01 Data Wrangling

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Load data	

Load data

```
# Set working directory
wd <- paste0(here::here(), '/data/')</pre>
# Install datasets
# Power-sharing-specific datasets
idc <- rio::import(paste0(wd, 'IDC_country-year_v1_0.RData'))</pre>
dtd <- rio::import(paste0(wd,'Democracy Timeseries Data January 2009 Excel2007.csv'))</pre>
vdem <- rio::import(paste0(wd,"V-Dem-CY+Others-v8.csv"))</pre>
dpi <- rio::import(paste0(wd,'DPI2012.xls'))</pre>
qog_ts <- rio::import(paste0(wd,'qog_std_ts_jan19.csv'))</pre>
ucdp <- rio::import(paste0(wd, "ucdp-prio-acd-191.xlsx"))</pre>
intra <- rio::import(paste0(wd, 'annual_onset.dta'))</pre>
p4 <- rio::import(paste0(here::here(), "/data/p4v2017.xls"))
```

Tidy datasets

Set baseline data

```
# Use Strom et al.'s (2017) data as baseline
tb <- idc
# Rename unmatched countries
tb$country[tb$country == "Cent. Af. Rep."] <- "Central African Republic"
tb$country[tb$country == "Dom. Rep."] <- "Dominican Republic"
tb$country[tb$country == "GDR"] <- "German Democratic Republic"</pre>
tb$country[tb$country == "PRC"] <- "China"</pre>
tb$country[tb$country == "ROK"] <- "South Korea"</pre>
tb$country[tb$country == "S. Africa"] <- "South Africa"</pre>
tb$country[tb$country == "Serbia and Montenegro"] <- "Montenegro"</pre>
tb <- tb[!is.na(tb$country) & !is.na(tb$ifs),]</pre>
tb$cowc <- countrycode::countrycode(tb$country, 'country.name', 'cowc')</pre>
## Warning in countrycode::countrycode(tb$country, "country.name", "cowc"): Some values were not matche
tb$cown <- countrycode::countrycode(tb$country, 'country.name', 'cown')</pre>
## Warning in countrycode::countrycode(tb$country, "country.name", "cown"): Some values were not matche
# Some values were not matched unambiguously: Serbia
# Select key variables
tb <- tb %>%
 dplyr::select(country,
                 cowc,
                cown,
                 year,
                 ifs,
                mveto,
                 gcman,
                 gcimp,
                auton,
                jrevman,
                relconstd,
                relconstp,
                milleg,
                partynoethnic,
                 jtenure,
                 jconst,
                 gcseats1,
                gcseats2,
                 gcseats3,
                unity,
                resman,
                resseats,
                 resseats2,
                resseatsimp,
                 miman,
```

```
subtax,
subed,
subpolice,
fedunits,
state,
muni,
-ifs
)
```

Clean VDEM

```
# Select key variables
vdem_psp_sub <- vdem %>%
  dplyr::select(country_name,
                year,
                e_miinterc,
                e_Civil_War,
                v2elfrfair) %>%
  dplyr::rename(country = country_name)
vdem_psp_sub$country <- countrycode::countrycode(</pre>
  vdem_psp_sub$country, 'country.name', 'country.name'
## Warning in countrycode::countrycode(vdem_psp_sub$country, "country.name", : Some values were not mat
ncipe, Würtemberg
vdem_psp_sub$cown <- countrycode::countrycode(</pre>
  vdem_psp_sub$country, 'country.name', 'cown'
)
## Warning in countrycode::countrycode(vdem_psp_sub$country, "country.name", : Some values were not mat
vdem_psp_sub$cowc <- countrycode::countrycode(</pre>
  vdem_psp_sub$country, 'country.name', 'cowc'
## Warning in countrycode::countrycode(vdem_psp_sub$country, "country.name", : Some values were not mat
```

