

Analysis of Kenyan Social Values from World Values Survey

Installing packages

```
#install.packages("tidyverse")
#install.packages("gtsummary")
#install.packages("gt")
#install.packages("here")
#install.packages("usethis")
```

Libraries

```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.1      v stringr    1.6.0
v ggplot2    4.0.0      v tibble     3.3.0
v lubridate  1.9.4      v tidyr      1.3.1
v purrr      1.2.0
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

```
library(gtsummary)
library(gt)
library(here)
```

here() starts at /Users/johnmusalia/Documents/git-demo

```
library(usethis)
```

Reading Data

```
wvs <- read_csv(here("Data","WVS.csv"))
```

Rows: 94278 Columns: 606

-- Column specification -----

Delimiter: ","

chr (12): version, doi, B_COUNTRY_ALPHA, C_COW_ALPHA, LNGE_ISO, X002_02B, V...

dbl (594): A_WAVE, A_YEAR, A_STUDY, B_COUNTRY, C_COW_NUM, D_INTERVIEW, S007,...

i Use `spec()` to retrieve the full column specification for this data.

i Specify the column types or set `show_col_types = FALSE` to quiet this message.

```
wvs <- rename_with(wvs, tolower)
#wvs <- wvs |>
# mutate(across(everything(), ~replace(., .x < 0, NA)))
wvs |> count(q1)
```

A tibble: 7 x 2

	q1	n
	<dbl>	<int>
1	-5	67
2	-2	61
3	-1	27
4	1	84694
5	2	8315
6	3	896
7	4	218

Checking what kind of variables to work on

```

wvs <- wvs |>
  filter(b_country_alpha == "KEN") |>
  mutate(sex = ifelse(q260 == 1, "Male", "Female"),
    Friends = case_when(q2 == 1 ~ "Very Important",
      q2 == 2 ~ "Rather Important",
      q2 == 3 ~ "Not Very Important",
      q2 == 4 ~ "Not at all Important"),
    friends = factor(q2,
      levels = c(1,2,3,4),
      labels = c("Very Important",
        "Rather Important",
        "Not Very Important",
        "Not at all Important")),
    leisure = factor(q3,
      levels = c(1,2,3,4),
      labels = c("Very Important",
        "Rather Important",
        "Not Very Important",
        "Not at all Important")),
    politics = factor(q4,
      levels = c(1,2,3,4),
      labels = c("Very Important",
        "Rather Important",
        "Not Very Important",
        "Not at all Important")),
    work = factor(q5,
      levels = c(1,2,3,4),
      labels = c("Very Important",
        "Rather Important",
        "Not Very Important",
        "Not at all Important")),
    religion = factor(q6,
      levels = c(1,2,3,4),
      labels = c("Very Important",
        "Rather Important",
        "Not Very Important",
        "Not at all Important")),
    residence = factor(h_urbrural,
      levels = c(1,2),
      labels = c("Urban", "Rural")),
    happy = factor(q46,
      levels = c(1,2,3,4),

```

```

                                labels = c("Very Happy",
                                             "Quite Happy",
                                             "Not Very Happy",
                                             "Not at all Happy"))
                                )
wvs |> count(Friends)

```

```

# A tibble: 5 x 2
  Friends          n
  <chr>          <int>
1 " Not Very Important" 109
2 "Not at all Important"  16
3 "Rather Important"    445
4 "Very Important"      694
5 <NA>                  2

```

```

wvs |> count(leisure)

```

```

# A tibble: 5 x 2
  leisure          n
  <fct>          <int>
1 Very Important  602
2 Rather Important 393
3 Not Very Important 221
4 Not at all Important 46
5 <NA>            4

```

```

wvs |> count(politics)

```

```

# A tibble: 5 x 2
  politics          n
  <fct>          <int>
1 Very Important  296
2 Rather Important 276
3 Not Very Important 377
4 Not at all Important 298
5 <NA>            19

```

```
wvs |> count(work)
```

```
# A tibble: 5 x 2
  work          n
  <fct>      <int>
1 Very Important 1128
2 Rather Important 103
3 Not Very Important 21
4 Not at all Important 13
5 <NA>          1
```

