

# Study S2B

January 28, 2025

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## Read Data

```
# Set this to TRUE if you have API access, FALSE if using CSV
USE_API <- TRUE

if(USE_API) {
  ## Pull directly from Qualtrics API
  qual_data <- fetch_survey(surveyID='SV_2tycLNwc08A12cK',
    label = T,
    convert = F,
    start_date = "2024-01-22",
    force_request = T)
} else {
  # Read the processed data directly from CSV
  d0 <- read.csv('StudyS2B.csv', check.names = F)
}

# Define the categories
women <- c('The Broski Report with Brittany Broski', 'Would You Believe...? with Rebecca
  ↳ Rogers', 'Wiser Than Me with Julia Louis-Dreyfus', 'Where Should We Begin? with
  ↳ Esther Perel', 'Money Rehab with Nicole Lapin')
episodes <- c('The Diary Of A CEO with Steven Bartlett', 'On Purpose with Jay Shetty',
  ↳ 'Lex Fridman Podcast', 'The School of Greatness', 'Passion Struck with John R.
  ↳ Miles', 'The Joe Budden Podcast', 'The Bill Simmons Podcast', 'This Past Weekend w/
  ↳ Theo Von', 'Money Rehab with Nicole Lapin', 'The Peter Attia Drive')
duration <- c('Huberman Lab', 'Shawn Ryan Show', 'Lex Fridman Podcast', 'The Joe Budden
  ↳ Podcast', 'Dan Carlin\'s Hardcore History')
years <- c('What Now? with Trevor Noah', 'The Ultimate Human with Gary Brecka', 'The
  ↳ Broski Report with Brittany Broski', 'Would You Believe...? with Rebecca Rogers',
  ↳ 'The Wayback with Ryan Sickler', 'Wiser Than Me with Julia Louis-Dreyfus', 'All There
  ↳ Is with Anderson Cooper', 'The Ezra Klein Show', 'Passion Struck with John R. Miles',
  ↳ 'Money Rehab with Nicole Lapin', 'The Money Mondays')

if(USE_API) {
  d0 <- qual_data |>
  filter(!is.na(`choice-7`), !is.na(workerId), Finished==1) |>
  mutate(
    gender_feedback = as.numeric(grepl("feature a female host", feedbackItem1) |
      grepl("feature a female host", feedbackItem2) |
      grepl("feature a female host", feedbackItem3)),
    episodes_shown = as.numeric(grepl("have more than 300 episodes", feedbackItem1) |
      grepl("have more than 300 episodes", feedbackItem2) |
      grepl("have more than 300 episodes", feedbackItem3)),
    duration_shown = as.numeric(grepl("have an average episode length greater than 2
      ↳ hours", feedbackItem1) |
      grepl("have an average episode length greater than 2 hours",
        ↳ feedbackItem2) |
      grepl("have an average episode length greater than 2 hours",
        ↳ feedbackItem3)),
    years_shown = as.numeric(grepl("started over 3 years ago", feedbackItem1) |
      grepl("started over 3 years ago", feedbackItem2) |
      grepl("started over 3 years ago", feedbackItem3)),
    female = case_when(`choice-7` %in% women ~ 1,
```

```

      TRUE ~ 0),
  episodes_pick = case_when(`choice-7` %in% episodes ~ 1,
    TRUE ~ 0),
  duration_pick = case_when(`choice-7` %in% duration ~ 1,
    TRUE ~ 0),
  years_pick = case_when(`choice-7` %in% years ~ 1,
    TRUE ~ 0),
  encouragement = case_when(group=="encourage" ~ 1,
    group=="base" ~ 0,
    TRUE ~ NA),
  race_code = case_when(race=="White / Caucasian" ~ 1, TRUE ~ 0),
  age = as.numeric(age),
  gender_code = case_when(gender=="Man" ~ 1, TRUE ~ 0),
  base_gender = rowSums(across(`choice-1`:`choice-6`, ~ . %in% women))) |>
select(
  encouragement, gender_feedback, female, episodes_pick, episodes_shown,
  ↪ duration_shown, duration_pick, years_pick, years_shown, base_gender, gender, race,
  ↪ age, gender_code, race_code
) |>
slice(1:1000) # pre-registered sample size

# Write the API-pulled data into a CSV file
write.csv(d0, 'StudyS2B.csv', row.names = FALSE, quote = TRUE)
}

# Create the encouragement-specific dataframes
d0_w_encouragement <- d0 |>
  filter(encouragement == 1)

d0_no_encouragement <- d0 |>
  filter(encouragement == 0)