Clean QoG

vdem_psp_sub <- vdem_psp_sub %>%
dplyr::select(-country)

```
ffp_hr,
                iiag_phr,
                dpi_housesys,
                jw_bicameral,
                bti_ig,
                vdem_partipdem,
                iaep_nr,
                bti_sop,
                bti_ffe,
                gol_est,
                gol_mt,
                iaep_es,
                no_ef,
                no_ce,
                iaep_eccdt,
                iaep_ecdl,
                iaep_eml,
                iaep_epmf,
                iaep_evp,
                iaep_lcre,
                iaep_lego,
                iaep_lrit,
                wbgi_pve,
                hum_satdem,
                hum_supdem,
                hum_trust,
                wdi_gini,
                gle_pop,
                al_ethnic,
                dpi_auton,
                pt_federal
 ) %>%
 dplyr::rename(country = cname)
qog_ts_psp_sub$country[
  qog_ts_psp_sub$country == "Micronesia"
  ] <- "Federated States of Micronesia"
qog_ts_psp_sub$country[
  qog_ts_psp_sub$country == "Serbia and Montenegro"
  ] <- "Montenegro"
qog_ts_psp_sub$country <- countrycode::countrycode(</pre>
  qog_ts_psp_sub$country, 'country.name', 'country.name'
## Warning in countrycode::countrycode(qog_ts_psp_sub$country, "country.name", : Some values were not m
qog_ts_psp_sub$cown <- countrycode::countrycode(</pre>
 qog_ts_psp_sub$country, 'country.name', 'cown'
## Warning in countrycode::countrycode(qog_ts_psp_sub$country, "country.name", : Some values were not m
qog ts psp sub$cowc <- countrycode::countrycode(</pre>
 qog_ts_psp_sub$country, 'country.name', 'cowc'
```

```
## Warning in countrycode::countrycode(qog_ts_psp_sub$country, "country.name", : Some values were not m
qog_ts_psp_sub <- qog_ts_psp_sub %>%
    dplyr::select(-country)
```

Clean DPI

```
# Select key variables
dpi_psp_sub <- dpi %>%
  dplyr::select(countryname,
                year,
                system,
                author,
                pr,
                sensys,
                eiec
                ) %>%
  dplyr::rename(country = countryname) %>%
  dplyr::mutate(year = as.numeric(year))
dpi_psp_sub$country[dpi_psp_sub$country == "Cent. Af. Rep."] <- "Central African Republic"
dpi_psp_sub$country[dpi_psp_sub$country == "Dom. Rep."] <- "Dominican Republic"
dpi_psp_sub$country[dpi_psp_sub$country == "GDR"] <- "German Democratic Republic"
dpi_psp_sub$country[dpi_psp_sub$country == "PRC"] <- "China"</pre>
dpi_psp_sub$country[dpi_psp_sub$country == "PRK"] <- "North Korea"</pre>
dpi_psp_sub$country[dpi_psp_sub$country == "ROK"] <- "South Korea"</pre>
dpi_psp_sub$country[dpi_psp_sub$country == "S. Africa"] <- "South Africa"
dpi_psp_sub$country <- countrycode::countrycode(</pre>
  dpi_psp_sub$country, 'country.name', 'country.name'
dpi_psp_sub$cowc <- countrycode::countrycode(</pre>
  dpi_psp_sub$country, 'country.name', 'cowc'
dpi_psp_sub$cown <- countrycode::countrycode(</pre>
  dpi_psp_sub$country, 'country.name', 'cown'
dpi_psp_sub <- dpi_psp_sub %>%
 dplyr::select(-country)
```

Clean UCDP

```
ucdp_psp_sub$cowc <- countrycode::countrycode(</pre>
  ucdp_psp_sub$country, "country.name", "cowc"
## Warning in countrycode::countrycode(ucdp_psp_sub$country, "country.name", : Some values were not mat
ucdp_psp_sub$cown <- countrycode::countrycode(</pre>
  ucdp_psp_sub$country, "country.name", "cown"
## Warning in countrycode::countrycode(ucdp_psp_sub$country, "country.name", : Some values were not mat
ucdp_psp_sub <- dplyr::select(ucdp_psp_sub, -country)</pre>
Clean PRIO
intra_psp_sub <- intra %>%
  dplyr::select(gwno, year, onset2)
intra_psp_sub$cowc <- countrycode::countrycode(</pre>
  intra_psp_sub$gwno, 'gwn', 'cowc'
  )
## Warning in countrycode::countrycode(intra_psp_sub$gwno, "gwn", "cowc"): Some values were not matched
intra_psp_sub$cown <- countrycode::countrycode(</pre>
  intra_psp_sub$gwno, 'gwn', 'cown'
 )
## Warning in countrycode::countrycode(intra_psp_sub$gwno, "gwn", "cown"): Some values were not matched
intra_psp_sub <- intra_psp_sub %>% dplyr::select(-gwno)
Clean PolityIV
p4_psp_sub <- p4 %>%
  dplyr::select(country, year, polity, fragment)
p4_psp_sub$cowc <- countrycode::countrycode(
```

```
p4_psp_sub <- p4 %>%
    dplyr::select(country, year, polity, fragment)

p4_psp_sub$cowc <- countrycode::countrycode(
    p4_psp_sub$country, 'country.name', 'cowc'
)

## Warning in countrycode::countrycode(p4_psp_sub$country, "country.name", : Some values were not match
p4_psp_sub$cown <- countrycode::countrycode(
    p4_psp_sub$country, 'country.name', 'cown'
)

## Warning in countrycode::countrycode(p4_psp_sub$country, "country.name", : Some values were not match
p4_psp_sub <- p4_psp_sub %>%
    dplyr::filter(lis.na(cowc)) %>%
    dplyr::select(-country)
```