```
wvs |> count(religion)
```

```
# A tibble: 5 x 2
  religion          n
  <fct>      <int>
1 Very Important 1097
2 Rather Important 110
3 Not Very Important 39
4 Not at all Important 19
5 <NA>          1
```

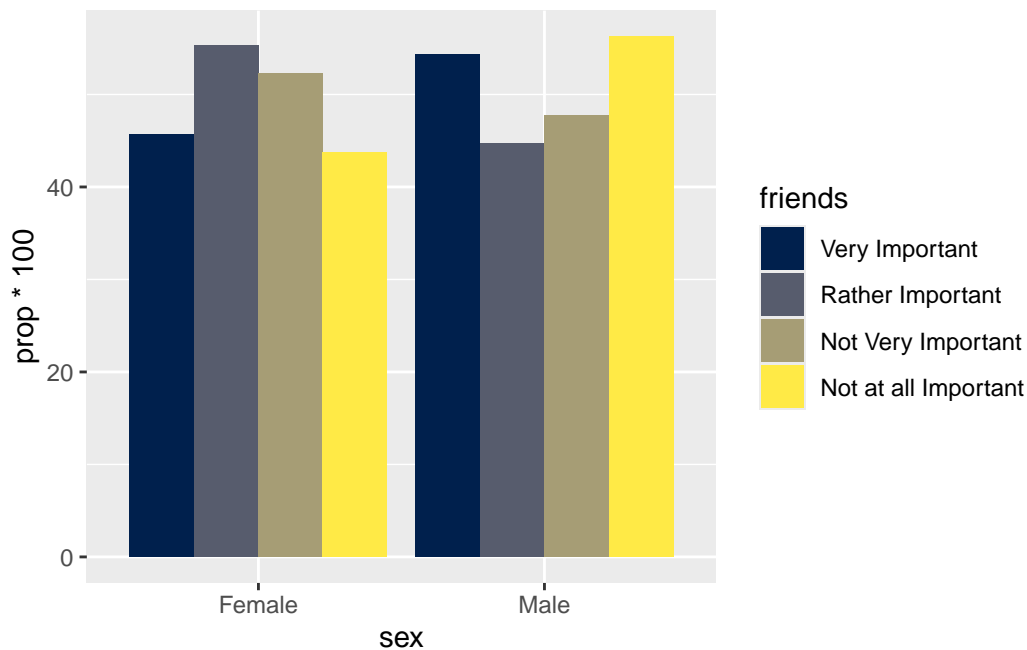
```
wvs |> count(residence)
```

```
# A tibble: 2 x 2
  residence    n
  <fct>    <int>
1 Urban    719
2 Rural    547
```

```
wvs |> count(happy)
```

```
# A tibble: 5 x 2
  happy          n
  <fct>      <int>
1 Very Happy  634
2 Quite Happy 415
3 Not Very Happy 170
4 Not at all Happy 34
5 <NA>        13
```

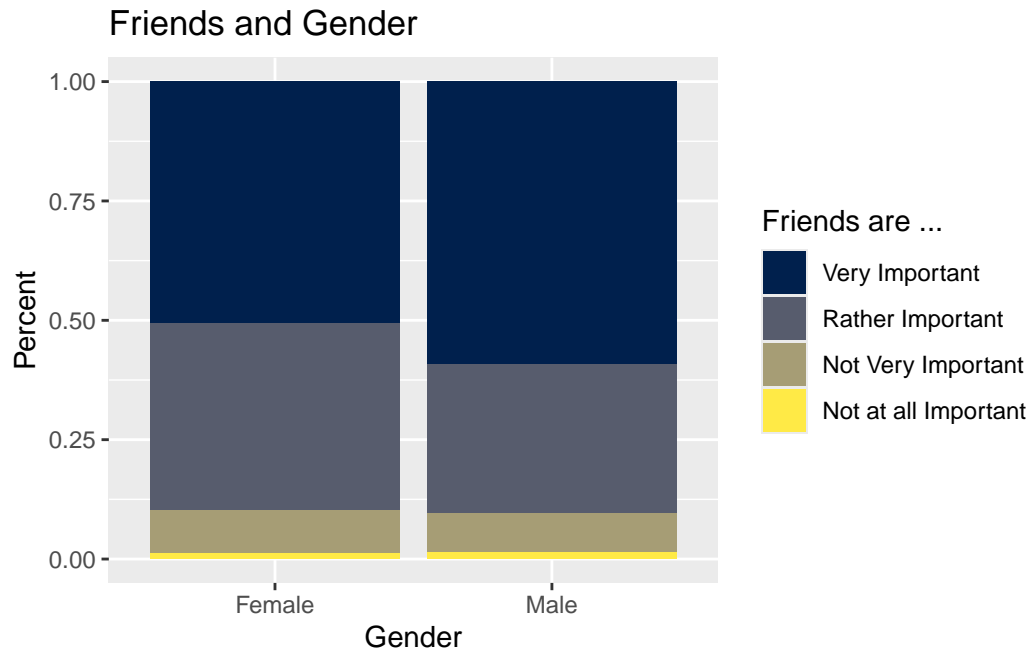
```
#Friends
wvs |>
  drop_na(sex, Friends) |>
  ggplot(aes(x=sex,
              y =after_stat(prop*100), group= friends, fill=friends)) +
  geom_bar(position = "dodge") +
  scale_fill_viridis_d(option="E")
```



