Claremont Run of X-Men

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Loading libraries

Getting the data

```
#remotes::install_github("malcolmbarrett/claremontrun")
tuesdata <- tidytuesdayR::tt_load(2020, week = 27)
```

```
## --- Compiling #TidyTuesday Information for 2020-06-30 ----
```

```
## --- There are 7 files available ---
```

```
## --- Starting Download ---
```

```
##
##  Downloading file 1 of 7: `character_visualization.csv`
##  Downloading file 2 of 7: `characters.csv`
##  Downloading file 3 of 7: `comic_bechdel.csv`
##  Downloading file 4 of 7: `covers.csv`
##  Downloading file 5 of 7: `issue_collaborators.csv`
##  Downloading file 6 of 7: `locations.csv`
##  Downloading file 7 of 7: `xmen_bechdel.csv`
```

```
## --- Download complete ---
```

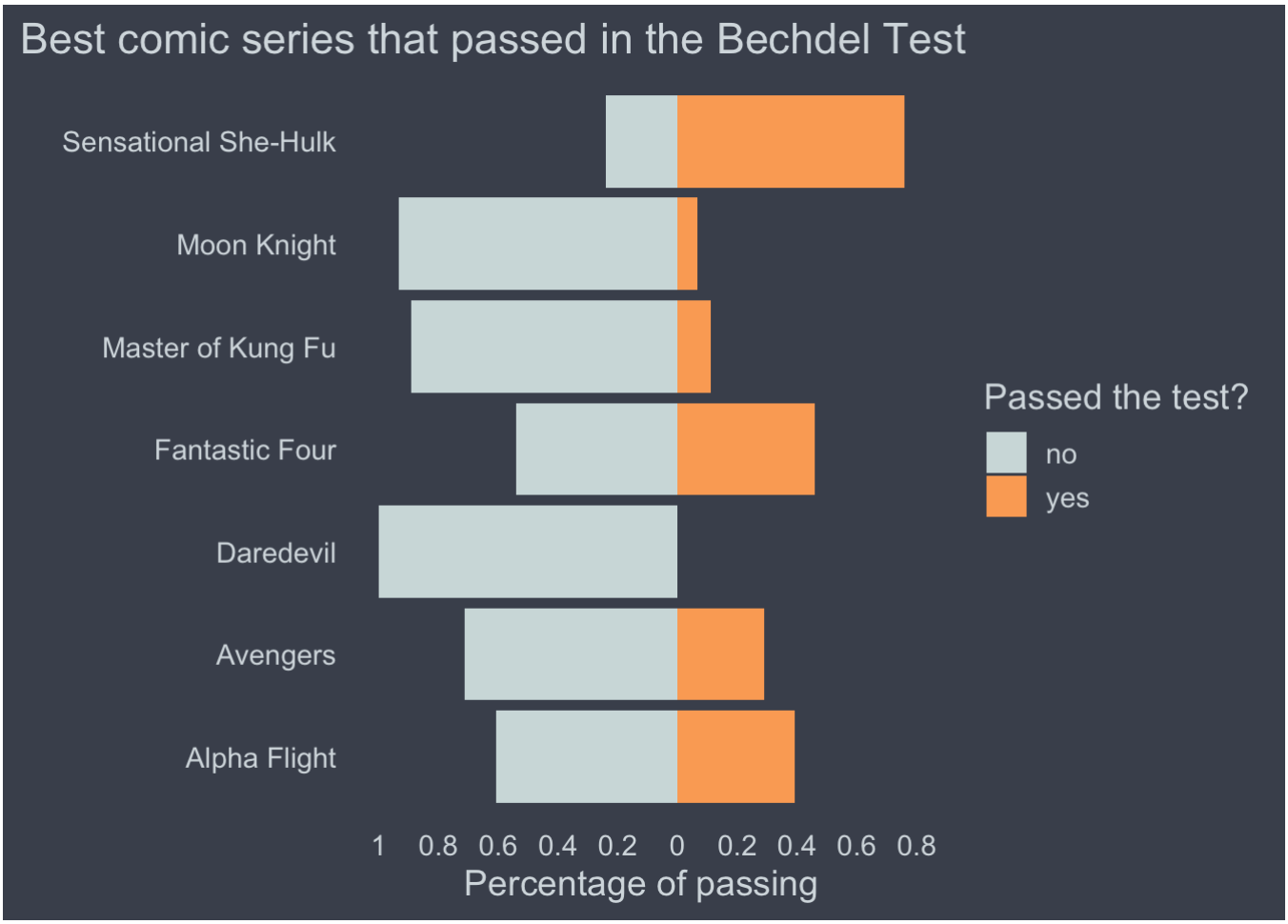
```
comic_bechdel <- tuesdata$comic_bechdel
characters <- tuesdata$characters
characters_vis <- tuesdata$character_visualization
covers <- tuesdata$covers
issue_collab <- tuesdata$issue_collaborators
locations <- tuesdata$locations
xmen_bechdel <- tuesdata$xmen_bechdel
```