Clean RAI

```
rai_psp_sub <- rio::import(paste0(here::here(), "/data/RAI_country_scores_2015.xlsx")) %>%
  dplyr::select(country_name, year, n_RAI) %>%
  dplyr::mutate(cown = countrycode::countrycode(country_name, "country.name", "cown"),
                cowc = countrycode::countrycode(cown, "cown", "cowc"),
                year = as.numeric(year)) %>%
  dplyr::select(cown, cowc, year, n_RAI)
## New names:
## * n_rep -> n_rep...11
## * n_lawmaking -> n_lawmaking...12
## * n_rep -> n_rep...21
## * n_lawmaking -> n_lawmaking...24
## Warning in countrycode::countrycode(country_name, "country.name", "cown"): Some values were not matc
Clean EPR
epr <- rio::import(paste0(here::here(), "/data/EPR-2018.1.1.csv")) %>%
  dplyr::mutate(cown = countrycode::countrycode(gwid, "gwn", "cown")) %>%
  dplyr::select(cown, from, group, reg_aut) %>%
  dplyr::rename(year = from) %>%
  dplyr::group by(cown, group) %>%
  tidyr::complete(cown, group,
                 year = 1946:2017,
                  fill = list(incidents = 0))
## Warning in countrycode::countrycode(gwid, "gwn", "cown"): Some values were not matched unambiguously
epr wide <- epr %>%
  tidyr::pivot_wider(names_from = group,
                     values_from = reg_aut) %>%
 dplyr::group_by(cown)
epr_wide <- epr_wide %>%
 tidyr::fill_(names(epr_wide[,2:642])) %>%
  dplyr::ungroup()
epr_wide$reg_aut_cont <- rowSums(epr_wide[,3:642] == TRUE, na.rm = TRUE)
epr_psp_sub <- epr_wide %>%
  dplyr::mutate(reg_aut_dum = ifelse(reg_aut_cont >= 1, 1, 0),
                cowc = countrycode::countrycode(cown, "cown", "cowc")) %>%
```

Join data

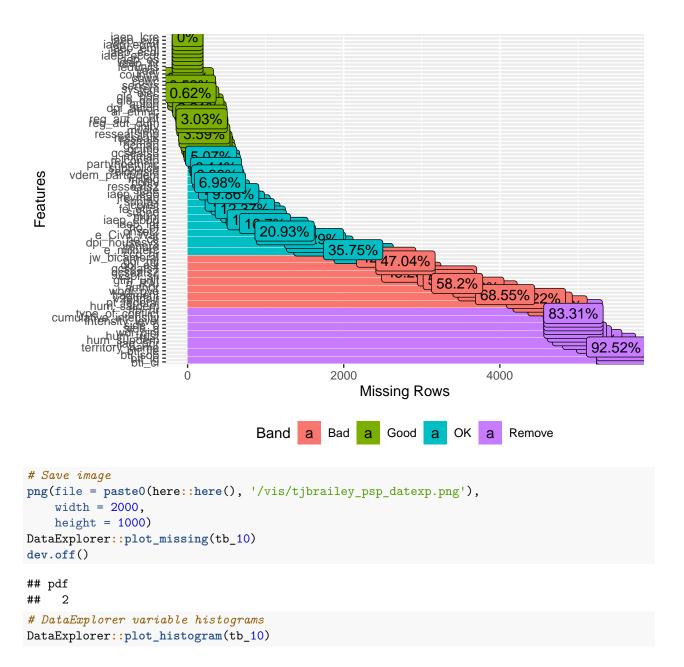
```
# Join data one-by-one. Check for discrepancies
tb_2 <- dplyr::left_join(tb, qog_ts_psp_sub, by = c("cown", "cowc", "year"))
tb_3 <- dplyr::left_join(tb_2, dpi_psp_sub, by = c("cown", "cowc", "year"))
tb_4 <- dplyr::left_join(tb_3, vdem_psp_sub, by = c("cown", "cowc", "year"))
tb_5 <- dplyr::left_join(tb_4, ucdp_psp_sub, by = c("cown", "cowc", "year"))</pre>
```