```
#wvs |> count(q260)
```

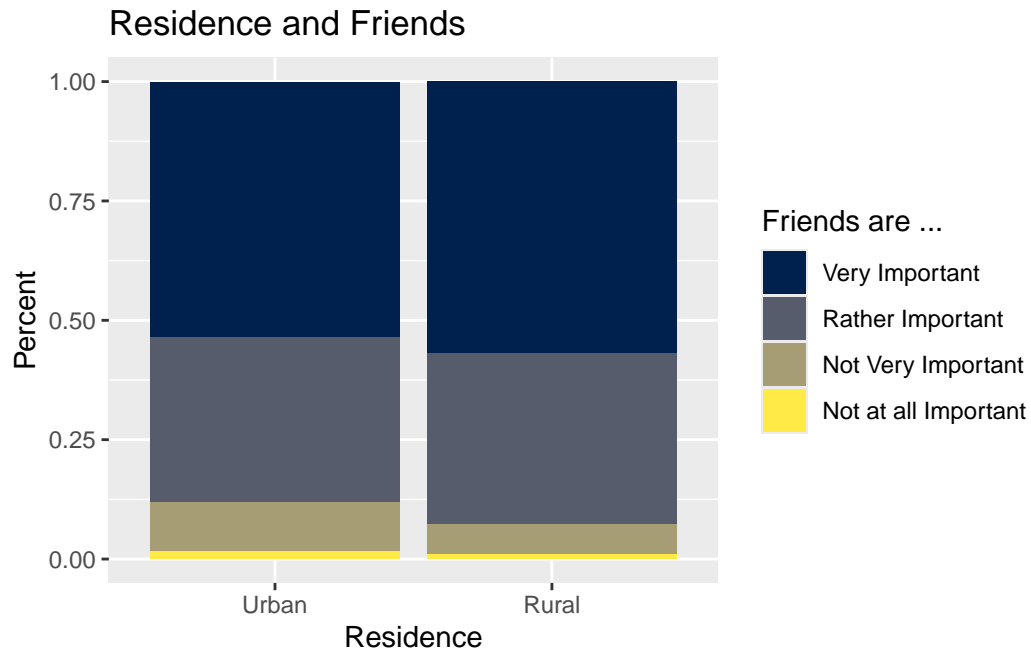
Friends

```
wvs |>
  drop_na(sex, friends) |>
  ggplot(aes(x = sex, fill = friends)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Friends and Gender",
       y = "Percent",
       x = "Gender",
       fill = "Friends are ...")
```



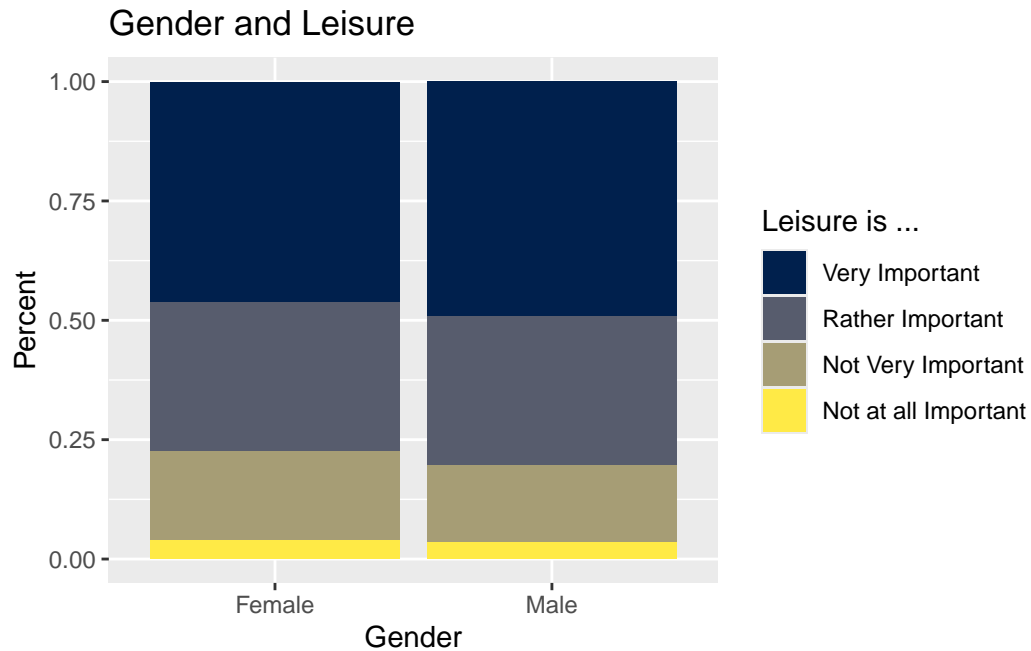
