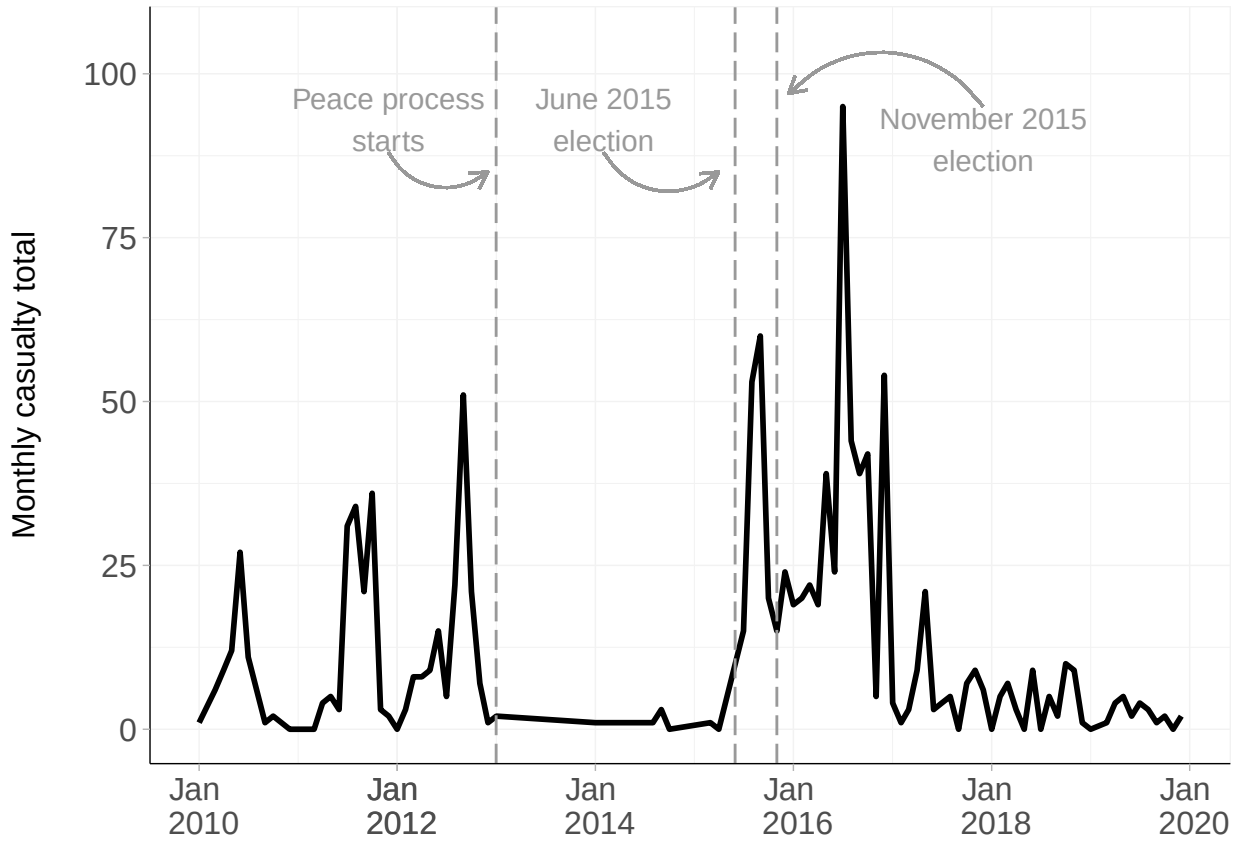
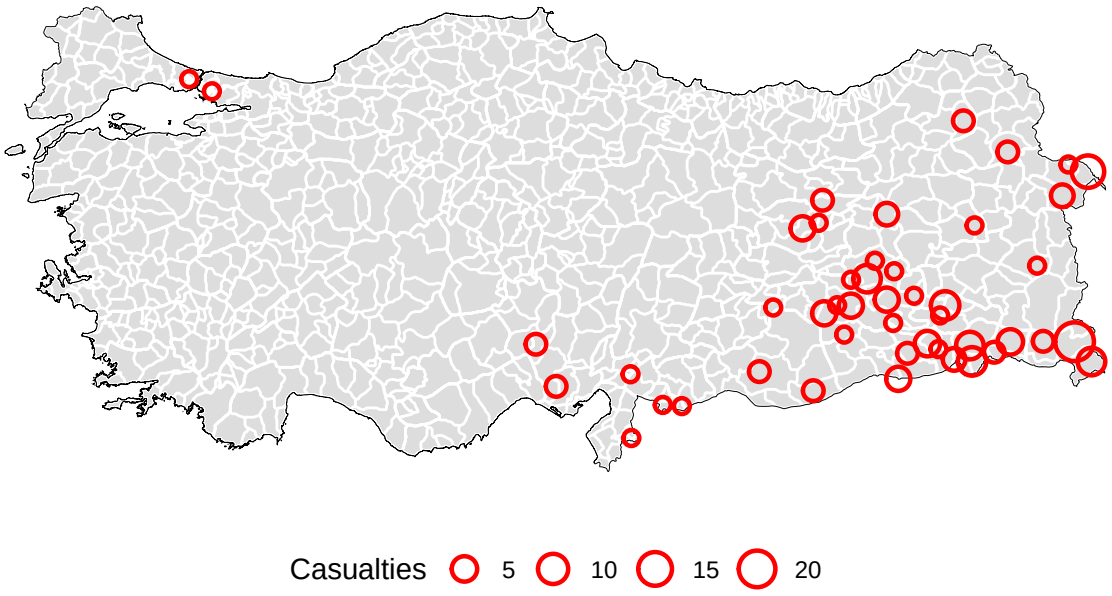
```
source("analysis.R", echo = TRUE, max.deparse.length = Inf)
```

```
##
## > Sys.setlocale(category = "LC_ALL", locale = "English_United Kingdom.1252")
## [1] "LC_COLLATE=English_United Kingdom.1252;LC_CTYPE=English_United Kingdom.1252;LC_MONETARY=English_
##
## > library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##     filter, lag
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
##
## > library(tidyr)
##
## > library(ggplot2)
##
## > library(sf)
## Linking to GEOS 3.8.0, GDAL 3.0.4, PROJ 6.3.1
##
## > library(ebal)
## ##
## ## ebal Package: Implements Entropy Balancing.
## ## See http://www.stanford.edu/~jhain/ for additional information.
##
## > library(kableExtra)
## Warning: package 'kableExtra' was built under R version 4.0.4
##
## Attaching package: 'kableExtra'
## The following object is masked from 'package:dplyr':
##
##     group_rows
##
## > source("scripts/script_figure_1.R", echo = TRUE, max.deparse.length = Inf)
##
## > figure_1 <- read.csv("datasets/data_ucdp.csv") %>%
## +     filter(country == "Turkey" & between(year, 2010, 2020) &
## +         side_a == "Government of Turkey") %>% mutate(date_start = as.Date(date_start),
## +     months = as.Date(cut(date_start, breaks = "month"))) %>%
## +     group_by(months) %>% summarise(casualties = sum(deaths_a)) %>%
## +     ggplot(aes(x = months, y = casualties)) + geom_line(size = 1,
## +     stat = "identity") + geom_vline(xintercept = as.Date(c("2012-12-31",
## +     "2015-05-31", "2015-11-01")), colour = "gray60", linetype = "longdash") +
## +     geom_curve(aes(x = as.Date("2011-11-30"), y = 88, xend = as.Date("2012-11-30"),
```

```