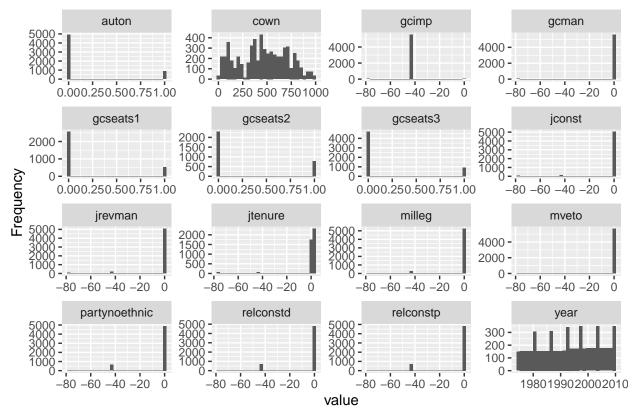
dplyr::select(cown, cowc, year, reg_aut_dum, reg_aut_cont)

```
tb_6 <- dplyr::left_join(tb_5, epr_psp_sub, by = c("cown", "cowc", "year"))</pre>
tb_7 <- dplyr::left_join(tb_6, intra_psp_sub, by = c("cown", "cowc", "year"))
## Warning: Column `year` has different attributes on LHS and RHS of join
tb_8 <- dplyr::left_join(tb_7, p4_psp_sub, by = c("cown", "cowc", "year"))
tb_9 <- dplyr::left_join(tb_8, rai_psp_sub, by = c("cown", "cowc", "year"))
# Collapse duplicate country/years whie retaining values
tb_10 <- tb_9 %>%
  dplyr::group_by(country, year) %>%
 dplyr::summarise_all(dplyr::funs(dplyr::first(na.omit(.))))
## Warning: funs() is soft deprecated as of dplyr 0.8.0
## Please use a list of either functions or lambdas:
##
##
    # Simple named list:
    list(mean = mean, median = median)
##
##
     # Auto named with `tibble::lst()`:
##
##
    tibble::lst(mean, median)
##
##
     # Using lambdas
     list(~ mean(., trim = .2), ~ median(., na.rm = TRUE))
## This warning is displayed once per session.
# Save data as a .rds file
saveRDS(tb_10, paste0(here::here(), '/data/tjbrailey_psp_not_cleaned.rds'))
# Remove intermediate join files
#rm(tb, tb_1, tb_2, tb_3, tb_4, tb_5, tb_6)
```

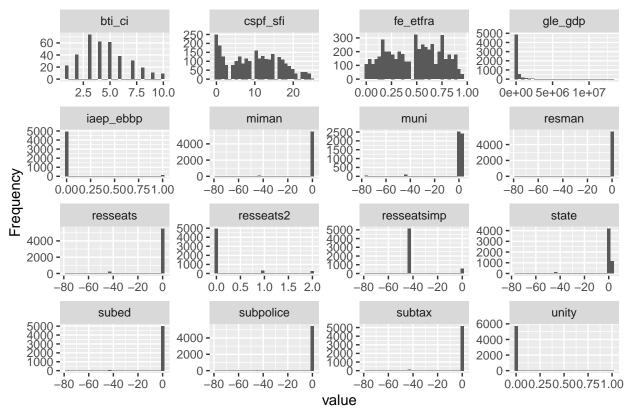
Visualize data before recoding

```
# DataExplorer missingness
DataExplorer::plot_missing(tb_10)
```

