

Pilot Data

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Load and Merge Data

```
pilot_data_hannah <- readxl::read_xlsx("w241 Final Project Data.xlsx", sheet = 2, n_max = 48)
pilot_data_allison <- readxl::read_xlsx("w241 Final Project Data.xlsx", sheet = 3, n_max = 48)
pilot_data_carlie <- readxl::read_xlsx("w241 Final Project Data.xlsx", sheet = 4, n_max = 48)
pilot_data_carlie <- pilot_data_carlie[,c(1:51)]
pilot_data <- rbind(pilot_data_hannah, pilot_data_allison, pilot_data_carlie)
```

Prepare data for plot

```
pilot_data <- pilot_data[,c(8,45,47)] %>% pivot_longer(cols = c(`Average Bias`, `Average Reliability`),
  names_to = 'Metric', values_to = 'Value')
pilot_data$Value <- as.numeric(pilot_data$Value)
pilot_data$Website <- as.factor(pilot_data$Website)
pilot_data$Metric <- as.factor(pilot_data$Metric)
```

Plot Data

```
ggplot(pilot_data, aes(fill = Website, y = Value, x = Metric)) +
  geom_bar(position = 'dodge', stat = 'summary', fun = 'mean') +
  labs(title = "Average Bias and Reliability of News Sources on Facebook and Youtube") +
  scale_y_continuous(limits = c(-10,45), breaks = c(-10,0,10,20,30,40))
```

Average Bias and Reliability of News Sources on Facebook and Youtube

