Tidy Tuesday - Week 1

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Task at hand

For this week, I will be looking at the #DuBoisChallenge taken from here. I would like to complete challenges 1 and 3.

Challenge 01

Comparative Increase of White and Colored Population in Georgia

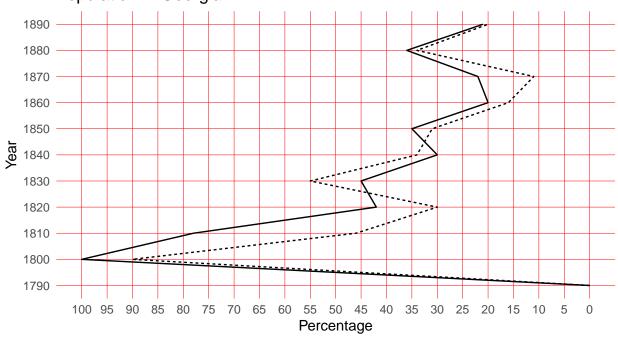
Data Wrangling

```
georgia_pop <- georgia_pop_raw %>%
pivot_longer(!Year, names_to = "Group", values_to = "Percentage") %>%
mutate(Group = as_factor(Group))
```

Data Visualization

```
options(repr.plot.width=500, repr.plot.height=800)
ggplot(data = georgia_pop, aes(x = Year, y = Percentage, group = Group)) +
  geom_line(aes(linetype = Group)) +
  scale_x_continuous(breaks = seq(1790, 1890, by = 10)) +
  scale_y_reverse(breaks = seq(0, 100, by = 5)) +
 labs(
   title = "Comparative Increase of White and Colored\nPopulation in Georgia",
   xlab = "Year",
   ylab = "Percentage"
  ) +
  theme_minimal() +
  theme(
   legend.title = element_blank(),
   panel.grid.major = element_line(size = 0.1, linetype = 'solid', colour = "red"),
   panel.grid.minor = element_blank(),
   legend.position = "bottom") +
  coord_flip()
```

Comparative Increase of White and Colored Population in Georgia



Challenge 03

Occupations of Negroes and Whites in Georgia

Data Wrangling

```
occupation <- occupation_raw %>%
  mutate(Group = as_factor(Group), Occupation = as_factor(Occupation))

levels(occupation$Occupation)

## [1] "Agriculture, Fisheries and Mining"

## [2] "Manufacturing and Mechanical Industries"

## [3] "Domestic and Personal Service"

## [4] "Professions"

## [5] "Trade and Transportation"

ggplot(data = occupation, aes(x = Occupation, y = Percentage, fill = Group)) +
    geom_bar(stat = "identity", position="dodge") +
    scale_y_continuous(breaks = seq(0, 70, by=10), limits = c(0, 70)) +
    scale_x_discrete(
    labels = c("Agriculture, \nFisheries\nand Mining", "Manufacturing and\nMechanical\nIndustries", "Dom theme_minimal() +
    theme(legend.title = element_blank())
```

Colored --- White

