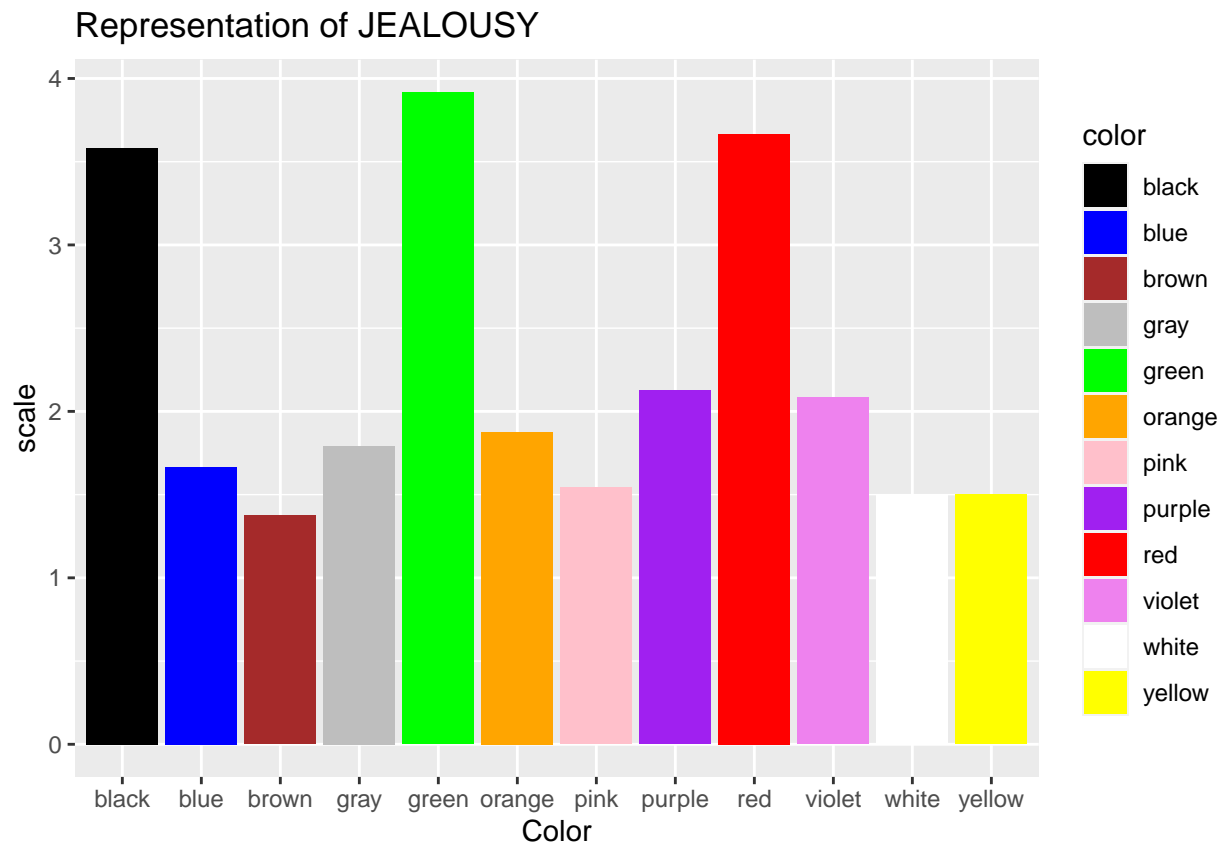
Representation of FEAR


```
JEALOUSY_debbie %>%
  group_by(color) %>%
  summarize(m = mean(scale))
```

```
## # A tibble: 12 x 2
##    color       m
##    <chr>   <dbl>
##  1 black    3.58
##  2 blue     1.67
##  3 brown    1.38
##  4 gray     1.79
##  5 green    3.92
##  6 orange   1.88
##  7 pink     1.54
##  8 purple   2.12
##  9 red      3.67
## 10 violet   2.08
## 11 white    1.5
## 12 yellow   1.5
```

```
JEALOUSY_debbie %>%
  ggplot(aes(x = color, y = scale, fill= color)) +
  geom_bar(position = "dodge", stat = "summary", fun = "mean") + scale_fill_manual(values = c("black","
```

Representation of JEALOUSY

GENDER PREFER