

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(
  ~color, ~scale,
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##ENVY
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  ~color, ~scale,

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##FEAR
FEAR_debbie <- tribble(
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"purple", 1
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```

##JEALOUSY

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JEALOUSY_debbie <- tribble(
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"white", 1,  
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"violet", 1,  
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"pink", 1,  
"yellow", 1,  
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"gray", 1,  
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"green", 6,  
"red", 5,  
"violet", 4,  
"blue", 1,  
"white", 1,  
"pink", 1,  
"yellow", 2,  
"brown", 2,  
"gray", 1,  
"orange", 2,
```

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

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

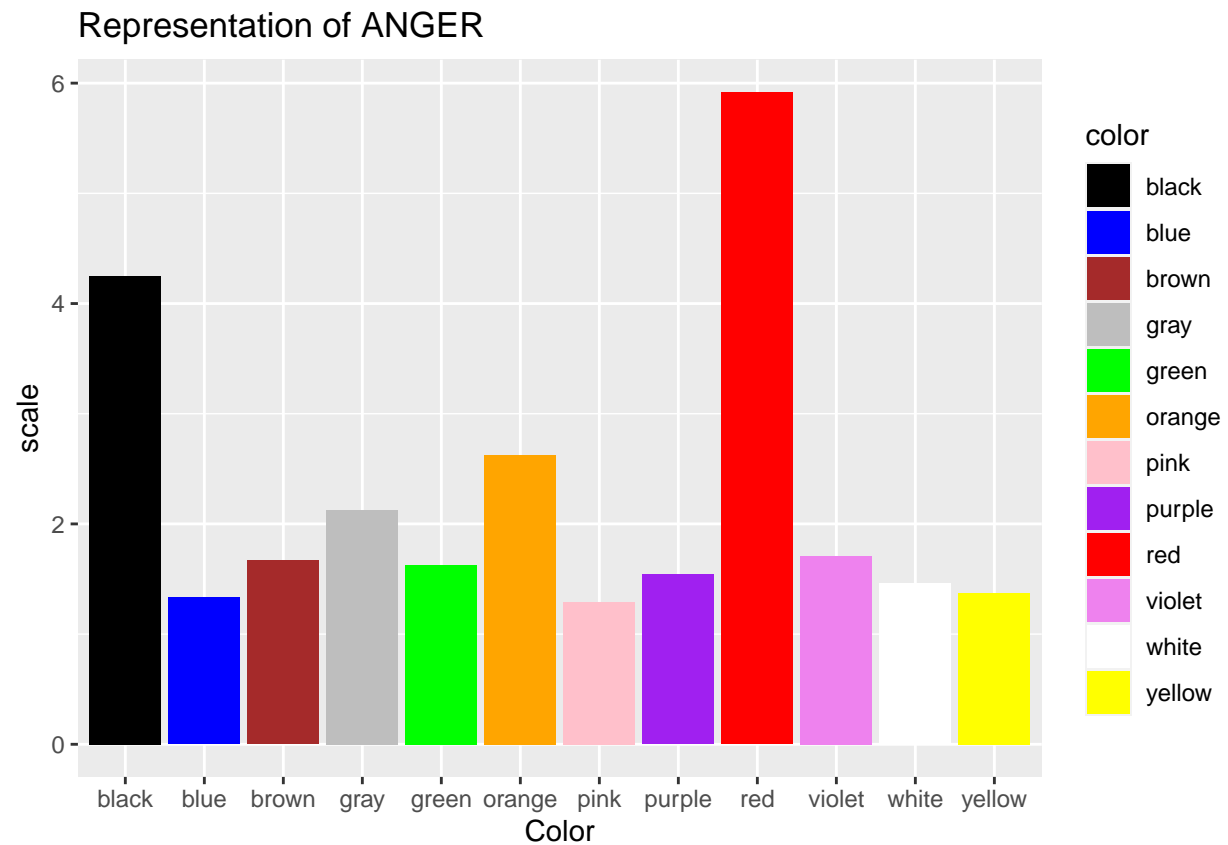
Plotting data

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
```

