Data preparation

Socioeconomic and Gender Disparities: A Multi-Country Study

Andreas Laffert, Research asistant

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1 Presentation

This is the preparation code of the data for the project Socioeconomic and Gender Disparities: A Multi-Country Study. The prepared data is `SOGEDI_dataset_V1.sav`

2 Libraries

```r
if (! require("pacman")) install.packages("pacman")

pacman::p_load(tidyverse,
               sjmisc,
               here,
               sjlabelled,
               haven,
               naniar,
               car,
               kableExtra)

options(scipen=999)
rm(list = ls())
```

3 Data

```
sogedi_db <- haven::read_sav(file = here("input/data/original/SOGEDI_dataset_V1.sav"),

glimpse(sogedi_db)
```

```
Rows: 4,386
Columns: 283
$ ID                        <dbl> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,~
$ StartDate                 <dttm> 2024-04-28 11:11:20, 2024-04-28 11:12:34,~
$ EndDate                   <dttm> 2024-04-28 11:30:12, 2024-04-28 11:31:15,~
$ IPAddress                 <chr> "90.167.243.1", "83.58.124.179", "79.152.1~
$ Duration__in_seconds      <dbl> 1132, 1120, 1192, 1410, 1328, 645, 933, 88~
$ RecordedDate              <dttm> 2024-04-28 11:30:12, 2024-04-28 11:31:16,~
$ ResponseId                <chr> "R_1eqka09S3bZXYTp", "R_42oDc55cfSucfrX", ~
$ LocationLatitude          <chr> "41.6362", "41.3891", "41.4287", "41.5453"~
$ LocationLongitude         <chr> "-4.7435", "2.1606", "2.2164", "2.4414", "~
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$ aten_check_2              <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,~
$ aten_check_3              <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,~
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$ time_class_1_Last_Click   <dbl> 55.801, 60.736, 38.827, 50.411, 249.534, 2~
$ time_class_1_Page_Submit  <dbl> 57.095, 62.226, 40.360, 51.672, 250.460, 2~
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$ jus_ine                   <dbl+lbl> 1, 2, 1, 1, 2, 5, 1, 1, 2, 1, 2, 5, 3,~
$ co_eco                    <dbl+lbl> 7, 7, 6, 4, 5, 3, 6, 6, 3, 2, 1, 4, 5,~
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$ time_class_2_Last_Click   <dbl> 88.112, 83.882, 68.033, 82.459, 61.386, 32~
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$ hc_pm_4                      <dbl+lbl> 3, 2, 4, 2, 5, 4, 2, 4, 1, 5, 7, 3, 5,~
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$ time_gender_1_Last_Click     <dbl> 126.481, 112.822, 147.886, 102.824, 82.228~
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$ gen_in_5                     <dbl+lbl> 4, 6, 3, 5, 7, 3, 7, 4, 6, 5, 6, 5, 3,~
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$ jus_gen                      <dbl+lbl> 1, 2, 1, 2, 3, 3, 3, 1, 1, 1, 1, 5, 3,~
$ gen_compe                    <dbl+lbl> 4, 6, 5, 5, 4, 4, 1, 4, 4, 4, 1, 5, 5,~
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$ time_contac_1_Last_Click     <dbl> 138.959, 125.608, 145.143, 147.327, 288.91~
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$ condi_class                  <dbl+lbl> 1, 1, 0, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0,~
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$ asc_rm                  <dbl> 50, 75, 61, 51, 70, 64, 51, 58, 51, 15, 70~
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$ effec_pw_2              <dbl+lbl> 7, 6, 3, 5, 4, 3, 3, 5, 2, 3, 4, 3, 6,~
$ effec_pm_1              <dbl+lbl> 1, 1, 6, 1, 4, 4, 3, 3, 2, 5, 7, 5, 5,~