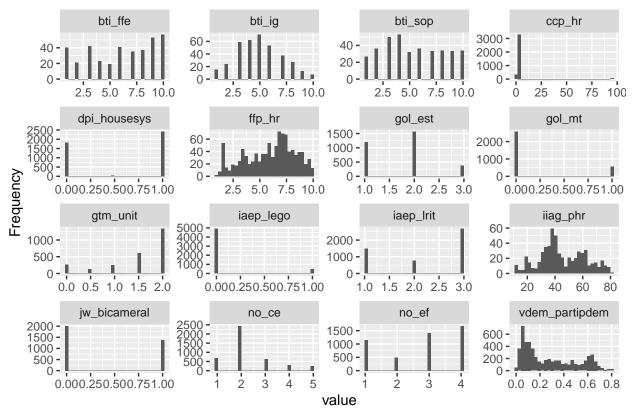




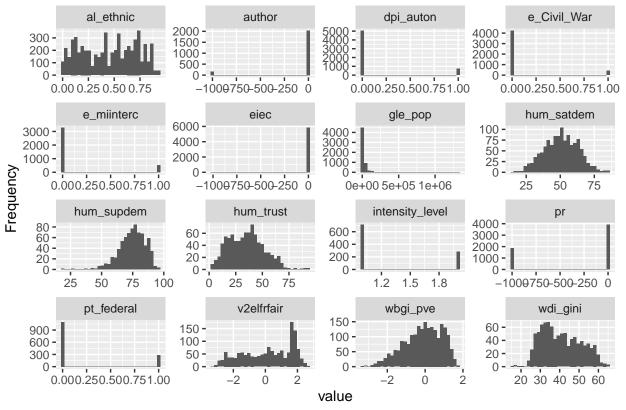
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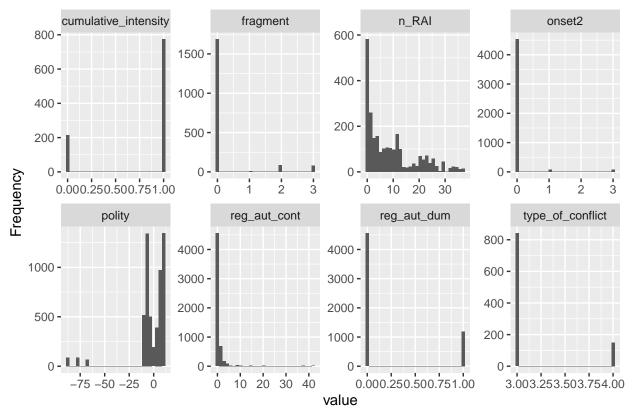
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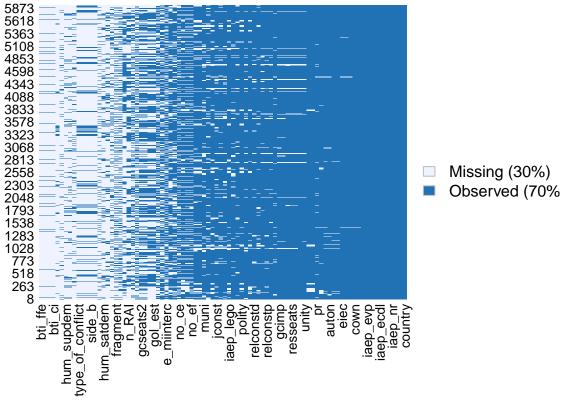
```
# Save images
png(file = paste0(here::here(), '/vis/tjbrailey_psp_datexp.png'),
    width = 2000,
    height = 1000)
DataExplorer::plot_histogram(tb_10)
dev.off()

## pdf
## 2
# Amelia missingness
Amelia::missmap(tb_10)

## Warning: Unknown or uninitialised column: 'arguments'.

## Warning: Unknown or uninitialised column: 'imputations'.
```

Missingness Map



```
# Save image
png(file = pasteO(here::here(), "/vis/tjbrailey_psp_missingness.png"),
    width = 2000,
    height = 1000)
Amelia::missmap(tb_10)

## Warning: Unknown or uninitialised column: 'arguments'.

## Warning: Unknown or uninitialised column: 'imputations'.

## Warning: Unknown or uninitialised column: 'imputations'.

dev.off()

## pdf
## pdf
## 2
```