## +         yend = 85), color = "gray60", arrow = arrow(length = unit(0.25,
## +         "cm"))) + geom_curve(aes(x = as.Date("2014-01-31"), y = 88,
## +     xend = as.Date("2015-03-31"), yend = 85), color = "gray60",
## +     arrow = arrow(length = unit(0.25, "cm"))) + geom_curve(aes(x = as.Date("2017-12-01"),
## +     y = 95, xend = as.Date("2015-12-15"), yend = 97), color = "gray60",
## +     arrow = arrow(length = unit(0.25, "cm"))) + annotate("text",
## +     x = as.Date("2011-11-30"), y = 93, label = "Peace process\nstarts",
## +     colour = "gray60") + annotate("text", x = as.Date("2014-01-31"),
## +     y = 93, label = "June 2015\nelection", colour = "gray60") +
## +     annotate("text", x = as.Date("2017-12-01"), y = 90, label = "November 2015\nelection",
## +         colour = "gray60") + theme_light() + theme(axis.line = element_line(colour = "black",
## +     size = 0.25), panel.grid.major = element_line(colour = "grey95",
## +     size = 0.25), panel.grid.minor = element_line(colour = "grey95",
## +     size = 0.125), panel.border = element_rect(fill = NA, colour = "grey95",
## +     size = 0.25), axis.text = element_text(size = 12), axis.title = element_text(size = 12)) +
## +     labs(x = NULL, y = "Monthly casualty total\n") + scale_x_date(breaks = c(as.Date("2010-01-01")
## +     as.Date("2012-01-01"), as.Date("2012-01-01"), as.Date("2014-01-01"),
## +     as.Date("2016-01-01"), as.Date("2018-01-01"), as.Date("2020-01-01")),
## +     date_labels = "%b \n %Y") + scale_y_continuous(limits = c(0,
## +     105))
## `summarise()` ungrouping output (override with `.groups` argument)
##
## > print(figure_1)
##
## > ggsave(plot = figure_1, filename = "figures/figure_1.pdf",
## +     dpi = 1000, width = 8.5, height = 6, units = "in")
```

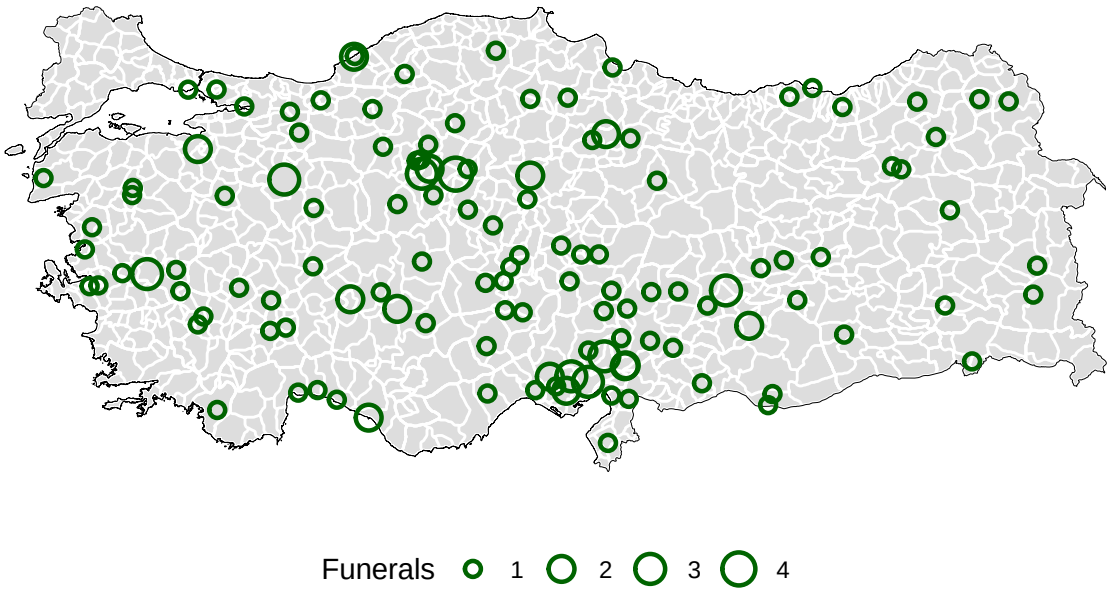



```