Friends by Residence

```
wvs |>
  drop_na(residence, friends) |>
  ggplot(aes(x = residence, fill = friends)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Residence and Friends",
       y = "Percent",
       x = "Residence",
       fill = "Friends are ...")
```



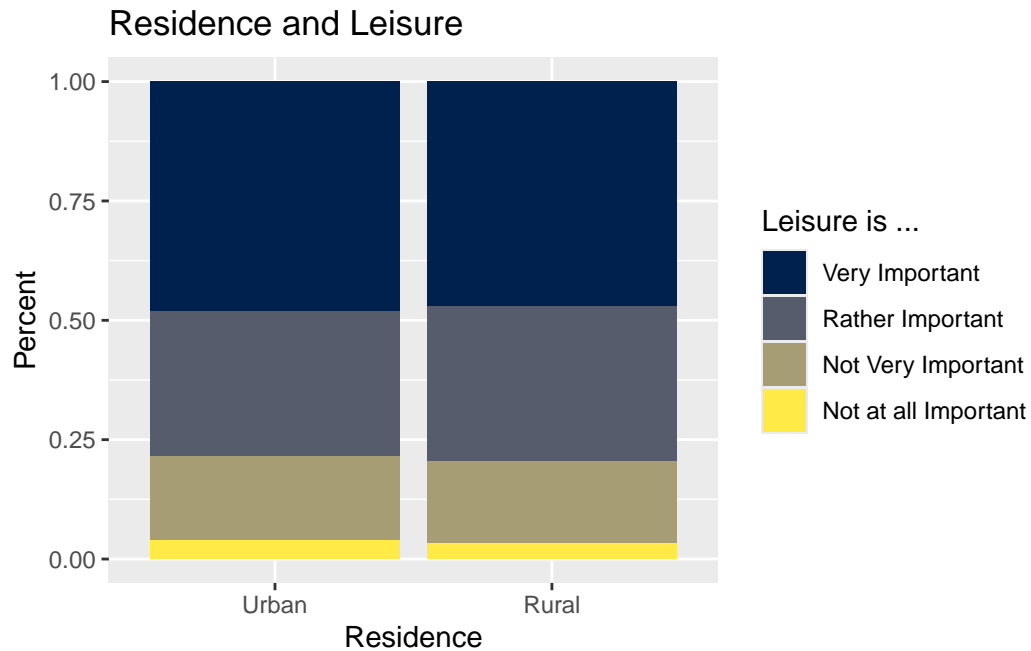
Leisure

