

Movie Night Voting Tabulation

Setup

```
setwd('~/.Personal/IRV/ranking/')
library(tidyverse)
devtools::load_all('~/.MyProjects/AfterSlip/')
theme_set(theme_bw())

cols = c('#878787', '#FDDBC7', '#B2182B')
ranklevs = c('I would NOT come to watch this film',
             'I do not love this film but would still show up',
             'I would REALLY LIKE to watch this film')
make_rank = function(x){
  x = factor(x, levels = ranklevs)
  x = as.numeric(x) - 2
  return(x)
}
```

Import and Clean Data

```
dat = read.csv('data/current_week.csv', stringsAsFactors = FALSE, header = FALSE)
datm = as.matrix(dat[, -1])

tdf = read.csv('data/current_movies.csv', row.names = 1, header = FALSE,
              stringsAsFactors = FALSE)
titles = tdf[[1]]
names(titles) = rownames(tdf)

datm[datm %in% names(titles)] = titles[datm[datm %in% names(titles)]]

colnames(datm) = datm[1,]
datm = datm[-1,]
```

Tabulate the results

```
dat_num = (datm
  %>% data.frame()
  %>% mutate_all(make_rank))
dat_long = (datm
  %>% data.frame()
  %>% gather(Movies, Votes)
  %>% mutate(Votes = factor(Votes, levels = ranklevs)))

results = sort(colSums(dat_num), decreasing = TRUE)
results
print('The winner is:')
print(names(results)[1])
```

```
## RomyAndMichele  LegallyBlonde      Tremors      Clueless      RED
```

```
##           8           7           5           5
##       Babe2   Beetlejuice   Twister
##           3           2           2
## [1] "The winner is:"
## [1] "RomyAndMichele"
```

Pics or it didn't happen

```
dat_long$Movies = factor(dat_long$Movies, levels = names(results))
plt = ggplot(dat_long, aes(x = Movies, fill = Votes)) +
  geom_histogram(stat = 'count') +
  scale_fill_manual(values = cols) +
  rotate_ticks()
plt
```