##
## > source("scripts/script_figure_2.R", echo = TRUE, max.deparse.length = Inf)
##
## > df_fdc <- read.csv("datasets/data_fdc.csv")
##
## > tr_map <- readRDS("datasets/data_map.RDS")
##
## > figure_2 <- tr_map + geom_point(data = subset(df_fdc,
## +     casualties > 0), aes(x = longitude, y = latitude, size = casualties),
## +     color = "red", shape = 1, stroke = 1.2) + coord_sf() + labs(x = NULL,
## +     y = NULL) + theme_minimal() + theme(panel.grid = element_blank(),
## +     axis.text = element_blank(), legend.position = "bottom") +
## +     scale_size_continuous(name = "Casualties", range = c(2, 6))
##
## > print(figure_2)

##
## > ggsave(plot = figure_2, filename = "figures/figure_2.pdf",
## +     dpi = 1000, width = 9, height = 4, units = "in")
```



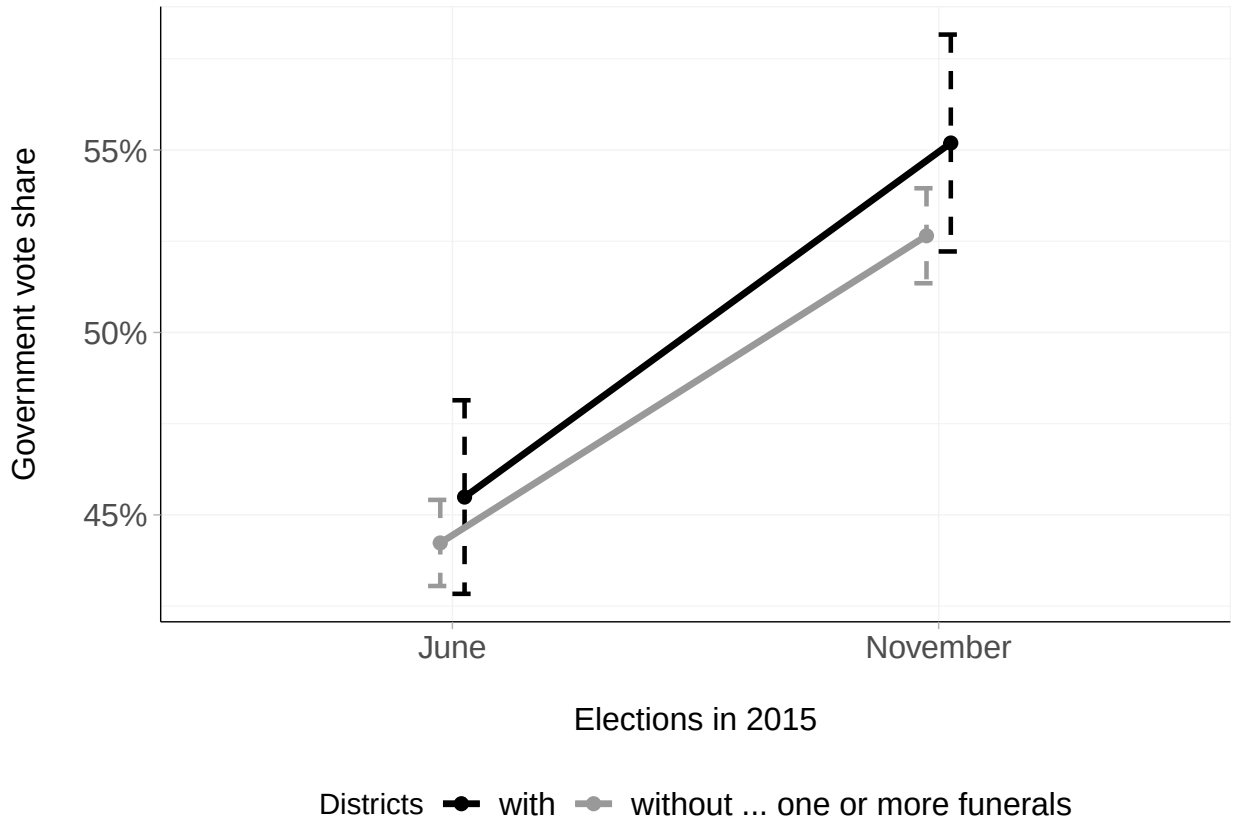

```
##
## > source("scripts/script_figure_3.R", echo = TRUE, max.deparse.length = Inf)
##
## > df_fdc <- read.csv("datasets/data_fdc.csv")
##
## > tr_map <- readRDS("datasets/data_map.RDS")
##
## > figure_3 <- tr_map + geom_point(data = subset(df_fdc,
## +     coffins > 0), aes(x = longitude, y = latitude, size = coffins),
## +     color = "darkgreen", shape = 1, stroke = 1.2) + coord_sf() +
## +     labs(x = NULL, y = NULL) + theme_minimal() + theme(panel.grid = element_blank(),
## +     axis.text = element_blank(), legend.position = "bottom") +
## +     scale_size_continuous(name = "Funerals", range = c(2, 5))
##
## > print(figure_3)

##
## > ggsave(plot = figure_3, filename = "figures/figure_3.pdf",
## +     dpi = 1000, width = 9, height = 4, units = "in")

##
## > source("scripts/script_figure_4.R", echo = TRUE, max.deparse.length = Inf)
##
## > lower_ci <- function(mean, se, n, conf_level = 0.95) {
## +     lower_ci <- mean - qt(1 - ((1 - conf_level)/2), n - 1) *
## +         se
## + }
```

```
