

DH_Midterm

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# cleaning the Cushman data
cushman_66.67_cleaned <- cushman_metadata_1966_67 %>%
  select("IU Archives Number", Year, "State/Province")

#renaming data columns
cushman_66.67_cleaned_rm <- cushman_66.67_cleaned %>%
  dplyr::rename('Archive_Num' = "IU Archives Number", "State" = "State/Province")
# cleaning USA long/lat data
USA_long.lat <- us_state_capitals %>%
  select(name, latitude, longitude) %>%
  dplyr::rename("State" = "name", "lat" = "latitude", "long" = "longitude")

# merging Cushman and USA data
Cushman_66.67_data <- inner_join(cushman_66.67_cleaned_rm,
                                USA_long.lat, by = join_by("State")) %>% na.omit()

# creating plot
plot <-
  ggplot(Cushman_66.67_data) +
  geom_bar(aes(x = State, fill = State)) +
  ylab("Photographs Cushman took in a State, \n from 1966-67") +
  ggtitle("Tracking Cushman's Activity by State") +
  coord_polar(theta = "x")

# altering plot
plot_g <- plot +
  annotate(
    x = 5,
    y = 50,
    label = "25",
    geom = "text",
    color = "gray0",
    size= 2.5,
    fontface="italic"
  ) +
  annotate(
    x = 5,
    y = 75,
    label = "50",
    geom = "text",
    color = "gray0",
    size= 2.5,
    fontface="italic"
```

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) +
annotate(
  x = 5,
  y = 100,
  label = "75",
  geom = "text",
  color = "gray0",
  size= 2.5,
  fontface="italic"
) +
annotate(
  x = 5,
  y = 125,
  label = "100",
  geom = "text",
  color = "gray0",
  size= 2.5,
  fontface="italic"
) +
annotate(
  x = 5,
  y = 150,
  label = "125",
  geom = "text",
  color = "gray0",
  size= 2.5,
  fontface="italic"
) +
annotate(
  x = 5,
  y = 175,
  label = "150",
  size= 2.5,
  fontface="italic",
  geom = "text",
  color = "gray0"
) +
scale_y_continuous(
  limits = c(-25, 200),
  expand = c(0, 0),
  breaks = c(0, 25, 50, 75, 100, 125, 150)
) +
theme(axis.ticks.y = element_blank(),
      axis.text.y = element_blank())

#display graph
plot_g

```

Tracking Cushman's Activity by State