```
wvs |>
  drop_na(sex, leisure) |>
  ggplot(aes(x = sex, fill = leisure)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Gender and Leisure",
    y = "Percent",
    x = "Gender",
    fill = "Leisure is ...")
```

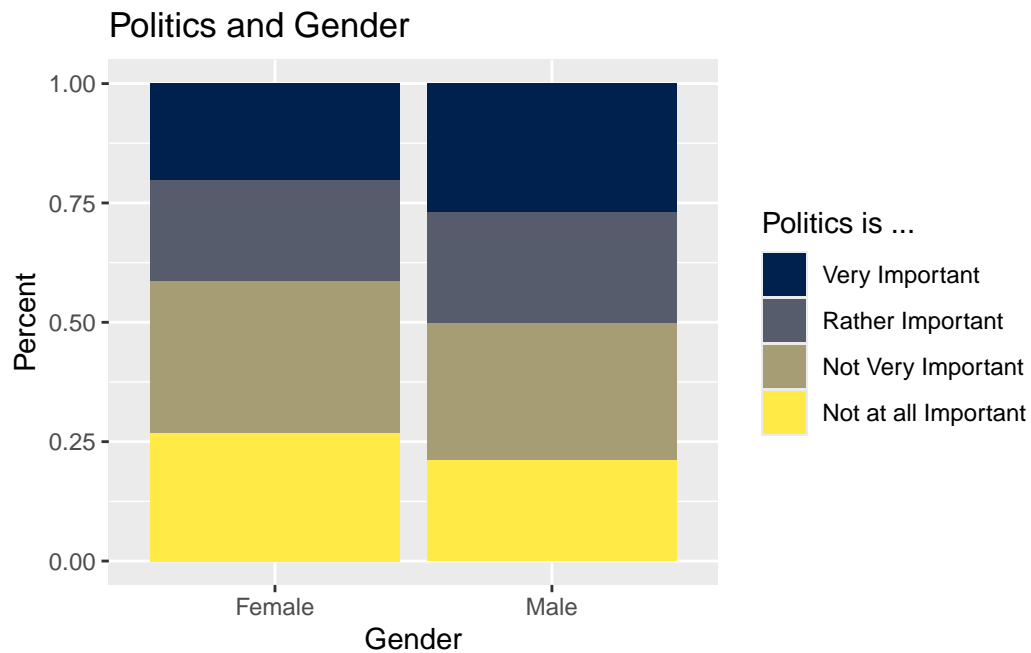
Leisure with Residence

```
wvs |>
  drop_na(residence, leisure) |>
  ggplot(aes(x = residence, fill = leisure)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Residence and Leisure",
       y = "Percent",
       x = "Residence",
       fill = "Leisure is ...")
```



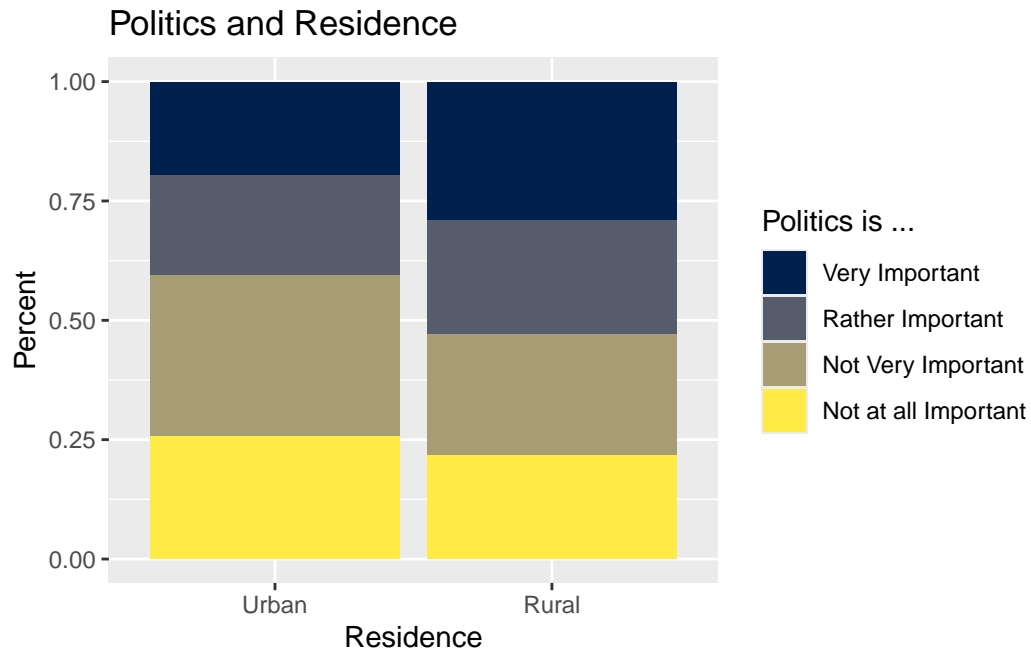
Politics