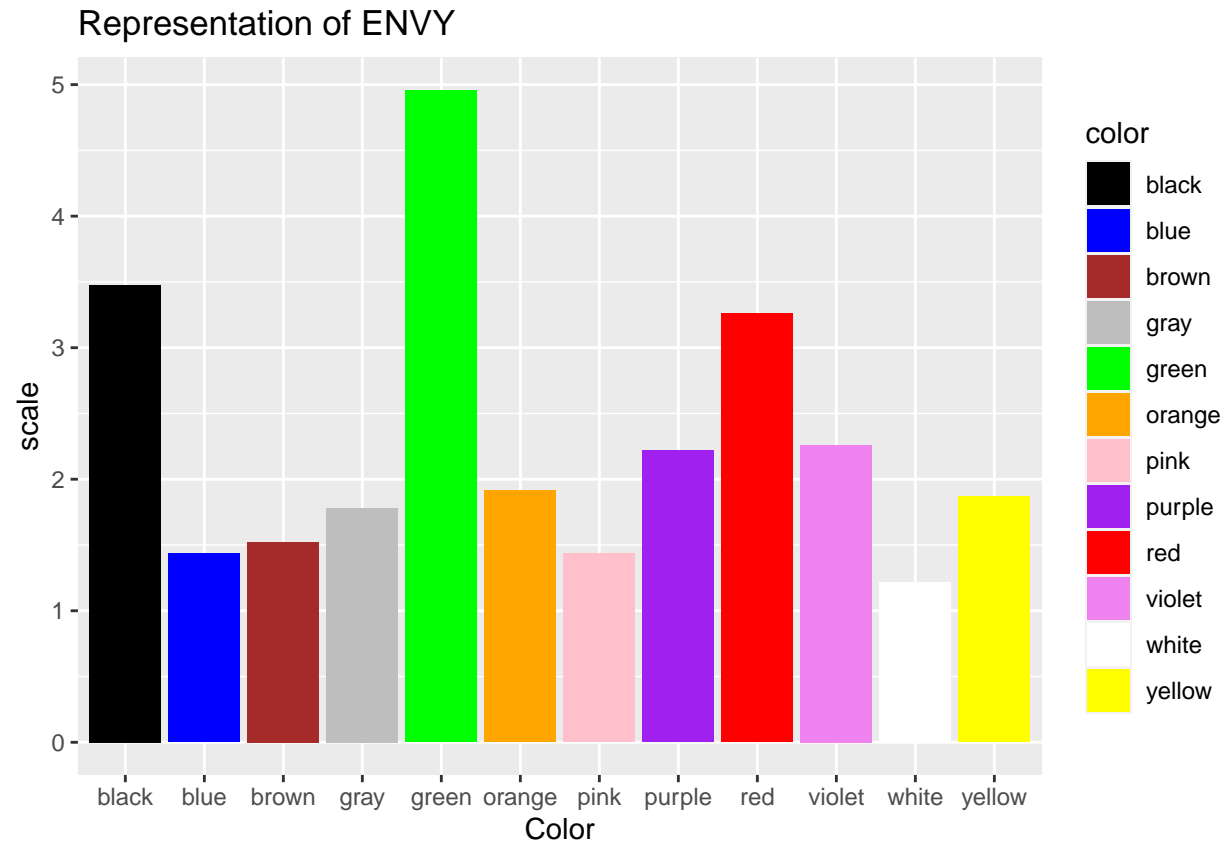
```
ANGER_debbie %>%
  ggplot(aes(x = color, y = scale, fill= color)) +
  geom_bar(position = "dodge", stat = "summary", fun = "mean") + scale_fill_manual(values = c("black", "black", "black", "black", "black", "black", "black", "black", "black", "black", "black", "black"))
```



```
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", "l
```

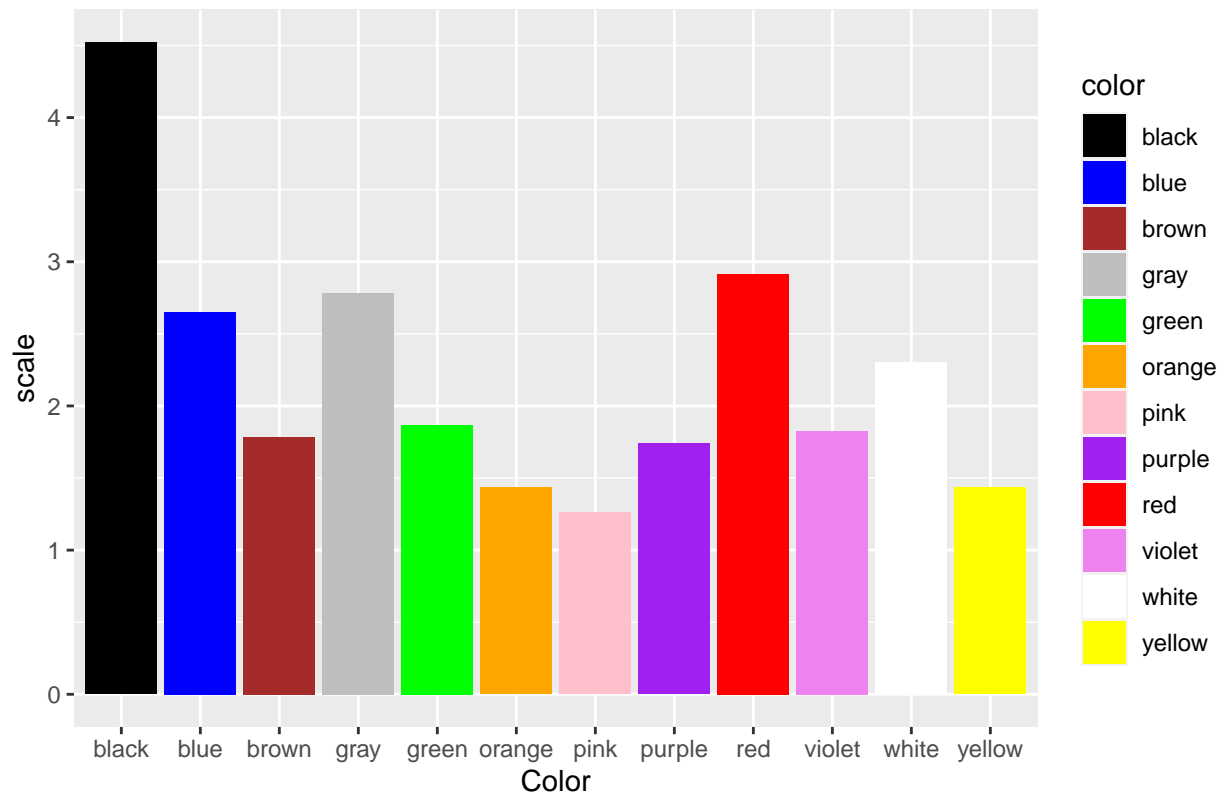



```
FEAR_debbie %>%
  group_by(color) %>%
  summarize(m = mean(scale))
```

```
## # 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", "l
```

