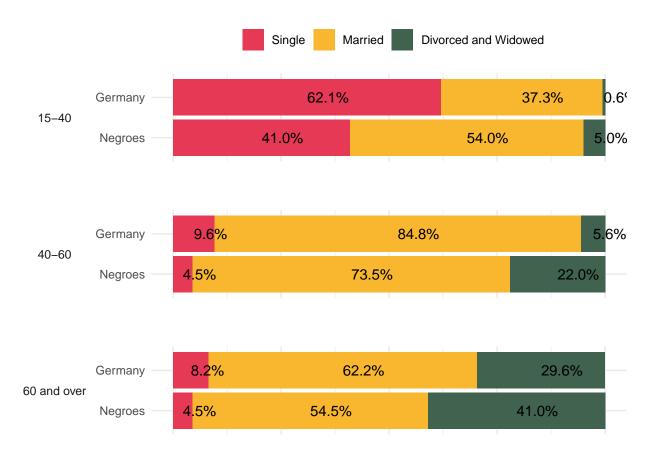
Dubois Challenge

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2021-02-17

10 challenges about recreating Dubois data portraits using RStudio. I will do Challenge 02.

Challenge 02



What to improve

 \bullet Try to customize legend shape. fill = . automatically got square-shaped legend, where the original graph has shapes as filled circles.

Codes

```
library(readr)
conjugal <- read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/2021/20
library(tidyverse)
conjugal_new <- conjugal %>%
 pivot_longer(
   cols = 3:5,
   names_to = "Status",
   values_to = "Status_pct"
  ) %>%
  mutate(Status_pct = replace(Status_pct, Population == "Germany" &
                                          Age == "60 and over" &
                                          Status == "Divorced and Widowed",
                              29.6)) %>%
  # ^ fix wrong value
  mutate(Population = fct_relevel(Population, "Germany", after = 1)) %>%
  mutate(Status = fct relevel(Status, "Single", "Married", "Divorced and Widowed"))
conjugal_new %>%
  ggplot(aes(x = Population, y = Status_pct, fill = Status)) +
  geom_bar(stat = "identity") +
  coord_flip() + scale_y_reverse() +
  theme_minimal() +
  facet_wrap(~Age, ncol = 1, strip.position = "left") +
  geom_text(aes(label = scales::percent(Status_pct/100, accuracy = 0.1)),
            hjust = 0, position = position_stack(vjust = 0.5)) +
  theme(legend.position = "top", legend.title = element_blank(),
        axis.title = element_blank(), axis.text.x = element_blank(),
        strip.text.y.left = element_text(angle = 0),
        strip.placement = "outside",
       panel.spacing.y = unit(2.5, "lines")) +
  scale_fill_manual(values = c("#E53956", "#F9B730", "#40624F"))
```