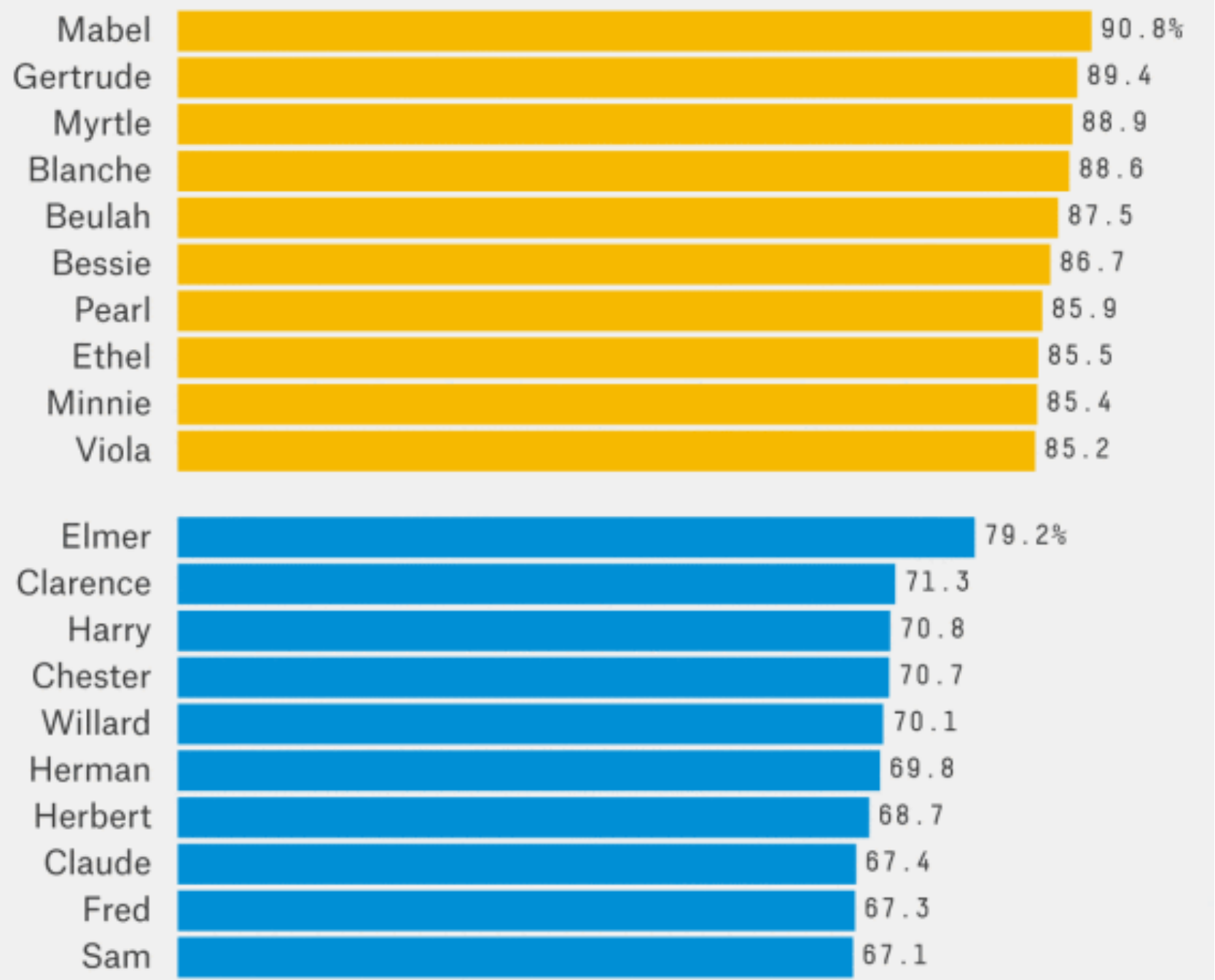


Polishing Graphics

Deadest Names

Estimated percentage of Americans with a given name born since 1900 who were dead as of Jan. 1, 2014



Goals

- bar chart for names
- faceting and fill by sex
- flip the axes
- text giving the percentages

Changing scales

Recipe: `scale_<aes>_<method>`

Examples:

- `scale_fill_manual`
- `scale_fill_brewer`
- `scale_color_viridis`
- `scale_shape_manual`