##
## > upper_ci <- function(mean, se, n, conf_level = 0.95) {
## +     upper_ci <- mean + qt(1 - ((1 - conf_level)/2), n - 1) *
## +         se
## + }
##
## > figure_4 <- read.csv("datasets/data_fdc.csv") %>%
## +     mutate(coffins_binary = if_else(coffins > 0, 1, 0)) %>% select(coffins_binary,
## +     akp_nov, akp_jun) %>% pivot_longer(names_to = "election",
## +     values_to = "vote_share", cols = akp_nov:akp_jun) %>% group_by(election,
## +     coffins_binary) %>% summarise(smean = mean(vote_share, na.rm = TRUE),
## +     ssd = sd(vote_share, na.rm = TRUE), count = n()) %>% mutate(se = ssd/sqrt(count),
## +     lower_ci = lower_ci(smean, se, count), upper_ci = upper_ci(smean,
## +         se, count)) %>% ggplot(aes(x = election, y = smean, colour = factor(coffins_binary),
## +     group = factor(coffins_binary))) + geom_errorbar(aes(ymin = lower_ci,
## +     ymax = upper_ci), width = 0.1, position = position_dodge(0.1),
## +     linetype = "dashed", size = 0.8) + geom_line(position = position_dodge(0.1),
## +     size = 1.2) + geom_point(position = position_dodge(0.1),
## +     size = 2) + theme_light() + theme(axis.line = element_line(colour = "black",
## +     size = 0.25), panel.grid.major = element_line(colour = "grey95",
## +     size = 0.25), panel.grid.minor = element_line(colour = "grey95",
## +     size = 0.125), panel.border = element_rect(fill = NA, colour = "grey95",
## +     size = 0.25), axis.text = element_text(size = 12), axis.title = element_text(size = 12),
## +     legend.text = element_text(size = 12), legend.position = "bottom") +
## +     labs(x = "\nElections in 2015", y = "Government vote share\n") +
## +     scale_x_discrete(breaks = c("akp_jun", "akp_nov"), labels = c("June",
## +         "November")) + scale_y_continuous(labels = function(x) paste0(x,
## +     "%")) + scale_colour_manual(name = "Districts", values = c("black",
## +     "gray60"), breaks = c(1, 0), labels = c("with", "without ... one or more funerals"))
## `summarise()` regrouping output by 'election' (override with `.groups` argument)
```



