When do Political Parties Moralize? A Cross-National Study of the Use of Moral Language in Political Communication on Immigration

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Replication Material

This document describes the datasets and R script necessary to reproduce all plots and tables included in the paper and in the Online Appendix. In the replication script, the necessary packages and the necessary data files are listed.

We recommend that you set the working directory (using *setwd()*) to the folder that contains the data at the beginning of the replication script.

Descriptions of Scripts

- **001_replication.R**: This R script replicates all tables and graphs included in the main text of the study and in the supplementary material. To do so, you can simply load all packages and necessary data files in the beginning and run the code provided in the script. All output (tables or figures) will be saved in the output folder automatically.

Descriptions of Files

- **combined_df.Rdata**: The prepared, final data frame that includes all necessary variables, aggregated on the year/party level.
- **ci_combined.Rdata** (etc.): Data frame that include country-level data for immigration and non-immigration related speeches.
- **mrd files**: Moral dictionary files in English, Danish, Dutch, German and Swedish.
- **cc_..._prepared files**: Files that include the crowd-coded validation data, used to calculate the performance metrics in Table 2 of the main manuscript.

Session Info

See information about attached packages and package version below:

```
## R version 4.3.1 (2023-06-16 ucrt)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 11 x64 (build 22631)
##
## Matrix products: default
##
##
## locale:
## [1] LC_COLLATE=Danish_Denmark.utf8  LC_CTYPE=Danish_Denmark.utf8
## [3] LC_MONETARY=Danish_Denmark.utf8 LC_NUMERIC=C
## [5] LC_TIME=Danish_Denmark.utf8
##
## time zone: Europe/Copenhagen
## tzcode source: internal
##
## attached base packages:
## [1] stats     graphics  grDevices utils     datasets  methods   base
##
## other attached packages:
##  [1] gridExtra_2.3      modelsummary_1.4.3 summarytools_1.0.1 broom_1.0.5
##  [5] dotwhisker_0.7.4   plm_2.6-4          tinytable_0.4.0    lubridate_1.9.3
##  [9] forcats_1.0.0      stringr_1.5.1      dplyr_1.1.4        purrr_1.0.2
## [13] readr_2.1.5        tidyr_1.3.1        tibble_3.2.1       ggplot2_3.5.0
## [17] tidyverse_2.0.0    quanteda_4.0.1
##
## loaded via a namespace (and not attached):
##   [1] rstudioapi_0.16.0       jsonlite_1.8.8          datawizard_0.9.0
##   [4] magrittr_2.0.3          estimability_1.4.1      ggstance_0.3.6
##   [7] magick_2.8.0            rmarkdown_2.26          ragg_1.3.0
##  [10] vctrs_0.6.5             askpass_1.2.0           base64enc_0.1-3
##  [13] webshot_0.5.5           htmltools_0.5.8.1       curl_5.2.1
##  [16] Formula_1.2-5           htmlwidgets_1.6.2       plyr_1.8.9
##  [19] sandwich_3.1-0          emmeans_1.8.8           zoo_1.8-12
##  [22] uuid_1.2-0              mime_0.12               lifecycle_1.0.4
##  [25] pkgconfig_2.0.3         Matrix_1.6-5            R6_2.5.1
##  [28] fastmap_1.1.1           rbibutils_2.2.16        shiny_1.7.5.1
```

```
##  [31] collapse_2.0.13        digest_0.6.35          numDeriv_2016.8-1.1
##  [34] colorspace_2.1-0       miscTools_0.6-28       fixest_0.11.2
##  [37] textshaping_0.3.7      lfe_2.9-0              fansi_1.0.6
##  [40] timechange_0.3.0       httr_1.4.7             compiler_4.3.1
##  [43] fontquiver_0.2.1       withr_3.0.1            pander_0.6.5
##  [46] backports_1.4.1        MASS_7.3-60.0.1        openssl_2.1.2
##  [49] gfonts_0.2.0           tools_4.3.1            lmtest_0.9-40
##  [52] stopwords_2.3          zip_2.3.1              httpuv_1.6.11
##  [55] glue_1.7.0             nlme_3.1-164           promises_1.2.1
##  [58] grid_4.3.1             checkmate_2.3.0        reshape2_1.4.4
##  [61] generics_0.1.3         gtable_0.3.5           tzdb_0.4.0
##  [64] data.table_1.15.4      hms_1.1.3              xml2_1.3.6
##  [67] utf8_1.2.4             tables_0.9.17          pillar_1.9.0
##  [70] later_1.3.1            pryr_0.1.6             lattice_0.22-6
##  [73] dreamerr_1.4.0         tidyselect_1.2.1       fontLiberation_0.1.0
##  [76] knitr_1.46             fontBitstreamVera_0.1.1 svglite_2.1.2
##  [79] crul_1.4.0             xfun_0.43              rapportools_1.1
##  [82] matrixStats_1.0.0      DT_0.33                stringi_1.8.3
##  [85] yaml_2.3.8             kableExtra_1.3.4       evaluate_0.23
##  [88] codetools_0.2-19       httpcode_0.3.0         officer_0.6.3
##  [91] tcltk_4.3.1            gdtools_0.3.4          cli_3.6.2
##  [94] xtable_1.8-4           parameters_0.21.3      systemfonts_1.0.6
##  [97] Rdpack_2.6             munsell_0.5.1          Rcpp_1.0.12
## [100] bdsmatrix_1.3-7        parallel_4.3.1         ellipsis_0.3.2
## [103] bayestestR_0.13.1      viridisLite_0.4.2      mvtnorm_1.2-3
## [106] scales_1.3.0           insight_0.19.7         crayon_1.5.2
## [109] flextable_0.9.4        maxLik_1.5-2.1         rlang_1.1.3
## [112] fastmatch_1.1-4        rvest_1.0.4
```