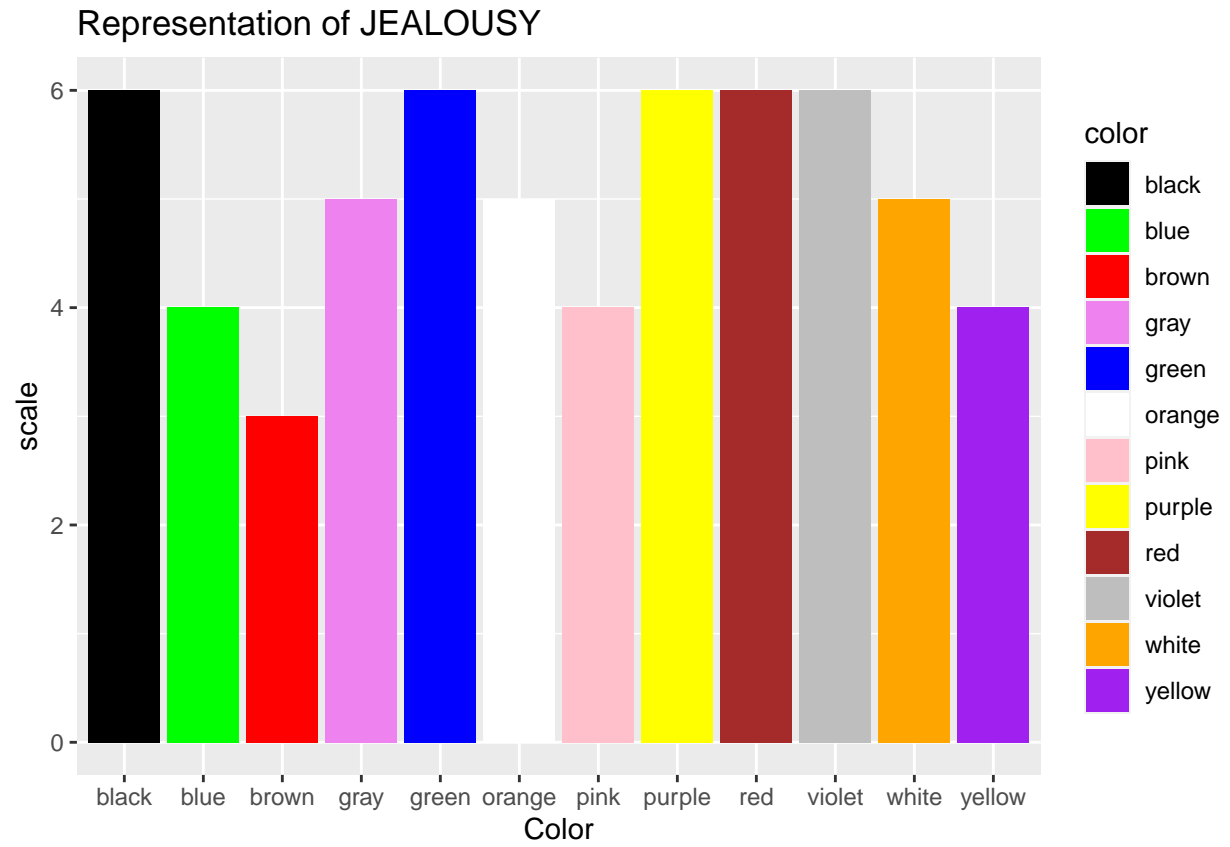
Representation of FEAR



```
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(stat = "identity",
           position = "dodge") + scale_fill_manual(values = c("black","green","red","violet","blue","wh
```



GENDER PREFER