Changing themes

Loading ggthemes allows you to access numerous prebuilt themes

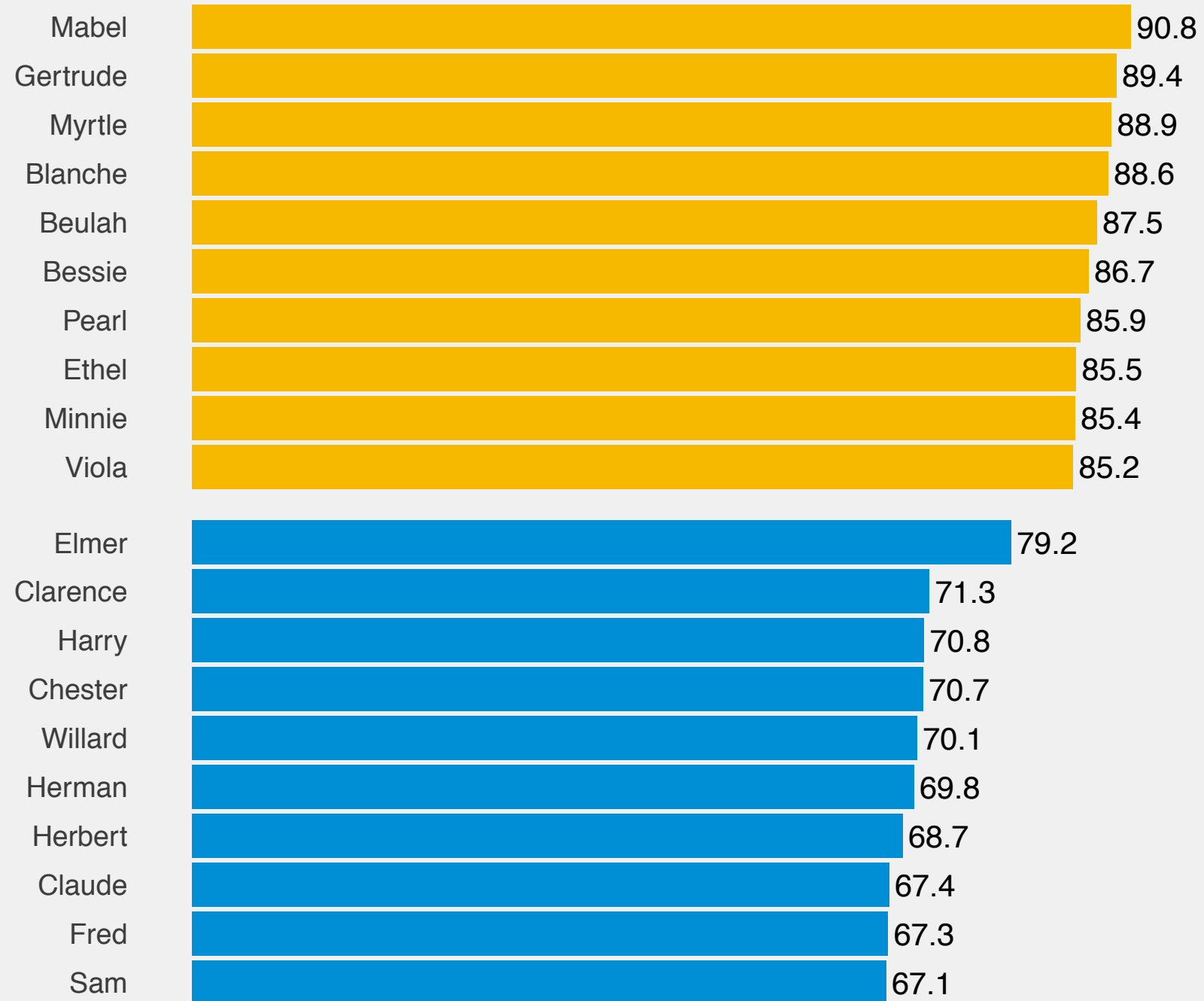
- `theme_ws()`
- `theme_few()`
- `theme_hc()`
- `theme_gdocs()`

Custom themes

- `theme()` function allows us to fine tune every aspect of our plot canvas
- A LOT of decisions (run `?theme` to see more)
- A LOT of control

Deadeast Names

Estimated percentage of Americans with a given name born since 1900 who were dead as of Jan. 1, 2014



```
dnplot2 +  
  theme_fivethirtyeight() +  
  theme(legend.position = "none",  
        panel.grid = element_blank(),  
        strip.text = element_blank(),  
        axis.text.x = element_blank()  
  )
```

Mini project

Assignment

1. You will work with a partner to write a short blog post that contains (at least) one data graphic. Your goal is to tell the class something interesting using a well-crafted, thoughtfully-prepared data graphic. One data graphic should suffice, but you may include more if you choose.
2. Give a lightning talk (~ 5 min) summarizing the main point(s) of your blog post.

Things to think about

- What point are you trying to make?
- What variable(s) is/are important to your?
- What visualization(s) will help you make that point effectively?

Data

- You can use any data set you want, but don't focus on data wrangling
- There are many well-curated data sets in R packages:
 - `nycflights13`: 2013 flights departing 3 NYC airports
 - `babynames`: history of baby names from the Social Security Administration
 - `Lahman`: comprehensive historical archive of major league baseball data
 - `fuelconomy`: fuel economy data from the EPA, 1985-2015
 - `fivethirtyeight`: provides access to data sets that drive many articles on FiveThirtyEight.

Resources

- [ggplot2 cheat sheet](#)
- [DataCamp](#)
- [Google](#)

Start brainstorming!