```

## Variable Names

Variable	Description
encouragement	Binary indicator of whether the participant was randomly assigned to the encouragement condition.
gender_feedback	Binary indicator of whether the participant was randomly assigned to gender feedback condition.
female	Binary indicator of whether the participant selected a female podcast host for their seventh selection.
episodes_shown	Binary indicator of whether the participant was randomly assigned to receive feedback on the number of episodes in the podcast.
episodes_pick	Binary indicator of whether the participant selected a podcast with over 300 episodes.
duration_shown	Binary indicator of whether the participant was randomly assigned to receive feedback on the duration of podcasts.
duration_pick	Binary indicator of whether the participant selected a podcast with an average length of over 2 hours.
years_shown	Binary indicator of whether the participant was randomly assigned to receive feedback about when the podcast started.
years_pick	Binary indicator of whether the participant selected a podcast that started over 3 years ago.
base_gender	Count of the number of podcasts with a female host selected in the initial six podcasts.
gender	Self-selected gender.
race	Self-selected race.
age	Self-entered age.
gender_code	Dummy code for gender (male = 1).
race_code	Dummy code for race (white = 1).

## Demographics

## Excluded Participants: 99

##		Percentage	gender
## 1	Another gender not listed here:	0.2	
## 2		Man	52.8
## 3		Non-binary	0.7
## 4		Woman	46.3

##		Percentage	Race
## 1	American Indian or Alaskan Native	0.3	
## 2	Asian / Pacific Islander	7.5	
## 3	Black or African American	8.4	
## 4	Hispanic / Latinx	4.6	
## 5	White / Caucasian	79.2	

##	#	A tibble:	1	x	2
##		mean_age	sd_age		
##		<dbl>	<dbl>		
## 1		43.8	12.1		

## Primary Analysis

```
# primary model, no encouragement
r1 <- lm(female ~ gender_feedback * encouragement, data=d0)
robust_summary(r1)

##
## Call:
## lm(formula = female ~ gender_feedback * encouragement, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4980 -0.4257 -0.2360  0.5020  0.7640
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      0.23600    0.02696   8.753 < 2e-16 ***
## gender_feedback    0.18970    0.04143   4.578 5.28e-06 ***
## encouragement    0.05306    0.03919   1.354  0.176
## gender_feedback:encouragement 0.01919    0.05962   0.322  0.748
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4698 on 996 degrees of freedom
## Multiple R-squared:  0.04712,    Adjusted R-squared:  0.04425
## F-statistic: 16.42 on 3 and 996 DF,  p-value: 2.032e-10
```