$ effec_pm_2              <dbl+lbl> 7, 6, 3, 4, 3, 4, 3, 4, 2, 4, 7, 5, 3,~
```

```
$ poli_progre_1           <dbl+lbl> 7, 7, 5, 6, 7, 2, 7, 6, 6, 6, 7, 6, 5,~
$ poli_progre_2           <dbl+lbl> 7, 7, 5, 6, 7, 3, 5, 7, 6, 6, 7, 6, 6,~
$ poli_restri_1           <dbl+lbl> 7, 4, 6, 1, 6, 3, 4, 4, 4, 6, 6, 3, 4,~
$ poli_restri_2           <dbl+lbl> 3, 6, 5, 1, 4, 3, 2, 6, 3, 4, 7, 5, 5,~
$ aut_pw_1                <dbl+lbl> 7, 6, 3, 5, 5, 4, 2, 2, 3, 4, 7, 3, 3,~
$ aut_pm_1                <dbl+lbl> 7, 6, 3, 5, 4, 4, 2, 3, 4, 4, 7, 2, 3,~
$ depe_pw_1               <dbl+lbl> 6, 2, 5, 1, 6, 4, 5, 4, 4, 4, 7, 5, 5,~
$ depe_pm_1               <dbl+lbl> 6, 3, 5, 1, 6, 4, 5, 4, 4, 4, 7, 5, 5,~
$ time_violence_First_Click    <dbl> 1.529, 11.600, 32.419, 63.577, 13.948, 6.5~
$ time_violence_Last_Click     <dbl> 85.503, 117.811, 121.627, 225.891, 87.475,~
$ time_violence_Page_Submit    <dbl> 86.202, 120.009, 122.810, 235.969, 93.996,~
$ time_violence_Click_Count    <dbl> 58, 22, 27, 26, 25, 40, 30, 22, 23, 25, 25~
$ condi_viole             <dbl+lbl> 0, 1, 0, 0, 1, 1, 1, 1, 0, 0, 0, 1, 1,~
$ hara_pw_1               <dbl+lbl> 7, 6, 3, 7, 5, 5, 5, 5, 5, 6, 4, 5, 4,~
$ hara_pw_2               <dbl+lbl> 7, 7, 7, 7, 7, 7, 7, 6, 7, 7, 7, 7, 5,~
$ hara_pw_3               <dbl+lbl> 7, 6, 2, 7, 6, 7, 7, 5, 6, 7, 7, 7, 6,~
$ abu_pw_1                <dbl+lbl> 7, 7, 3, 7, 5, 7, 7, 6, 6, 7, 7, 7, 7,~
$ abu_pw_2                <dbl+lbl> 7, 7, 4, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7,~
$ abu_pw_3                <dbl+lbl> 7, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,~
$ viole_pw_1              <dbl+lbl> 7, 5, 7, 2, 3, 3, 3, 6, 4, 7, 6, 5, 2,~
$ viole_pw_2              <dbl+lbl> 7, 6, 7, 2, 5, 4, 4, 5, 4, 6, 6, 5, 3,~
$ viole_pw_3              <dbl+lbl> 7, 7, 6, 2, 7, 4, 4, 6, 6, 7, 6, 5, 5,~
$ viole_pw_4              <dbl+lbl> 7, 5, 6, 2, 5, 4, 4, 6, 4, 6, 6, 4, 2,~
$ viole_pw_5              <dbl+lbl> 7, 2, 6, 2, 2, 3, 4, 4, 7, 6, 4, 3, 3,~
$ viole_pw_6              <dbl+lbl> 7, 6, 5, 2, 6, 5, 4, 6, 6, 6, 7, 4, 4,~
$ barri_pw_1              <dbl+lbl> 6, 5, 7, 2, 2, 3, 6, 6, 6, 7, 7, 7, 5,~
$ barri_pw_2              <dbl+lbl> 6, 1, 7, 2, 1, 3, 5, 7, 6, 7, 7, 6, 3,~
$ barri_pw_3              <dbl+lbl> 6, 6, 6, 2, 4, 4, 3, 7, 6, 6, 7, 4, 5,~
$ barri_pw_4              <dbl+lbl> 6, 3, 6, 2, 3, 4, 6, 7, 6, 6, 7, 4, 2,~
$ barri_pw_5              <dbl+lbl> 6, 6, 5, 2, 6, 4, 6, 5, 4, 7, 7, 3, 3,~
$ perpe_1                 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
$ perpe_2                 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
$ perpe_3                 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
$ perpe_4                 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
$ perpe_5                 <dbl+lbl> 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1,~
$ time_demo_1_First_Click      <dbl> 1.801, 1.418, 2.388, 1.532, 1.449, 0.778, ~
$ time_demo_1_Last_Click       <dbl> 151.620, 113.887, 108.556, 125.513, 61.897~
$ time_demo_1_Page_Submit      <dbl> 152.193, 115.771, 110.955, 126.555, 63.446~
$ time_demo_1_Click_Count      <dbl> 64, 24, 27, 29, 22, 26, 25, 25, 19, 26, 22~
$ age                     <dbl+lbl> 54, 58, 57, 30, 25, 22, 27, 29, 22, 41~
$ sex                     <dbl+lbl> 2, 1, 2, 1, 2, 2, 1, 1, 1, 2, 1, 1, 2,~
```

```
$ sex_other                    <chr> "", "", "", "", "", "", "", "", "", "", ""~
$ edu                          <dbl+lbl> 5, 5, 5, 6, 5, 5, 5, 4, 5, 5, 6, 5, 6,~
$ ses                          <dbl+lbl> 6, 6, 6, 7, 7, 7, 6, 5, 5, 4, 6, 8, 6,~
