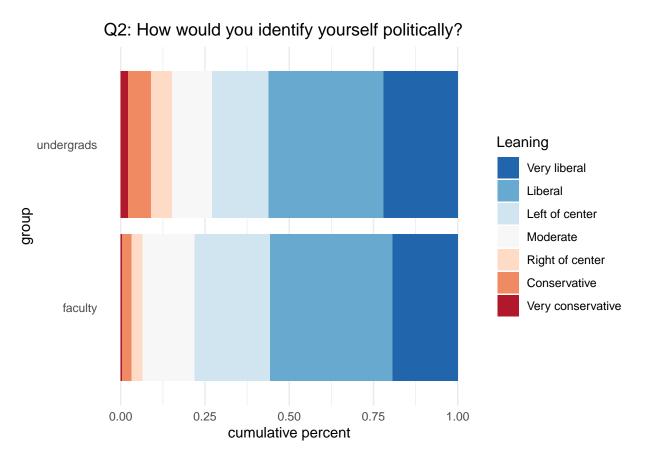
Political leanings survey analysis

```
library(tidyverse)
## -- Attaching packages -
## v ggplot2 3.3.0
                     v purrr
                                0.3.3
                                0.8.4
## v tibble 2.1.3
                      v dplyr
## v tidyr
           1.0.2
                    v stringr 1.4.0
            1.3.1
## v readr
                     v forcats 0.5.0
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
library(knitr)
```

Q2 Leanings:

```
names <- c("Very conservative",</pre>
            "Conservative",
            "Right of center",
            "Moderate",
            "Left of center",
            "Liberal",
            "Very liberal")
undergrads <- c(31, 96, 90, 167, 238, 484, 312)
faculty \leftarrow c(1, 8, 9, 43, 62, 101, 54)
q2 <- data.frame(
    leaning = names,
    undergrads,
    faculty
)
q2 %>%
    tidyr::pivot_longer(-leaning) %>%
    ggplot(aes(name, value, fill = leaning %% fct_relevel(names) %% fct_rev())) +
    geom_bar(stat = "identity", position = "fill") +
    coord_flip() +
    scale_fill_brewer(palette = "RdBu", direction = -1) +
    labs(x = "group", y = "cumulative percent", fill = "Leaning",
         title = "Q2: How would you identify yourself politically?") +
    theme minimal() +
    theme(panel.grid.major.y = element_blank())
```



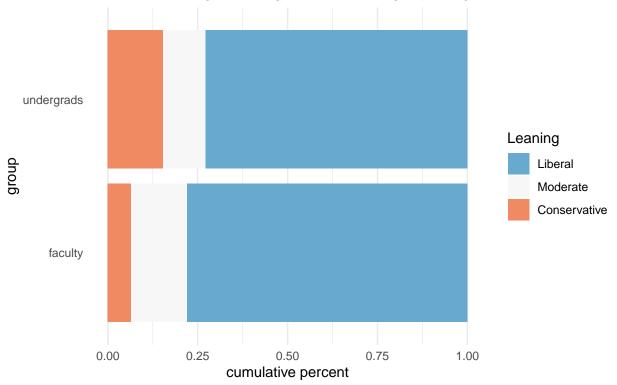
```
q2[, 2:3] %>%
    as.matrix() %>%
    t() %>%
    `colnames<-`(names) %>%
    prop.table(margin = 1) %>%
    as.data.frame.matrix() %>%
    round(4) %>%
    `*`(100) %>%
    kable()
```

	Very conservative	Conservative	Right of center	Moderate	Left of center	Liberal	Very liberal
undergrads	2.19	6.77	$6.35 \\ 3.24$	11.78	16.78	34.13	22.00
faculty	0.36	2.88		15.47	22.30	36.33	19.42

coord_flip() +

Q2: How would you identify yourself politically?





```
q2_sum[, 2:3] %>%
    as.matrix() %>%
    t() %>%
    `colnames<-`(c("Conservative", "Moderate", "Liberal")) %>%
    prop.table(margin = 1) %>%
    as.data.frame.matrix() %>%
    round(4) %>%
    `*`(100) %>%
    kable()
```

	Conservative	Moderate	Liberal
undergrads	15.30	72.92	11.78
faculty	6.47	78.06	15.47

Q7 Choice of academic field:

```
names <- c("To an extremely large extent",</pre>
           "To a large extent",
           "To a moderate extent",
           "To a small extent",
           "To no or a very minimal extent")
undergrads <- c(112, 202, 278, 292, 539)
faculty \leftarrow c(5, 32, 32, 42, 169)
q7 <- data.frame(
   response = names,
   undergrads,
   faculty
)
q7 %>%
   tidyr::pivot_longer(-response) %>%
   group_by(name) %>%
   mutate(percent = value / sum(value),
           percent = paste0(round(100 * percent), "%")) %>%
   ggplot(aes(name, value)) +
   geom_bar(aes(fill = response %% fct_relevel(names) %% fct_rev()), stat = "identity", position = "
   ggrepel::geom_label_repel(aes(label = percent), position = "fill", point.padding = NA) +
   coord_flip() +
   scale_fill_brewer() +
   labs(x = "group", y = "cumulative percent", fill = "Response",
        title = "Q7/To what extent have your political beliefs influenced your choice of field?") +
   theme_minimal() +
   theme(panel.grid.major.y = element_blank())
```