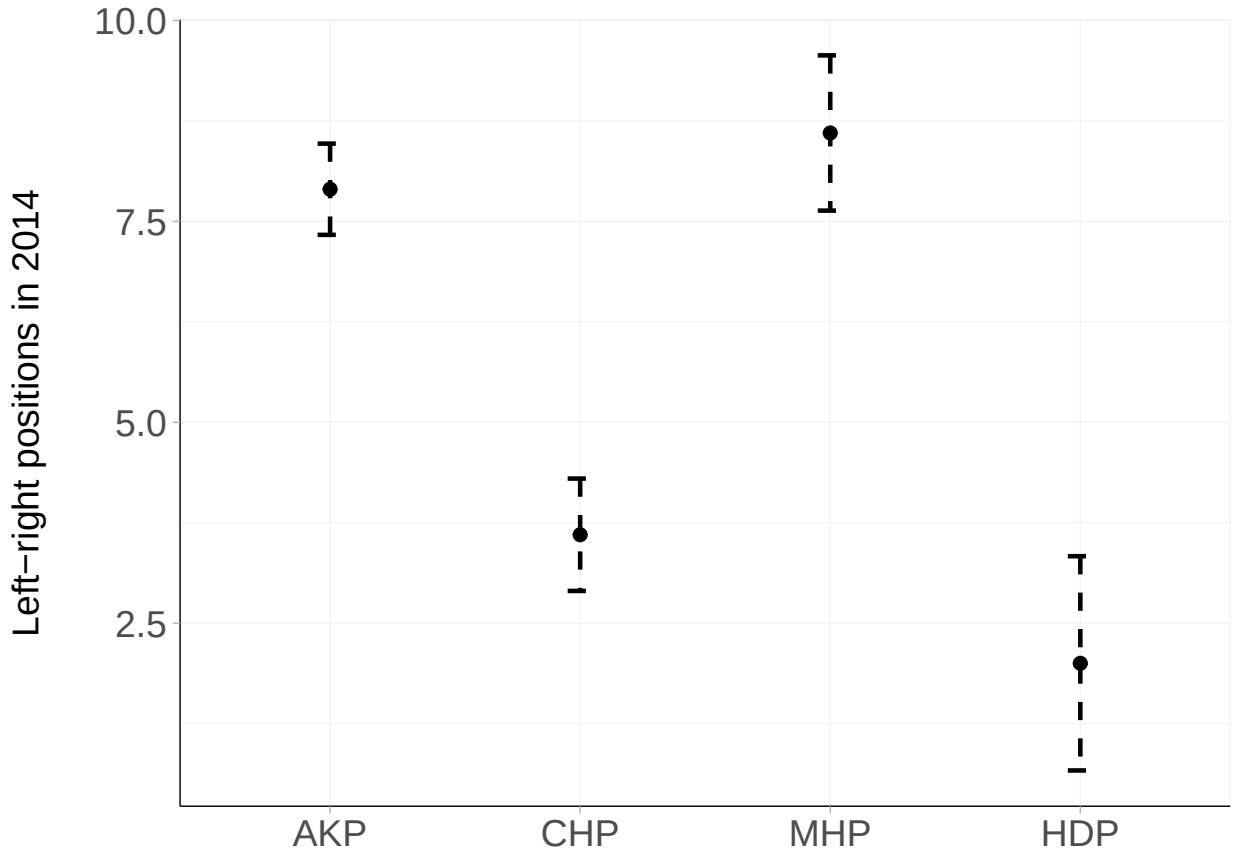

```
##
## > print(figure_4)
```

```
##
## > ggsave(plot = figure_4, filename = "figures/figure_4.pdf",
## +     dpi = 1000, width = 8.5, height = 6, units = "in")
```

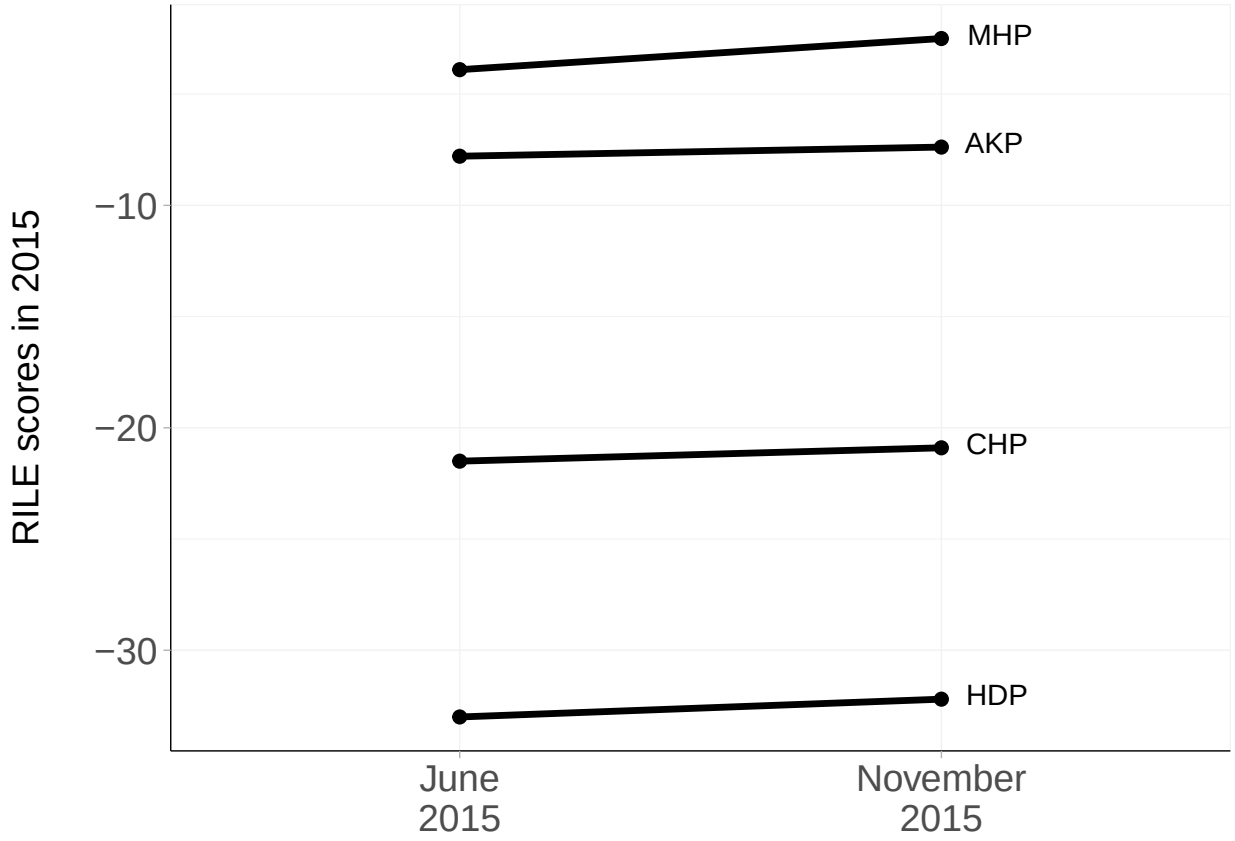



```
##
## > source("scripts/script_table_s4.R", echo = TRUE, max.deparse.length = Inf)
##
## > df_fdc <- read.csv("datasets/data_fdc.csv")
##
## > treatment <- df_fdc$treatment
##
## > ivs <- cbind(df_fdc$recruitment_pool, df_fdc$treatment_nonterror,
## +     df_fdc$casualty_district, df_fdc$kurdish_district, df_fdc$akp_district,
## +     df_fdc$higher_education, df_fdc$min_margin, df_fdc$turnout_jun)
##
## > eb_out <- ebalance(Treatment = treatment, X = ivs)
## Converged within tolerance
##
## > df_table <- data.frame(variables = c("Recruitment Pool",
## +     "Non-terror Funeral", "Attack District", "Kurdish District",
## +     "AKP District", "Higher Education", "Electoral Margin", "Turnout"),
## +     treatment_bm = apply(ivs[treatment == 1, ], 2, mean), control_bm = apply(ivs[treatment ==
## +         0, ], 2, mean), treatment_am = apply(ivs[treatment ==
## +         1, ], 2, mean), control_am = apply(ivs[treatment == 0,
## +         ], 2, weighted.mean, w = eb_out$w))
##
## > kbl(df_table, digits = 2, format = "pipe", caption = "Treatment and control means, before and afte
## +     col.names = c("", "Treatment (Before)", "Control (Before)",
## +         "Treatment (After)", "Control (After)"))
##
```

```