Analyzing the Comic Bechdel test

```
bechdel_by_series <- comic_bechdel %>%
  filter(!is.na(pass_bechdel)) %>%
  group_by(series, pass_bechdel) %>%
  summarise(n = n()) %>%
  mutate(pct_pass = n / sum(n),
         pct_pass = ifelse(pass_bechdel == "no", pct_pass * -1, pct_pass))
```

```
## `summarise()` regrouping output by 'series' (override with `.groups` argument)
```

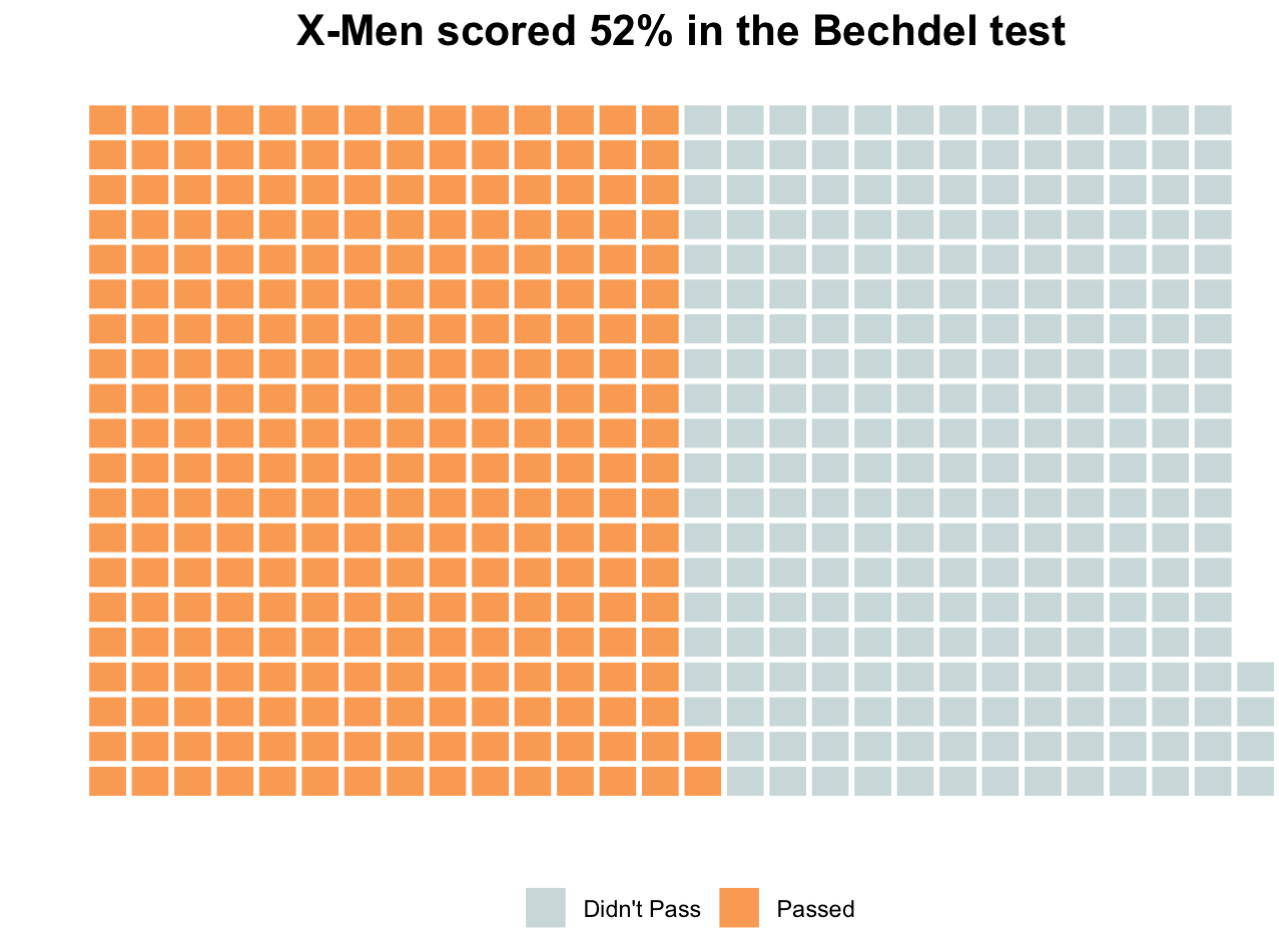
```
bechdel_by_series %>%
  ggplot(aes(pct_pass, series, fill = pass_bechdel)) +
  geom_bar(stat = "identity") +
  theme_hermit() +
  scale_fill_manual(values = c("#D1DEDE", "#FCAB64")) +
  scale_x_continuous(breaks = seq(-1, 1, by = .2),
                     labels = c(seq(1, 0, by = -.2), seq(.2, 1, by = .2))) +
  labs(title = "Best comic series that passed in the Bechdel Test",
     x = "Percentage of passing",
     y = "",
     fill = "Passed the test?")
```