```
wvs |>
  drop_na(sex, politics) |>
  ggplot(aes(x = sex, fill = politics)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Politics and Gender",
       y = "Percent",
       x = "Gender",
       fill = "Politics is ...")
```



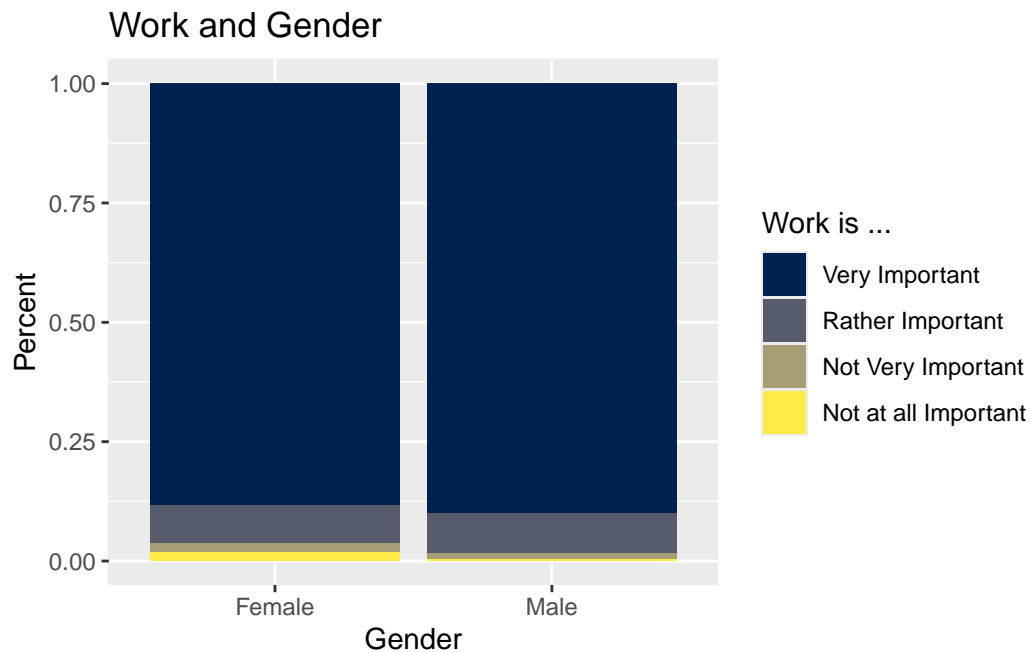
Politics and Residence

```
wvs |>
  drop_na(residence, politics) |>
  ggplot(aes(x = residence, fill = politics)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Politics and Residence",
       y = "Percent",
       x = "Residence",
       fill = "Politics is ...")
```



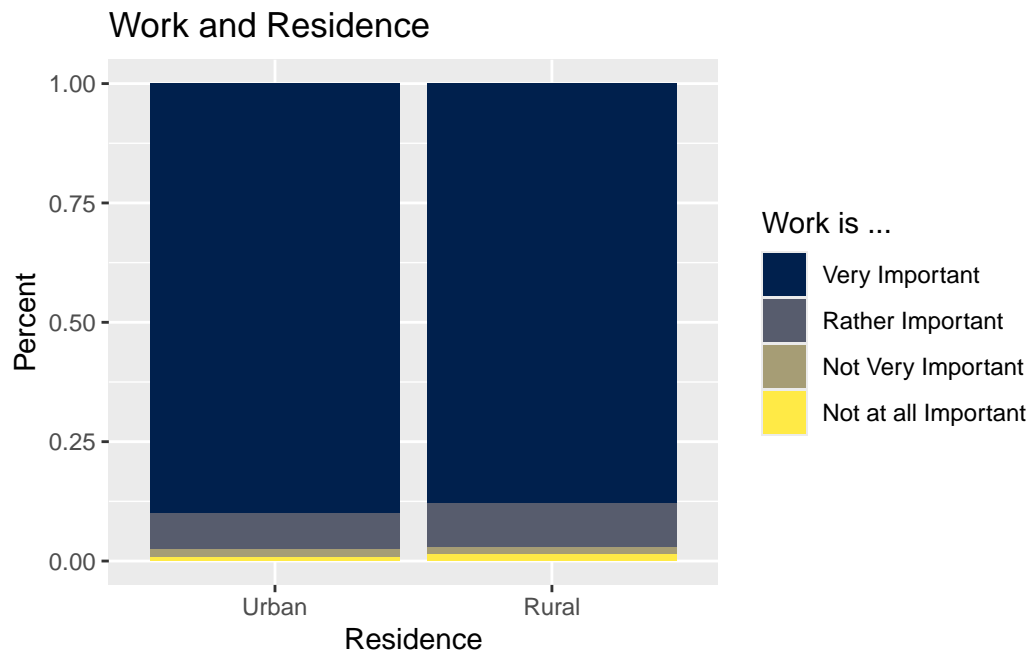
Work