$ hig_ide                      <dbl+lbl> 2, 1, 1, 4, 2, 4, 1, 2, 2, 1, 3, 4, 3,~
$ mid_ide                      <dbl+lbl> 5, 6, 6, 6, 6, 5, 4, 6, 4, 3, 7, 6, 6,~
$ low_ide                      <dbl+lbl> 3, 1, 2, 2, 1, 2, 3, 2, 3, 5, 1, 3, 2,~
$ po                           <dbl+lbl> 1, 2, 2, 3, 2, 5, 1, 2, 2, 1, 5, 6, 6,~
$ country_residence            <dbl+lbl> 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,~
$ country_residence_other      <chr> "", "", "", "", "", "", "", "", "", "", ""~
$ country_residence_recoded    <dbl+lbl> 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,~
$ natio_arge                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_colom                  <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_espa                   <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
$ natio_mex                    <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_chile                  <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_peru                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_boli                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_cost                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_cuba                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_ecua                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_elsa                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_guat                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_eqgu                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_hond                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_nica                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_pana                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_para                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_puer                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_domi                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_urug                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ natio_vene                   <dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ nati_other                   <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ nati_other_text              <chr> "", "", "", "", "", "", "", "", "", "", ""~
$ lang                         <dbl+lbl> 1, 1, 3, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
$ lang_other                   <chr> "", "", "Catalán", "Catalán", "", "", "", ~
$ lang_recoded                 <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
$ inc                          <dbl> 3200, 1300, 3000, 60000, 3500, 600, 1800, ~
$ currency                     <dbl+lbl> 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,~
$ post_code                    <chr> "40197", "47001", "08020", "00001", "41005~
$ municipality                 <chr> "Segovia", "Valladolid", "sant marti", "-"~
$ n_perso                      <dbl+lbl> 3, 1, 4, 2, 3, 3, 3, 2, 1, 3, 1, 3, 4,~
```

```
$ ori_sex                <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 3, 1, 1, 1, 1,~
$ ori_sex_other          <chr> "", "", "", "", "", "", "", "", "", "", ""~
$ relation               <dbl+lbl> 1, 2, 1, 1, 1, 2, 1, 1, 2, 1, 2, 1, 1,~
$ natio_recoded          <dbl+lbl> 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,~
$ regional_area          <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,~
$ PrimarioÚltimo         <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
```