Checking the proportion of Bechdel test X-Men passed

```
parts <- xmen_bechdel %>%
  filter(!is.na(pass_bechdel)) %>%
  count(pass_bechdel, sort = TRUE) %>%
  mutate(pass_bechdel = str_replace(pass_bechdel, "yes", "Passed"),
         pass_bechdel = str_replace(pass_bechdel, "no", "Didn't Pass"))

ggplot(parts, aes(fill = pass_bechdel, values = n)) +
  geom_waffle(color = "white", n_rows = 20, size = 1) +
  theme_minimal() +
  scale_fill_manual(values = c("#D1DEDE", "#FCAB64")) +
  theme(panel.grid = element_blank(),
        axis.text = element_blank(),
        legend.position = "bottom",
        legend.title = element_blank(),
        plot.title = element_text(size = 16, face = "bold", hjust = 0.5)) +
  labs(title = "X-Men scored 52% in the Bechdel test")
```



Analyzing characters

```
characters_sum <- characters %>%
  left_join(y = locations, by = "issue") %>%
  separate(character, into = c("character", "original_name"), sep = " = ") %>%
  separate(location, into = c("place", "city"), sep = ", ") %>%
  group_by(issue, character, place, context) %>%
  summarise(across(where(is.numeric), ~sum(.x, na.rm = TRUE))) %>%
  mutate(context = str_remove_all(context, "\\*")) %>%
  mutate(context = str_to_title(context)) %>%
  filter(!context %in% c("Unknown Time", "Unspecified Time", NA),
         number_of_kills_non_humans < 1000000)
```

```
## Warning: Expected 2 pieces. Missing pieces filled with `NA` in 2826 rows [1,
## 2, 3, 4, 5, 91, 92, 93, 94, 95, 116, 117, 118, 119, 120, 206, 207, 208, 209,
## 210, ...].
```