## Secondary Analysis

```
## episodes feedback
r_episodes <- lm(episodes_pick ~ episodes_shown*encouragement, data=d0)

# Display the summary with robust standard errors
robust_summary(r_episodes)
```

```
##
## Call:
## lm(formula = episodes_pick ~ episodes_shown * encouragement,
##     data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3864 -0.3552 -0.3261  0.6448  0.7381
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      0.38636    0.05250   7.359 3.87e-13 ***
## episodes_shown    -0.03113    0.05759  -0.541  0.5889
## encouragement    -0.12446    0.07151  -1.740  0.0821 .
## episodes_shown:encouragement  0.09537    0.07876   1.211  0.2262
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4731 on 996 degrees of freedom
## Multiple R-squared:  0.003901, Adjusted R-squared:  0.000901
## F-statistic: 1.3 on 3 and 996 DF, p-value: 0.273
```

```
robust_confint(r_episodes)
```

```
##              2.5 %      97.5 %
## (Intercept)    0.28333643 0.48939084
## episodes_shown -0.14414163 0.08187665
## encouragement -0.26478483 0.01586708
## episodes_shown:encouragement -0.05918771 0.24992135
```

```
## duration feedback
r_duration <- lm(duration_pick ~ duration_shown*encouragement, data=d0)

# Display the summary with robust standard errors
robust_summary(r_duration)
```

```
##
## Call:
## lm(formula = duration_pick ~ duration_shown * encouragement,
##     data = d0)
##
## Residuals:
```

```
##      Min      1Q  Median      3Q      Max
## -0.1832 -0.1832 -0.1667 -0.1667  0.9333
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.085714   0.048711   1.760   0.0788 .
## duration_shown  0.097475   0.051929   1.877   0.0608 .
## encouragement -0.019048   0.061798  -0.308   0.7580
## duration_shown:encouragement 0.002525   0.066699   0.038   0.9698
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3726 on 996 degrees of freedom
## Multiple R-squared:  0.005793, Adjusted R-squared:  0.002799
## F-statistic: 1.935 on 3 and 996 DF, p-value: 0.1223
```

```
robust_confint(r_duration)
```

```
##              2.5 %    97.5 %
## (Intercept) -0.009872717 0.1813013
## duration_shown -0.004426834 0.1993776
## encouragement -0.140316871 0.1022216
## duration_shown:encouragement -0.128362575 0.1334118
```

```
## years feedback
r_years <- lm(years_pick ~ years_shown*encouragement, data=d0)

# Display the summary with robust standard errors
robust_summary(r_years)
```

```
##
## Call:
## lm(formula = years_pick ~ years_shown * encouragement, data = d0)
##
## Residuals:
##      Min      1Q  Median      3Q      Max
## -0.6638 -0.5610  0.3362  0.4390  0.5013
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.57937   0.04433  13.069 <2e-16 ***
## years_shown    -0.08071   0.05137  -1.571   0.116
## encouragement  0.08443   0.06263   1.348   0.178
## years_shown:encouragement -0.02205   0.07238  -0.305   0.761
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4956 on 996 degrees of freedom
## Multiple R-squared:  0.01066, Adjusted R-squared:  0.007683
## F-statistic: 3.578 on 3 and 996 DF, p-value: 0.01357
```



```
robust_confint(r_years)
```

```
##                2.5 %    97.5 %
## (Intercept)      0.49237289 0.66635727
## years_shown      -0.18151474 0.02010361
## encouragement    -0.03847683 0.20733288
## years_shown:encouragement -0.16409280 0.11999564
```

```
## interaction of base gender
```

```
# primary model
```

```
r_interaction <- lm(female ~ gender_feedback*base_gender, data=d0)
```

```
# Display the summary with robust standard errors
```

```
robust_summary(r_interaction)
```

```
##
## Call:
## lm(formula = female ~ gender_feedback * base_gender, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6215 -0.3277 -0.2363  0.4977  0.8552
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      0.32773    0.03658   8.959 < 2e-16 ***
## gender_feedback    0.29373    0.05213   5.634 2.29e-08 ***
## base_gender      -0.04573    0.02031  -2.252  0.0245 *
## gender_feedback:base_gender -0.07343    0.02879  -2.550  0.0109 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4629 on 996 degrees of freedom
## Multiple R-squared:  0.07478,    Adjusted R-squared:  0.07199
## F-statistic: 26.83 on 3 and 996 DF,  p-value: < 2.2e-16
```