```
wvs |>
  drop_na(sex, work) |>
  ggplot(aes(x = sex, fill = work)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Work and Gender",
    y = "Percent",
    x = "Gender",
    fill = "Work is ...")
```



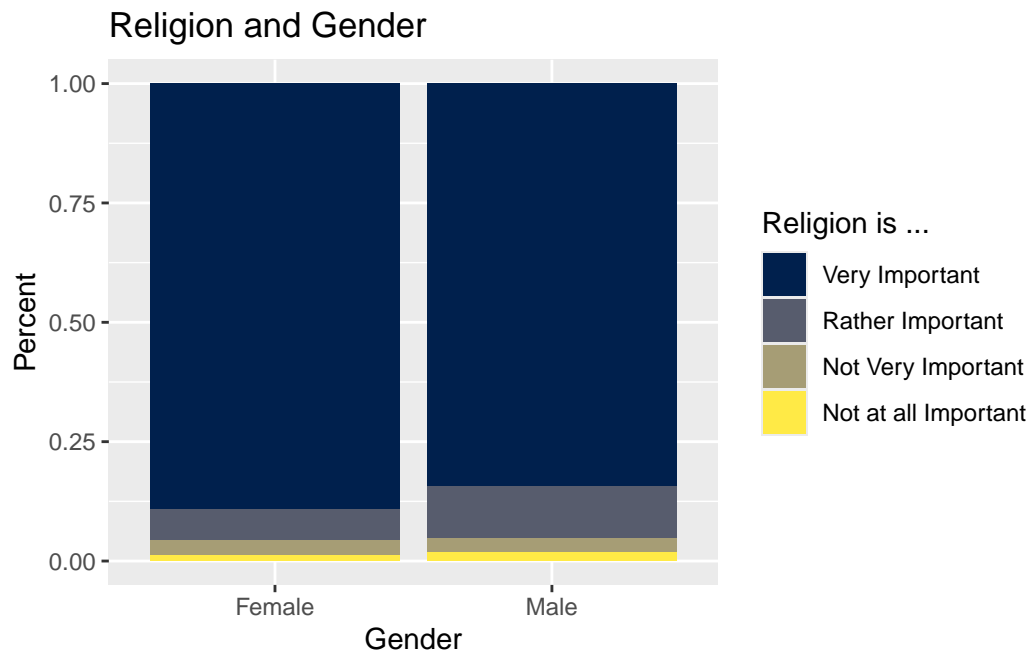
Work and Residence

```
wvs |>
  drop_na(residence, work) |>
  ggplot(aes(x = residence, fill = work)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Work and Residence",
    y = "Percent",
    x = "Residence",
    fill = "Work is ...")
```



Religion

```
wvs |>
  drop_na(sex, religion) |>
  ggplot(aes(x = sex, fill = religion)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Religion and Gender",
       y = "Percent",
       x = "Gender",
       fill = "Religion is ...")
```



Religion and Residence

```
wvs |>
  drop_na(residence, religion) |>
  ggplot(aes(x = residence, fill = religion)) +
  geom_bar(position = "fill") +
  scale_fill_viridis_d(option = "E") +
  labs(title = "Religion and Residence",
       y = "Percent",
       x = "Residence",
       fill = "Religion is ...")
```