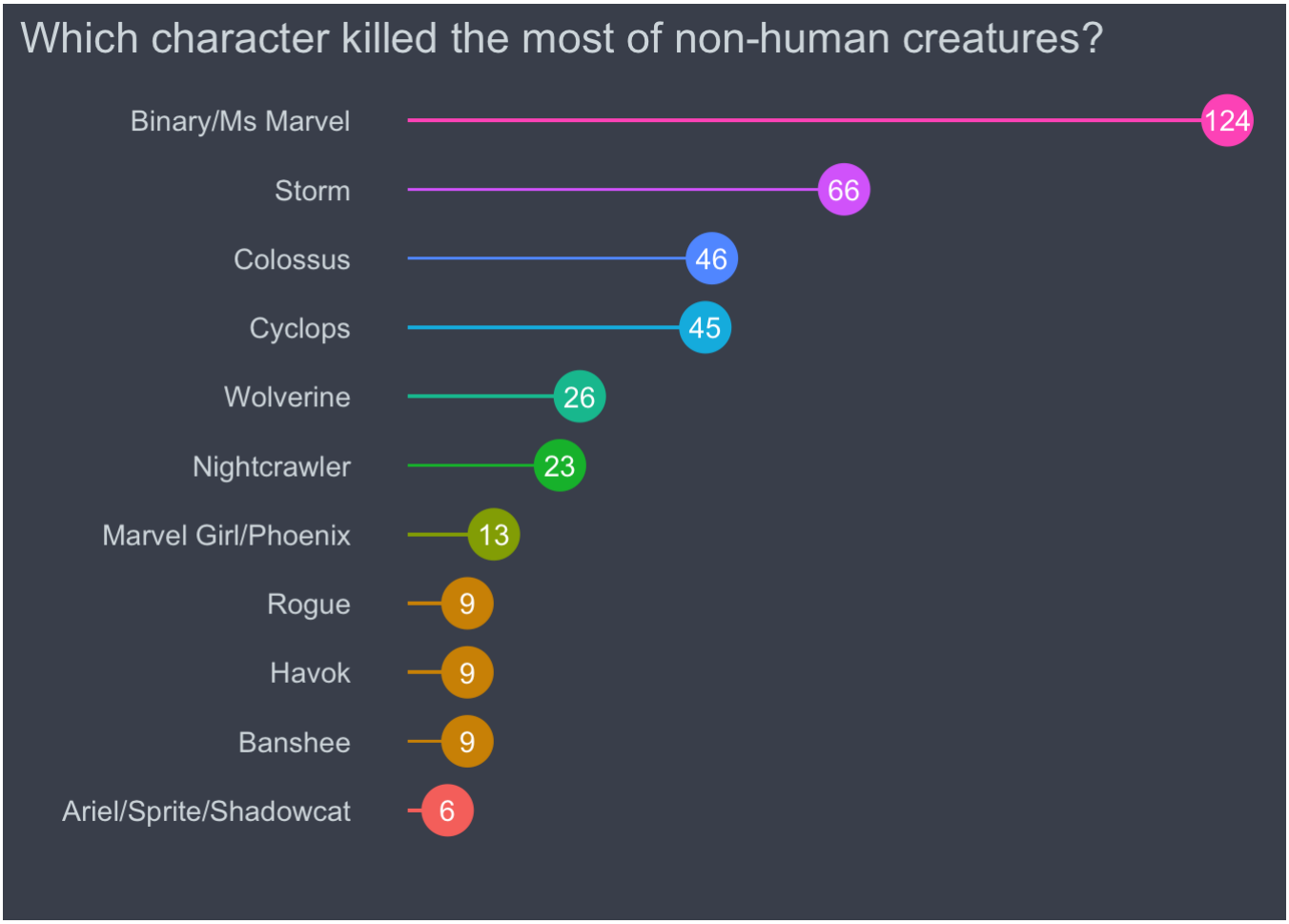
```
## Warning: Expected 2 pieces. Additional pieces discarded in 4876 rows [1137,
## 1147, 1157, 1167, 1177, 1187, 1197, 1207, 1217, 1227, 1237, 1247, 1257, 1267,
## 1277, 1287, 1297, 1307, 1317, 1327, ...].
```

```
## Warning: Expected 2 pieces. Missing pieces filled with `NA` in 15847 rows [1, 2,
## 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, ...].
```