## Figure S5A Code

```
dgender_plot <- d0_no_encouragement |>
  select(gender_feedback, female) |>
  group_by(gender_feedback, female) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(female == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(gender_feedback==0 ~ coef(summary(r1))[, "Std. Error"][1]*100,
                        TRUE ~ coef(robust_summary(r1))[, "Std. Error"][2]*100)) |>
  mutate(gender_feedback = case_when(gender_feedback==1 ~ "\"Treatment\"",
                                     TRUE ~ "\"Control\"")) |>
  rename(Condition = gender_feedback)

## dataframe for CEO information

dduration_plot <- d0_no_encouragement |>
  select(duration_shown, duration_pick) |>
  group_by(duration_shown, duration_pick) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(duration_pick == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(duration_shown==0 ~ coef(robust_summary(r_duration))[, "Std.
↪ Error"][1]*100,
                        TRUE ~ coef(robust_summary(r_duration))[, "Std. Error"][2]*100))
↪ |>
  mutate(duration_shown = case_when(duration_shown==1 ~ "\"Treatment\"",
                                    TRUE ~ "\"Control\"")) |>
  rename(Condition = duration_shown)

## dataframe for episodes information

deisodes_plot <- d0_no_encouragement |>
  select(episodes_shown, episodes_pick) |>
  group_by(episodes_shown, episodes_pick) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(episodes_pick == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(episodes_shown==0 ~ coef(robust_summary(r_episodes))[, "Std.
↪ Error"][1]*100,
                        TRUE ~ coef(robust_summary(r_episodes))[, "Std. Error"][2]*100))
↪ |>
  mutate(episodes_shown = case_when(episodes_shown==1 ~ "\"Treatment\"",
                                    TRUE ~ "\"Control\"")) |>
  rename(Condition = episodes_shown)

## dataframe for years information

dyears_plot <- d0_no_encouragement |>
  select(years_shown, years_pick) |>
```

```

group_by(years_shown, years_pick) |>
summarise(n = n()) |>
mutate(freq = n / sum(n)) |>
filter(years_pick == 1) |>
mutate(sd = sqrt((freq*(1-freq))/n)*100,
       se = case_when(years_shown==0 ~ coef(robust_summary(r_years))[, "Std.
       ↪ Error"][1]*100,
                       TRUE ~ coef(robust_summary(r_years))[, "Std. Error"][2]*100)) |>
mutate(years_shown = case_when(years_shown==1 ~ "\"Treatment\"",
                               TRUE ~ "\"Control\"")) |>
rename(Condition = years_shown)

df_combined <- bind_rows(
  dduration_plot %>% mutate(Category = "\nOver 3\nHours"),
  dyears_plot %>% mutate(Category = "\nStarted 3\nYears Ago"),
  depisodes_plot %>% mutate(Category = "\nWith Over\n300 Episodes"),
  dgender_plot %>% mutate(Category = "\nWith Female\nHost")
, .id = "id") %>%
mutate(Category = factor(Category, levels = c("\nOver 3\nHours", '\nStarted 3\nYears
  ↪ Ago', "\nWith Over\n300 Episodes", '\nWith Female\nHost')))

p_combined_A <- ggplot(df_combined, aes(x = Condition, y = freq*100, fill = Condition)) +
  geom_bar(stat="identity", width = 0.85, position = position_dodge(width = 0.7)) +
  geom_text(data = df_combined %>% filter(!(Category == "\nOver 3\nHours" & Condition ==
  ↪ "\"Control\"")),
            aes(label=paste0(sprintf("%.1f", freq*100),"%")),
            position=position_dodge(width=0.7), vjust=5, size = 4, color = "white")+
  geom_errorbar(aes(ymin=freq*100-se, ymax=freq*100+se), width = .1, position =
  ↪ position_dodge(width = 0.7)) +
  facet_wrap(~factor(Category, c("\nOver 3\nHours", '\nStarted 3\nYears Ago', "\nWith
  ↪ Over\n300 Episodes", '\nWith Female\nHost')), nrow = 1, strip.position = "bottom")
  ↪ +
  geom_segment(data = df_combined %>% filter(Category %in% c("\nOver 3\nHours", "\nWith
  ↪ Over\n300 Episodes", '\nWith Female\nHost') & Condition == "\"Treatment\""),
              aes(x = 1, xend = 2, y = freq*100 + se + 5, yend = freq*100 + se + 5),
              inherit.aes = FALSE) +
  geom_segment(data = df_combined %>% filter(Category %in% c('\nStarted 3\nYears Ago')
  ↪ & Condition == "\"Control\""),
              aes(x = 1, xend = 2, y = freq*100 + se + 5, yend = freq*100 + se + 5),
              inherit.aes = FALSE) +
  geom_text(data = df_combined %>% filter(Category %in% c("\nWith Over\n300 Episodes") &
  ↪ Condition == "\"Treatment\""),
            aes(x = 1.5, xend = 1.5, y = freq*100 + se + 7, yend = freq*100 + se + 7,
            ↪ label = "n.s."),
            inherit.aes = FALSE, vjust = 0) +
  geom_text(data = df_combined %>% filter(Category %in% c("\nOver 3\nHours") &
  ↪ Condition == "\"Treatment\""),
            aes(x = 1.5, xend = 1.5, y = freq*100 + se + 7, yend = freq*100 + se + 7,
            ↪ label = "+"),
            inherit.aes = FALSE, vjust = 0) +
  geom_text(data = df_combined %>% filter(Category %in% c('\nStarted 3\nYears Ago') &
  ↪ Condition == "\"Control\""),
            aes(x = 1.5, xend = 1.5, y = freq*100 + se + 5, yend = freq*100 + se + 5,
            ↪ label = "*"),

