

Data Visualization 240: Final Project

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# wrangle data for plot
data_plot_bar_race <- data_combined_2018 %>%
  summarize(white = mean(white, na.rm = TRUE),
            black = mean(black, na.rm = TRUE),
            asian = mean(asian, na.rm = TRUE),
            multiracial = mean(multiracial, na.rm = TRUE),
            other = mean(other, na.rm = TRUE),
            native_american = mean(native_american, na.rm = TRUE),
            pacific_islander = mean(pacific_islander, na.rm = TRUE),
            hispanic_latinx = mean(hispanic_latinx, na.rm = TRUE)) %>%
  pivot_longer(cols = 1:8, names_to = "race", values_to = "race_percent_average") %>%
  mutate(race = str_replace(string = race,
                            pattern = "_",
                            replacement = " "),
         race = str_to_title(race))

data_plot_bar_race$race <- with(data_plot_bar_race, reorder(race, race_percent_average))
```

Equitable Access to Federal Public Land Overnight Reservable Sites

Background

Visualizations

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# create plot
plot_bar_race <- ggplot(data = data_plot_bar_race) +
  geom_col(aes(x = race_percent_average,
              y = race,
              fill = race)) +
  labs(x = "Average proportion of race in home ZIP codes",
       y = "Race",
       fill = "Race",
       title = "Racial Breakdown of Visitors' Home ZIP Codes\nfor Reservations at Reservable Overnight Sites") +
  theme_minimal() +
  theme(panel.grid.minor.x = element_blank(),
        plot.background = element_rect("white"),
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#axis.text = element_text(size = 12),
#axis.title = element_text(size = 14, face = "bold"),
#title = element_text(size = 14, face = "bold"),
legend.position = "none") +
scale_fill_manual(values = c("Other" = "#999999", "Black" = "#E69F00", "Multiracial" = "#56B4E9",
                             "Asian" = "#009E73", "White" = "#F0E442", "Pacific Islander" = "#0072B2",
                             "Native American" = "#D55E00", "Hispanic Latinx" = "#CC79A7"))

plot_bar_race

```