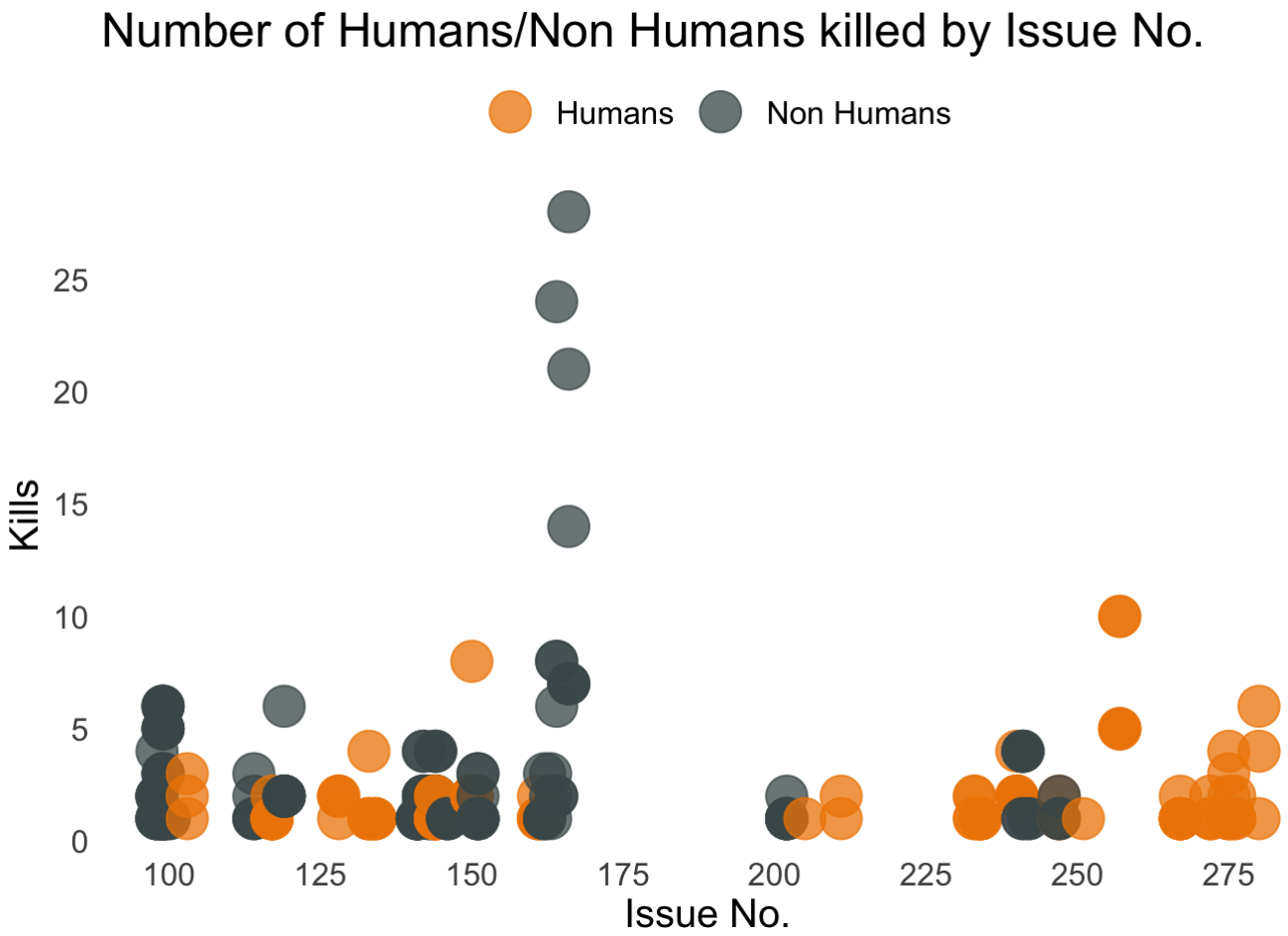
```
## `summarise()` regrouping output by 'issue', 'character', 'place' (override with `.
groups` argument)
```

```
characters_sum %>%
  filter(number_of_kills_non_humans > 0) %>%
  group_by(character) %>%
  summarise(across(where(is.numeric), ~sum(.x, na.rm = TRUE))) %>%
  mutate(character = fct_reorder(character, number_of_kills_non_humans)) %>%
  ggplot(aes(number_of_kills_non_humans, character)) +
  geom_point(aes(color = factor(number_of_kills_non_humans)), size = 9) +
  geom_col(aes(fill = factor(number_of_kills_non_humans)), width = 0.05) +
  geom_text(aes(label = number_of_kills_non_humans), color = "white", size = 4, posit
ion = position_dodge(0.5)) +
  theme_hermit() +
  theme(legend.position = "none",
        axis.text.x = element_blank()) +
  labs(title = "Which character killed the most of non-human creatures?",
       x = "",
       y = "")
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```




```
characters_sum %>%
  ungroup() %>%
  select(issue, character, number_of_kills_humans, number_of_kills_non_humans) %>%
  pivot_longer(-c(issue, character), names_to = "names", values_to = "values") %>%
  mutate(names = str_remove(names, "number_of_kills_"),
         names = str_replace(names, "_", " "),
         names = str_to_title(names)) %>%
  filter(values > 0) %>%
  ggplot(aes(issue, values, color = names)) +
  geom_point(size = 7, alpha = 0.75) +
  scale_x_continuous(breaks = seq(100, 275, by = 25)) +
  scale_y_continuous(breaks = seq(0, 30, by = 5)) +
  theme_minimal() +
  theme(panel.grid = element_blank(),
        legend.position = "top",
        legend.title = element_blank(),
        text = element_text(size = 15)) +
  labs(title = "Number of Humans/Non Humans killed by Issue No.",
       x = "Issue No.",
       y = "Kills") +
  scale_color_manual(values = c("#F08700", "#4A5759"))
```


Number of Humans/Non Humans killed by Issue No.
Humans
Non Humans
Kills
25
20
15
10
5
0
100
125
150
175
200
225
250
275
Issue No.