```

```

    inherit.aes = FALSE, vjust = 0) +
geom_text(data = df_combined %>% filter(Category == '\nWith Female\nHost' & Condition
↳ == "\"Treatment\""),
    aes(x = 1.5, xend = 1.5, y = freq*100 + se + 5, yend = freq*100 + se + 5,
    ↳ label = "***"),
    inherit.aes = FALSE, vjust = 0) +
geom_text(data = df_combined %>% filter(Category == "\nOver 3\nHours" & Condition ==
↳ "\"Control\""),
    aes(label = paste0(sprintf("%.1f", freq*100), "%"),
    x = Condition, y = freq*100 + se + 4), # offset to adjust the position
    inherit.aes = FALSE, vjust = -0.5, size = 4, color = "black") +

theme_bw() +
scale_fill_manual(values = c("#990000", "#011F5B"), labels = c("No feedback", "Feedback
↳ provided"), "Feedback") +
scale_y_continuous(labels = function(x) paste0(x,"%"), limits = c(0,85)) +
scale_x_discrete(labels = c("\"Control\"" = "Not\nShown", "\"Treatment\"" = "Shown")) +
labs(x= "Feedback on % of podcasts...", y = "% of New Podcasts with the Target
↳ Attribute",
    caption = 'Note: Error Bars are SEs', title = "The Effect of Getting Feedback on
↳ Your Panel's Composition") +
theme(plot.caption = element_text(face = "italic"),
    legend.position = "none",
    #legend.position = c(0.5, 0.85),
    legend.title = element_blank(),
    legend.direction = "horizontal",
    legend.text = element_text(size = 14),
    legend.key.size = unit(7, 'mm'),
    legend.background = element_rect(fill = "white"),
    panel.grid.minor = element_blank(),
    panel.grid = element_blank(),
    panel.border = element_rect(fill= NA, color = "white"),
    plot.background = element_rect(fill = "white"),
    panel.background = element_rect(fill = "white"),
    axis.title.x = element_text(face="bold", size = 13, vjust = 19),
    plot.title = element_blank(),
    axis.title.y = element_text(size = 14, color = "black"),
    axis.text.x = element_blank(),
    axis.ticks = element_blank(),
    axis.text.y = element_text(size = 14, color = "black"),
    strip.text = element_text(size = 14, color = "black"),
    strip.background = element_rect(color = "white", fill = "white"))

#p_combined_A