Recode and Rename Variables

```
# Install data
psp <- rio::import(pasteO(here::here(), "/data/tjbrailey_psp_not_cleaned.rds"))
# Remove codings for NA values
psp_na_recode <- psp
psp_na_recode[psp_na_recode == "-999"] <- NA</pre>
```

```
psp_na_recode[psp_na_recode == "-44"] <- NA
psp_na_recode[psp_na_recode == "-66"] <- NA
psp_na_recode[psp_na_recode == "-77"] <- NA
psp_na_recode[psp_na_recode == "-88"] <- NA</pre>
psp_na_recode$ccp_hr[psp_na_recode$ccp_hr == "96"] <- 3</pre>
psp_na_recode[psp_na_recode == ".a"] <- NA</pre>
psp_na_recode[psp_na_recode == ".b"] <- NA</pre>
psp_na_recode[psp_na_recode == ".e"] <- NA</pre>
# Rename variables
psp_rename <- psp_na_recode</pre>
psp_rename <- psp_rename %>%
  dplyr::rename(idc_mveto = mveto,
                idc_gcman = gcman,
                idc_gcimp = gcimp,
                 idc_auton = auton,
                idc_jrevman = jrevman,
                idc_relconstd = relconstd,
                idc_relconstp = relconstp,
                idc_milleg = milleg,
                idc_partynoethnic = partynoethnic,
                idc_jtenure = jtenure,
                idc_jconst = jconst,
                idc_gcseats1 = gcseats1,
                idc_gcseats2 = gcseats2,
                idc_gcseats3 = gcseats3,
                 idc_unity = unity,
                 idc_resman = resman,
                 idc_resseats = resseats,
                 idc_resseats2 = resseats2,
                 idc_resseatsimp = resseatsimp,
                 idc_miman = miman,
                 idc_subtax = subtax,
                 idc_subed = subed,
                 idc_subpolice = subpolice,
                 idc_state = state,
                 idc_muni = muni,
                 idc_fedunits = fedunits,
                 qog_fe_etfra = fe_etfra,
                qog_iaep_ebbp = iaep_ebbp,
                 qog_gle_gdp = gle_gdp,
                qog_bti_ci = bti_ci,
                 qog_cspf_sfi = cspf_sfi,
                qog_gtm_unit = gtm_unit,
                qog_ccp_hr = ccp_hr,
                qog_ffp_hr = ffp_hr,
                qog_iiag_phr = iiag_phr,
                 qog_dpi_housesys = dpi_housesys,
                 qog_jw_bicameral = jw_bicameral,
```

```
qog_bti_ig = bti_ig,
qog_vdem_partipdem = vdem_partipdem,
qog_iaep_nr = iaep_nr,
qog_bti_sop = bti_sop,
qog_gol_est = gol_est,
qog_gol_mt = gol_mt,
qog_iaep_es = iaep_es,
qog_no_ef = no_ef,
qog_no_ce = no_ce,
qog_iaep_eccdt = iaep_eccdt,
qog_iaep_ecdl = iaep_ecdl,
qog_iaep_eml = iaep_eml,
qog_iaep_epmf = iaep_epmf,
qog_iaep_evp = iaep_evp,
qog_iaep_lcre = iaep_lcre,
qog_iaep_lego = iaep_lego,
qog_iaep_lrit = iaep_lrit,
qog_wbgi_pve = wbgi_pve,
qog_hum_satdem = hum_satdem,
qog_hum_supdem = hum_supdem,
qog_hum_trust = hum_trust,
qog_wdi_gini = wdi_gini,
qog_gle_pop = gle_pop,
qog_al_ethnic = al_ethnic,
qog_pt_federal = pt_federal,
dpi_system = system,
dpi_author = author,
dpi_pr = pr,
dpi_sensys = sensys,
dpi_eiec = eiec,
vdem_e_miinterc = e_miinterc,
vdem_e_civil_war = e_Civil_War,
ucdp_side_a = side_a,
ucdp_side_b = side_b,
ucdp_territory_name = territory_name,
ucdp_intensity_level = intensity_level,
ucdp_type_of_conflict = type_of_conflict,
ucdp_cumulative_intensity = cumulative_intensity,
prio_onset = onset2,
polity4_polity_score = polity,
polity4_fragment = fragment,
epr_reg_aut_dum = reg_aut_dum,
epr_reg_aut_cont = reg_aut_cont,
rai_n_RAI = n_RAI
) %>%
```

```
# Fill out remaining variables
  dplyr::group_by(country) %>%
  tidyr::fill(qog_wdi_gini,
              qog_wbgi_pve,
              qog_hum_satdem,
              qog_hum_supdem,
              qog_hum_trust,
              bti_ffe,
              v2elfrfair)
variable.names(psp_rename)
    [1] "country"
                                      "vear"
    [3] "cowc"
                                      "cown"
##
    [5] "idc_mveto"
##
                                      "idc_gcman"
##
   [7] "idc_gcimp"
                                      "idc_auton"
   [9] "idc_jrevman"
                                      "idc_relconstd"
## [11] "idc_relconstp"
                                      "idc_milleg"
## [13] "idc_partynoethnic"
                                      "idc_jtenure"
## [15] "idc_jconst"
                                     "idc_gcseats1"
## [17] "idc gcseats2"
                                      "idc_gcseats3"
## [19] "idc unity"
                                      "idc resman"
## [21] "idc_resseats"
                                      "idc_resseats2"
## [23] "idc resseatsimp"
                                      "idc miman"
## [25] "idc_subtax"
                                      "idc_subed"
                                      "idc_fedunits"
## [27] "idc_subpolice"
## [29] "idc_state"
                                     "idc_muni"
## [31] "qog_fe_etfra"
                                      "qog_iaep_ebbp"
## [33] "qog_gle_gdp"
                                      "qog_bti_ci"
## [35] "qog_cspf_sfi"
                                      "qog_gtm_unit"
## [37] "qog_ccp_hr"
                                      "qog_ffp_hr"
                                      "qog_dpi_housesys"
## [39] "qog_iiag_phr"
                                      "qog_bti_ig"
## [41] "qog_jw_bicameral"
## [43] "qog_vdem_partipdem"
                                      "qog_iaep_nr"
## [45] "qog_bti_sop"
                                      "bti_ffe"
## [47] "qog_gol_est"
                                      "qog_gol_mt"
## [49] "qog_iaep_es"
                                      "qog_no_ef"
## [51] "qog_no_ce"
                                      "qog_iaep_eccdt"
## [53] "qog_iaep_ecdl"
                                      "qog iaep eml"
## [55] "qog_iaep_epmf"
                                      "qog_iaep_evp"
## [57] "qog_iaep_lcre"
                                      "qog_iaep_lego"
## [59] "qog_iaep_lrit"
                                     "qog_wbgi_pve"
## [61] "qog_hum_satdem"
                                      "qog_hum_supdem"
## [63] "qog_hum_trust"
                                      "qog_wdi_gini"
  [65] "qog_gle_pop"
                                      "qog_al_ethnic"
                                      "qog_pt_federal"
  [67]
       "dpi_auton"
##
  [69] "dpi_system"
                                      "dpi_author"
## [71] "dpi_pr"
                                      "dpi_sensys"
       "dpi_eiec"
                                      "vdem_e_miinterc"
## [73]
## [75] "vdem_e_civil_war"
                                      "v2elfrfair"
## [77] "ucdp_side_a"
                                      "ucdp_side_b"
                                      "ucdp_intensity_level"
## [79] "ucdp_territory_name"
## [81] "ucdp_cumulative_intensity"
                                     "ucdp_type_of_conflict"
```