##
## Table: Treatment and control means, before and after entropy balancing
##
## |                   | Treatment (Before)| Control (Before)| Treatment (After)| Control (After)|
## |:------------------|------------------:|----------------:|-----------------:|---------------:|
## |Recruitment Pool   |              13.17|             5.61|             13.17|           13.17|
## |Non-terror Funeral |               0.10|             0.03|              0.10|            0.10|
## |Attack District    |               0.04|             0.05|              0.04|            0.04|
## |Kurdish District   |               0.15|             0.19|              0.15|            0.15|
## |AKP District       |               0.65|             0.63|              0.65|            0.65|
## |Higher Education   |               8.42|             7.10|              8.42|            8.42|
## |Electoral Margin   |               4.27|             4.81|              4.27|            4.27|
## |Turnout            |              85.63|            85.58|             85.63|           85.63|
##
## > kbl(df_table, format = "latex", booktabs = TRUE, linesep = "",
## +     digits = 2, caption = "Treatment and control means, before and after entropy balancing",
## +     col.names = c("", "Treatment", "Control", "Treatment", "Control")) %>%
## +     add_header_above(c(" ", `Before Matching` = 2, `After Matching` = 2)) %>%
## +     cat(file = "tables/table_s4.tex")
##
## > source("scripts/script_figure_s1a.R", echo = TRUE,
## +     max.deparse.length = Inf)
##
## > figure_s1a <- read.csv("datasets/data_pp.csv") %>%
## +     filter(dataset == "ches") %>% mutate(party = factor(party,
## +     levels = c("akp", "chp", "mhp", "hdp"), labels = c("AKP",
## +         "CHP", "MHP", "HDP"))) %>% pivot_wider(names_from = measure,
## +     values_from = value) %>% ggplot(aes(x = party, y = lrgen)) +
## +     geom_errorbar(aes(ymin = lrgen - lrgen_sd, ymax = lrgen +
## +         lrgen_sd), width = 0.1, linetype = "dashed", size = 0.8) +
## +     geom_point(size = 