```

## Figure S5B Code

```
dgender_plot <- d0_w_encouragement |>
  select(gender_feedback, female) |>
  group_by(gender_feedback, female) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(female == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(gender_feedback==0 ~ coef(summary(r1))[, "Std. Error"][1]*100,
                        TRUE ~ coef(robust_summary(r1))[, "Std. Error"][2]*100)) |>
  mutate(gender_feedback = case_when(gender_feedback==1 ~ "\"Treatment\"",
                                     TRUE ~ "\"Control\"")) |>
  rename(Condition = gender_feedback)

## dataframe for CEO information

dduration_plot <- d0_w_encouragement |>
  select(duration_shown, duration_pick) |>
  group_by(duration_shown, duration_pick) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(duration_pick == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(duration_shown==0 ~ coef(robust_summary(r_duration))[, "Std.
↪ Error"][1]*100,
                        TRUE ~ coef(robust_summary(r_duration))[, "Std. Error"][2]*100))
↪ |>
  mutate(duration_shown = case_when(duration_shown==1 ~ "\"Treatment\"",
                                    TRUE ~ "\"Control\"")) |>
  rename(Condition = duration_shown)

## dataframe for episodes information

deisodes_plot <- d0_w_encouragement |>
  select(episodes_shown, episodes_pick) |>
  group_by(episodes_shown, episodes_pick) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(episodes_pick == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(episodes_shown==0 ~ coef(robust_summary(r_episodes))[, "Std.
↪ Error"][1]*100,
                        TRUE ~ coef(robust_summary(r_episodes))[, "Std. Error"][2]*100))
↪ |>
  mutate(episodes_shown = case_when(episodes_shown==1 ~ "\"Treatment\"",
                                    TRUE ~ "\"Control\"")) |>
  rename(Condition = episodes_shown)

## dataframe for years information

dyears_plot <- d0_w_encouragement |>
  select(years_shown, years_pick) |>
```

```

group_by(years_shown, years_pick) |>
summarise(n = n()) |>
mutate(freq = n / sum(n)) |>
filter(years_pick == 1) |>
mutate(sd = sqrt((freq*(1-freq))/n)*100,
       se = case_when(years_shown==0 ~ coef(robust_summary(r_years))[, "Std.
       ↪ Error"][1]*100,
       TRUE ~ coef(robust_summary(r_years))[, "Std. Error"][2]*100)) |>
mutate(years_shown = case_when(years_shown==1 ~ "\"Treatment\"",
       TRUE ~ "\"Control\"")) |>
rename(Condition = years_shown)

df_combined <- bind_rows(
  dduration_plot %>% mutate(Category = "\nOver 3\nHours"),
  dyears_plot %>% mutate(Category = "\nStarted 3\nYears Ago"),
  depisodes_plot %>% mutate(Category = "\nWith Over\n300 Episodes"),
  dgender_plot %>% mutate(Category = "\nWith Female\nHost"),
  .id = "id") %>%
mutate(Category = factor(Category, levels = c("\nOver 3\nHours", '\nStarted 3\nYears
  ↪ Ago', "\nWith Over\n300 Episodes", '\nWith Female\nHost')))

p_combined_B <- ggplot(df_combined, aes(x = Condition, y = freq*100, fill = Condition)) +
  geom_bar(stat="identity", width = 0.85, position = position_dodge(width = 0.7)) +
  geom_text(data = df_combined %>% filter(!(Category == "\nOver 3\nHours")),
    aes(label=paste0(sprintf("%.1f", freq*100),"%")),
    position=position_dodge(width=0.7), vjust=5, size = 4, color = "white")+
  geom_errorbar(aes(ymin=freq*100-se, ymax=freq*100+se), width = .1, position =
  ↪ position_dodge(width = 0.7)) +
  facet_wrap(~factor(Category, c("\nOver 3\nHours", '\nStarted 3\nYears Ago', "\nWith
  ↪ Over\n300 Episodes", '\nWith Female\nHost')), nrow = 1, strip.position = "bottom")
  ↪ +
  geom_segment(data = df_combined %>% filter(Category %in% c("\nOver 3\nHours", "\nWith
  ↪ Over\n300 Episodes", '\nWith Female\nHost') & Condition == "\"Treatment\""),
    aes(x = 1, xend = 2, y = freq*100 + se + 5, yend = freq*100 + se + 5),
    inherit.aes = FALSE) +
  geom_segment(data = df_combined %>% filter(Category %in% c('\nStarted 3\nYears Ago')
  ↪ & Condition == "\"Control\""),
    aes(x = 1, xend = 2, y = freq*100 + se + 5, yend = freq*100 + se + 5),
    inherit.aes = FALSE) +
  geom_text(data = df_combined %>% filter(Category %in% c("\nWith Over\n300 Episodes") &
  ↪ Condition == "\"Treatment\""),
    aes(x = 1.5, xend = 1.5, y = freq*100 + se + 7, yend = freq*100 + se + 7,
    ↪ label = "n.s."),
    inherit.aes = FALSE, vjust = 0) +
  geom_text(data = df_combined %>% filter(Category %in% c("\nOver 3\nHours") &
  ↪ Condition == "\"Treatment\""),
    aes(x = 1.5, xend = 1.5, y = freq*100 + se + 7, yend = freq*100 + se + 7,
    ↪ label = "*"),
    inherit.aes = FALSE, vjust = 0) +
  geom_text(data = df_combined %>% filter(Category %in% c('\nStarted 3\nYears Ago') &
  ↪ Condition == "\"Control\""),
    aes(x = 1.5, xend = 1.5, y = freq*100 + se + 5, yend = freq*100 + se + 5,
    ↪ label = "*"),