[83] "epr_reg_aut_dum"

"epr_reg_aut_cont"

Additional variables

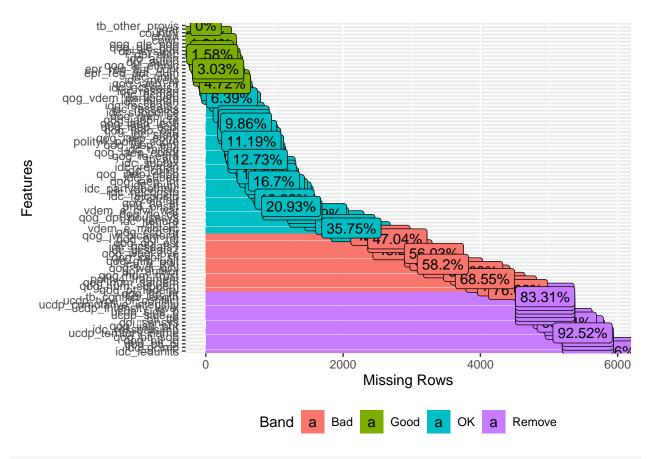
```
psp_add_bin <- psp_rename %>%
  # Other provisions
 dplyr::mutate(tb_other_provis = ifelse(idc_mveto == 1|
                                      idc_gcman == 1 |
                                        idc_gcimp == 1 |
                                        dpi_pr == 1, 1, 0),
  tb_other_provis = ifelse(is.na(tb_other_provis), 0, tb_other_provis)) %>%
  # Alternative measure of autonomy
  dplyr::mutate(tb_aut = ifelse(idc_subtax == 1 |
                                  idc_subed == 1 |
                                  idc_subpolice == 1, 1, 0)) %>%
  dplyr::group_by(ucdp_side_a, ucdp_side_b) %>%
  # Length of conflict
  dplyr::mutate(tb_conflict_length = sum(
   length(ucdp_cumulative_intensity), na.rm = T)
   ) %>%
  dplyr::ungroup()
psp_add_bin$tb_conflict_length[psp_add_bin$tb_conflict_length == 4943] <- NA
```

Save final data

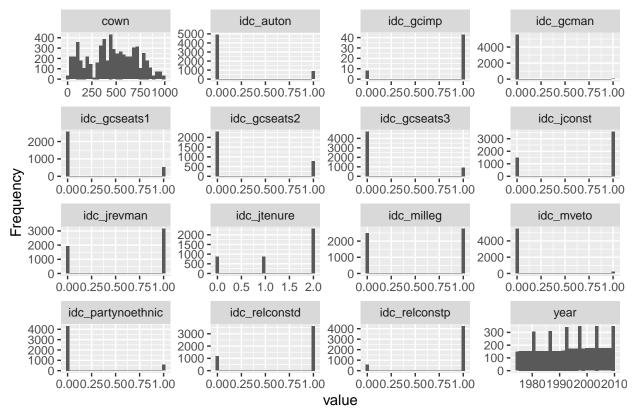
```
# Save as a .csv file
#write.csv(psp_add_bin, file = paste0(here::here(), "/data/tjbrailey_psp_clean.csv"))
```