2) + theme_light() + theme(axis.line = element_line(colour = "black",
## +     size = 0.25), panel.grid.major = element_line(colour = "grey95",
## +     size = 0.25), panel.grid.minor = element_line(colour = "grey95",
## +     size = 0.125), panel.border = element_rect(fill = NA, colour = "grey95",
## +     size = 0.25), axis.text = element_text(size = 14), axis.title = element_text(size = 14),
## +     legend.position = "none") + labs(x = NULL, y = "Left-right positions in 2014\n")
##
## > print(figure_s1a)
##
## > ggsave(plot = figure_s1a, filename = "figures/figure_s1a.pdf",
## +     dpi = 1000, width = 8.5, height = 6, units = "in")
```




```
##
## > source("scripts/script_figure_s1b.R", echo = TRUE,
## +     max.deparse.length = Inf)
##
## > figure_s1b <- read.csv("datasets/data_pp.csv") %>%
## +     filter(dataset == "marpor") %>% mutate(party = factor(party,
## +     levels = c("akp", "chp", "mhp", "hdp"), labels = c("AKP",
## +         "CHP", "MHP", "HDP"))) %>% ggplot(aes(x = date, y = value,
## +     group = party)) + geom_line(size = 1.2) + geom_point(size = 2) +
## +     geom_text(aes(label = if_else(date == "2015_nov", as.character(party),
## +         "")), hjust = -0.4, vjust = 0.3, size = 4) + theme_light() +
## +     theme(axis.line = element_line(colour = "black", size = 0.25),
## +         panel.grid.major = element_line(colour = "grey95", size = 0.25),
## +         panel.grid.minor = element_line(colour = "grey95", size = 0.125),
## +         panel.border = element_rect(fill = NA, colour = "grey95",
## +             size = 0.25), axis.text = element_text(size = 14),
## +         axis.title = element_text(size = 14), legend.position = "none") +
## +     labs(x = NULL, y = "RILE scores in 2015\n") + scale_x_discrete(breaks = c("2015_jun",
## +     "2015_nov"), labels = c("June\n2015", "November\n2015"))
##
## > print(figure_s1b)
##
## > ggsave(plot = figure_s1b, filename = "figures/figure_s1b.pdf",
## +     dpi = 1000, width = 8.5, height = 6, units = "in")
```