```

```

      inherit.aes = FALSE, vjust = 0) +
geom_text(data = df_combined %>% filter(Category == '\nWith Female\nHost' & Condition
  ↳ == "\"Treatment\""),
  aes(x = 1.5, xend = 1.5, y = freq*100 + se + 5, yend = freq*100 + se + 5,
  ↳ label = "***"),
  inherit.aes = FALSE, vjust = 0) +
geom_text(data = df_combined %>% filter(Category == "\nOver 3\nHours"),
  aes(label = paste0(sprintf("%.1f", freq*100), "%"),
  x = Condition, y = 40), # offset to adjust the position
  inherit.aes = FALSE, vjust = -0.5, size = 4, color = "black") +

theme_bw() +
scale_fill_manual(values = c("#990000", "#011F5B"), labels = c("No feedback", "Feedback
  ↳ provided"), "Feedback") +
scale_y_continuous(labels = function(x) paste0(x,"%"), limits = c(0,110)) +
scale_x_discrete(labels = c("\"Control\"" = "Not\nShown", "\"Treatment\"" = "Shown")) +
labs(x = "Feedback on % of podcasts...", y = "% of New Podcasts with the Target
  ↳ Attribute",
  caption = 'Note: Error Bars are SEs', title = "The Effect of Getting Feedback on
  ↳ Your Panel's Composition") +
theme(plot.caption = element_text(face = "italic"),
  legend.position = c(0.5, 0.85),
  legend.title = element_blank(),
  legend.direction = "horizontal",
  legend.text = element_text(size = 12),
  legend.key.size = unit(7, 'mm'),
  legend.background = element_rect(fill = "white"),
  panel.grid.minor = element_blank(),
  panel.grid = element_blank(),