4 Processing

4.1 Select

4.2 Filter

4.3 Recode and transform

4.4 Missing values

```
sogedi_db2 <- sogedi_db %>%
  dplyr::select(-c(starts_with("time"), 247:269)) # remove variables of time survey an

n_miss(sogedi_db2) # total of NA's
```

```
[1] 52722
```

```
prop_miss(sogedi_db2)*100 # proportion of NA's
```

```
[1] 5.565055
```

```
miss_var_table(sogedi_db2) %>%
  kable(.,"markdown")
```

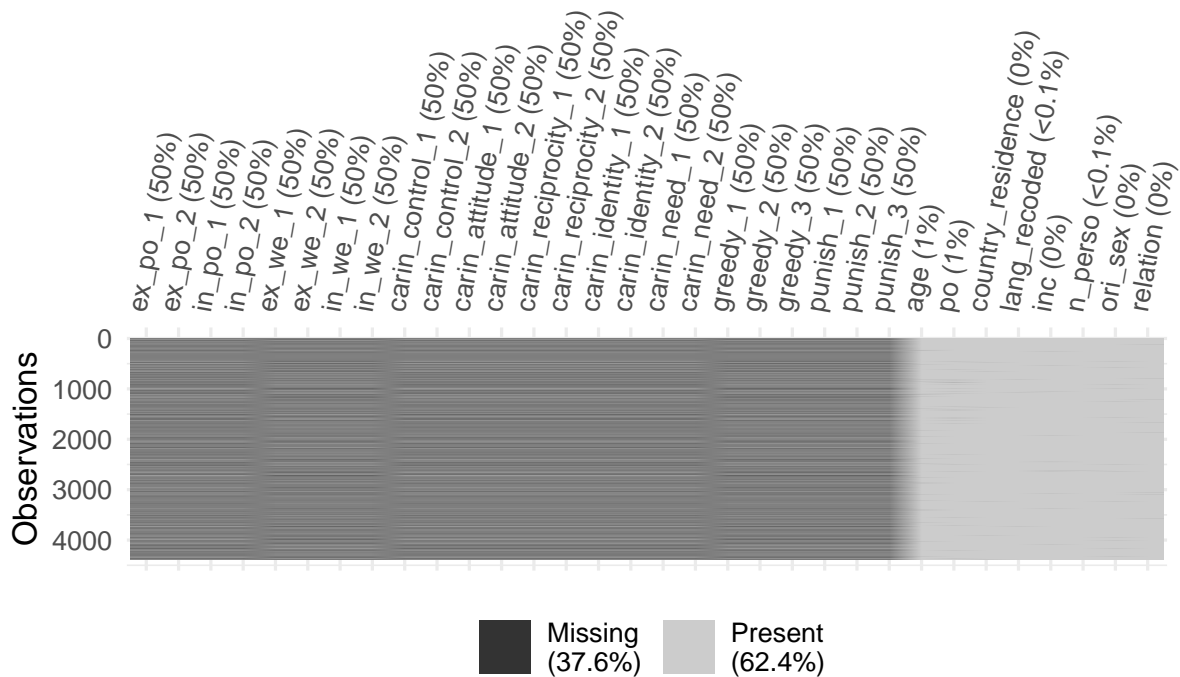| n_miss_in_var	n_vars	pct_vars
0	184	85.185185

9

n_miss_in_var	n_vars	pct_vars
1	1	0.462963
3	1	0.462963
6	1	0.462963
8	1	0.462963
10	1	0.462963
13	1	0.462963
24	1	0.462963
25	1	0.462963
2193	24	11.111111

```r
miss_var_summary(sogedi_db2) %>%
  filter(pct_miss > 0) %>%
  kable(.,"markdown")
```

variable	n_miss	pct_miss
ex_po_1	2193	50
ex_po_2	2193	50
in_po_1	2193	50
in_po_2	2193	50
ex_we_1	2193	50
ex_we_2	2193	50
in_we_1	2193	50
in_we_2	2193	50
carin_control_1	2193	50
carin_control_2	2193	50
carin_attitude_1	2193	50
carin_attitude_2	2193	50
carin_reciprocity_1	2193	50
carin_reciprocity_2	2193	50
carin_identity_1	2193	50
carin_identity_2	2193	50
carin_need_1	2193	50
carin_need_2	2193	50
greedy_1	2193	50
greedy_2	2193	50
greedy_3	2193	50
punish_1	2193	50

variable	n_miss	pct_miss
punish_2	2193	50
punish_3	2193	50
po	25	0.570
age	24	0.547
ori_sex	13	0.296
inc	10	0.228
relation	8	0.182
country_residence	6	0.137
lang_recoded	3	0.0684
n_perso	1	0.0228

```
sogedi_db2 %>%
  select(where(~ any(is.na(.)))) %>% # only variables with NA's, this change the total
  vis_miss(., warn_large_data = F) +
  theme(axis.text.x = element_text(angle=80))
```

5 Save and export