```
sessionInfo()
```

```
## R version 4.0.3 (2020-10-10)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 19042)
##
## Matrix products: default
##
## locale:
## [1] LC_COLLATE=English_United Kingdom.1252
## [2] LC_CTYPE=English_United Kingdom.1252
## [3] LC_MONETARY=English_United Kingdom.1252
## [4] LC_NUMERIC=C
## [5] LC_TIME=English_United Kingdom.1252
##
## attached base packages:
## [1] stats     graphics  grDevices utils     datasets  methods   base
##
## other attached packages:
## [1] kableExtra_1.3.4 ebal_0.1-6       sf_0.9-6         ggplot2_3.3.3
## [5] tidyr_1.1.2      dplyr_1.0.2
##
## loaded via a namespace (and not attached):
##  [1] Rcpp_1.0.5         highr_0.8          pillar_1.4.7       compiler_4.0.3
##  [5] class_7.3-17       tools_4.0.3        digest_0.6.27      viridisLite_0.3.0
##  [9] evaluate_0.14      lifecycle_0.2.0    tibble_3.0.4       gtable_0.3.0
```

```
## [13] pkgconfig_2.0.3    rlang_0.4.10       rstudioapi_0.13    DBI_1.1.0
## [17] yaml_2.2.1         xfun_0.19          e1071_1.7-4        xml2_1.3.2
## [21] httr_1.4.2         withr_2.3.0        stringr_1.4.0      knitr_1.31
## [25] systemfonts_0.3.2  gdtools_0.2.2      generics_0.1.0     vctrs_0.3.6
## [29] webshot_0.5.2      classInt_0.4-3     grid_4.0.3         tidyselect_1.1.0
## [33] svglite_1.2.3.2    glue_1.4.2         R6_2.5.0           rmarkdown_2.7
## [37] farver_2.0.3       purrr_0.3.4        magrittr_2.0.1     scales_1.1.1
## [41] ellipsis_0.3.1     htmltools_0.5.1.1  units_0.6-7        rvest_0.3.6
## [45] colorspace_2.0-0   labeling_0.4.2     KernSmooth_2.23-17 stringi_1.5.3
## [49] munsell_0.5.0      crayon_1.3.4
```