  panel.border = element_rect(fill= NA, color = "white"),
  plot.background = element_rect(fill = "white"),
  panel.background = element_rect(fill = "white"),
  axis.title.x = element_text(face="bold", size = 13, vjust = 19),
  plot.title = element_blank(),
  axis.title.y = element_blank(), # Remove y-axis title
  axis.text.x = element_blank(),
  axis.ticks = element_blank(),
  axis.text.y = element_blank(), # Remove y-axis text
  axis.ticks.y = element_blank(), # Remove y-axis ticks
  strip.text = element_text(size = 12, color = "black"),
  strip.background = element_rect(color = "white", fill = "white"))

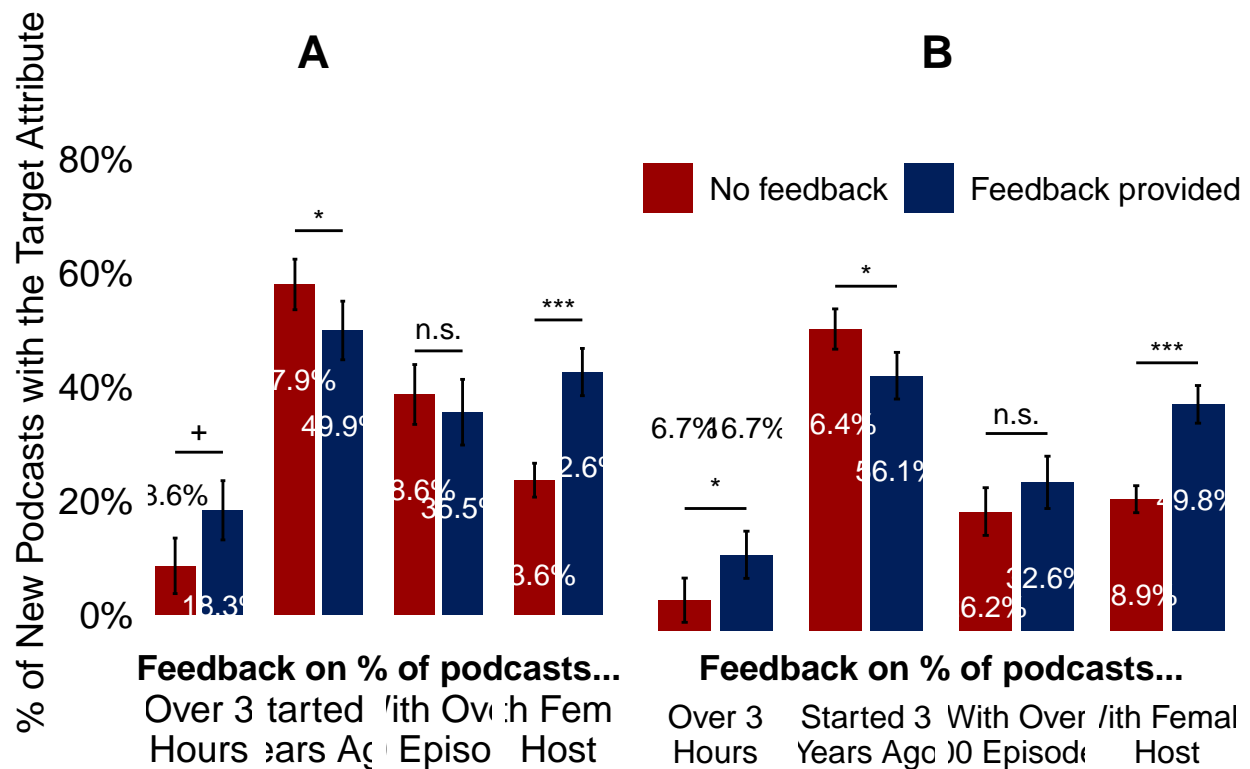
#p_combined_B
# Create separate plots for the labels
label_A <- ggplot() +
  annotate("text", x = 0, y = 0, label = "A", size = 6, fontface = "bold") +
  theme_void()

label_B <- ggplot() +
  annotate("text", x = 0, y = 0, label = "B", size = 6, fontface = "bold") +
  theme_void()

# Combine the main plots and labels using grid.arrange()

```

```
combined_plot <- grid.arrange(
  arrangeGrob(label_A, p_combined_A, ncol = 1, heights = c(0.1, 1)),
  arrangeGrob(label_B, p_combined_B, ncol = 1, heights = c(0.1, 1)),
  ncol = 2
)
```



Note: Error Bars are SEs

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```
ggsave("../Supplemental_Figures/Figure-S5.pdf", combined_plot, width = 16, height = 7,
  units = "in", device = cairo_pdf, family = "Times New Roman")
```