Visualize after recoding

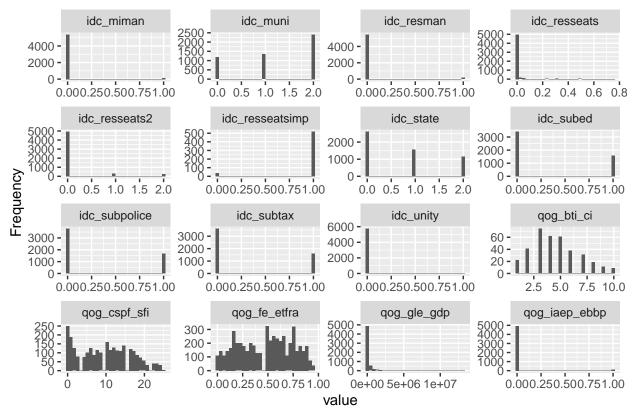
```
DataExplorer::plot_missing(psp_add_bin)
```



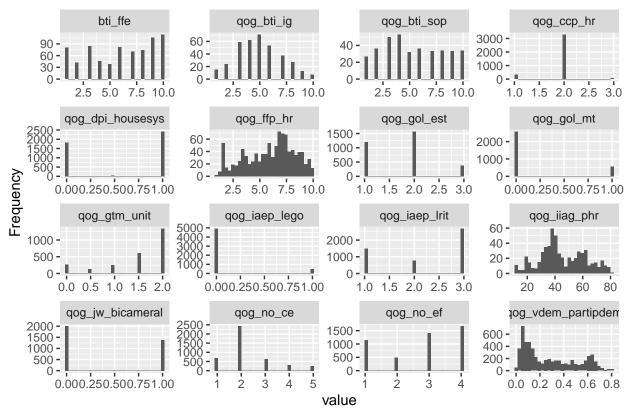
DataExplorer::plot_histogram(psp_add_bin)



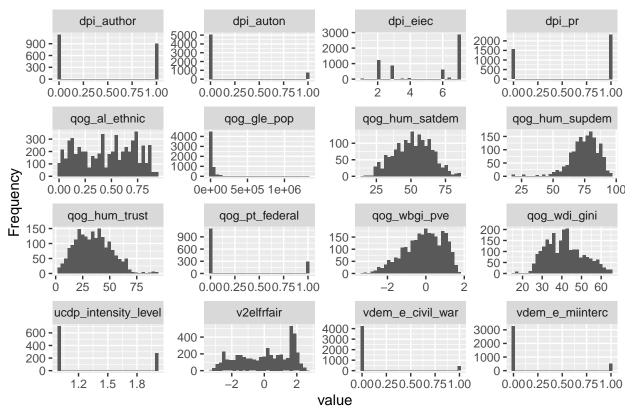
Page 1



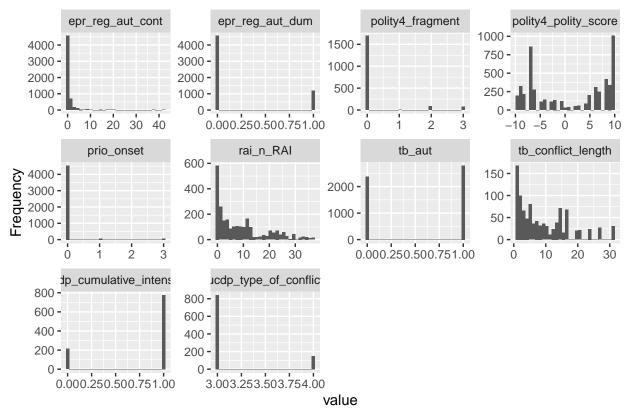
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Amelia::missmap(psp_add_bin)

Warning: Unknown or uninitialised column: 'arguments'.

Warning: Unknown or uninitialised column: 'arguments'.

Warning: Unknown or uninitialised column: 'imputations'.

Missingness Map

```
5873
5618
5363
             5108
             4853
             4598
             4343
4088
             3833
             3578
                                                                                                        Missing (34%)
             2558
                                                                                                        Observed (66%
             1538
             1283
1028
773
518
              263
                                    og_hum_trust
rai_n_RAI
gog_cspf_sfi
gog_gol_mt
gog_ccp_hr
idc_tenure
n_e_civil_war
                                                             idc_rewman
qog_fe_etfra
idc_milleg
idc_state
                                                                       _iaep_lego |
subpolice
idc_miman
                                                         _partynoethnic_idc_subed
png(file = paste0(here::here(), "/vis/tjbrailey_psp_clean_missingness.png"),
     width = 2000,
     height = 1000)
Amelia::missmap(psp_add_bin)
## Warning: Unknown or uninitialised column: 'arguments'.
## Warning: Unknown or uninitialised column: 'arguments'.
## Warning: Unknown or uninitialised column: 'imputations'.
dev.off()
## pdf
##
```