

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
vforcats    1.0.1     v stringr   1.6.0
v ggplot2   4.0.0     v tibble    3.3.0
v lubridate 1.9.4     v tidyrr    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 non-conflicting
```

```
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
```

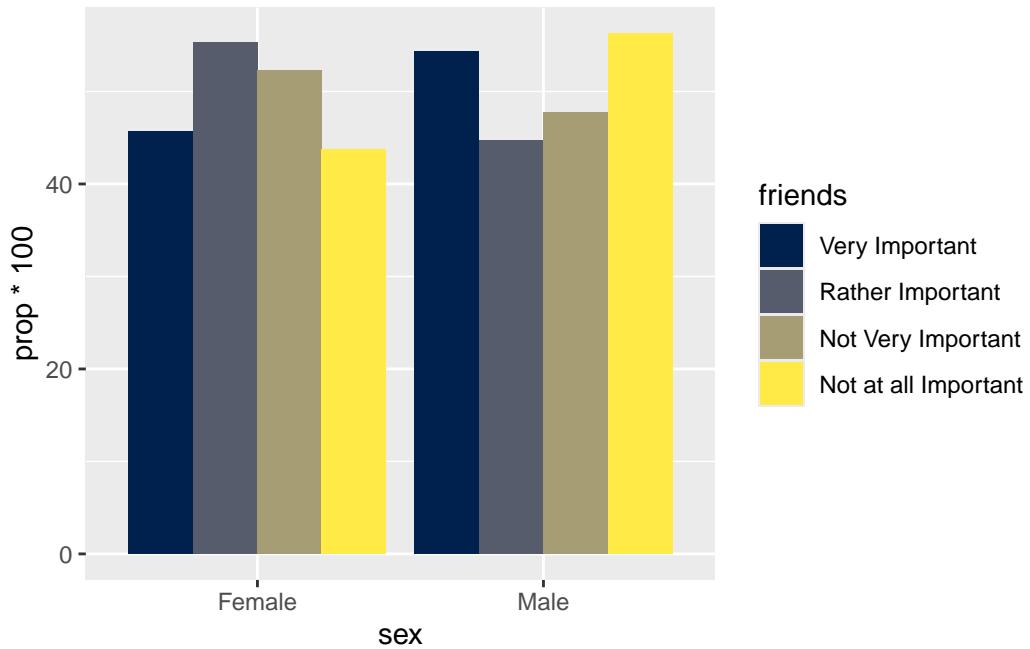
```
wvs |> count(residence)
```

```
# 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")
```

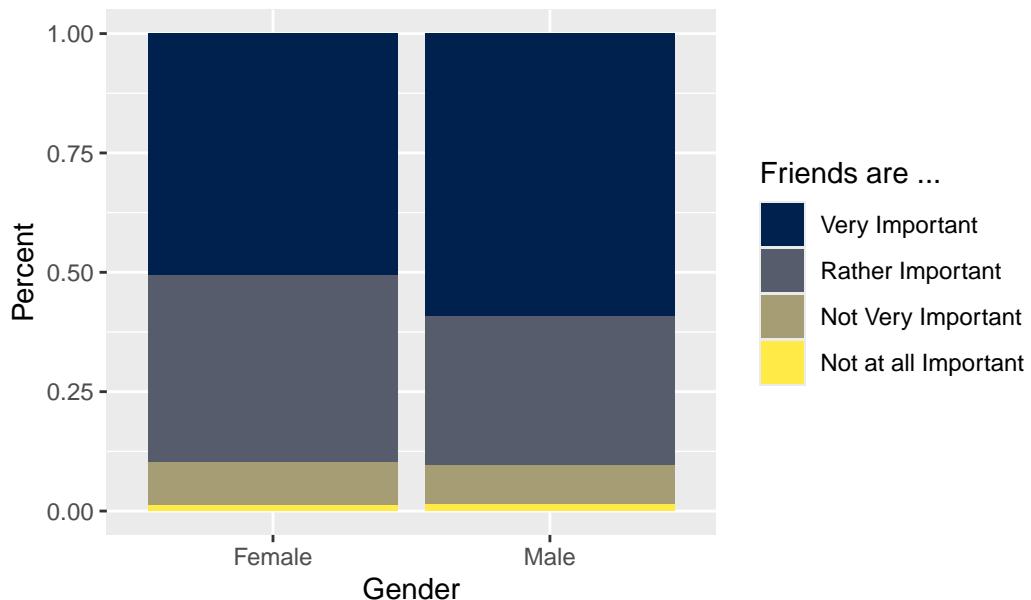


```
#wvs |> count(q260)
```

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 ...")
```

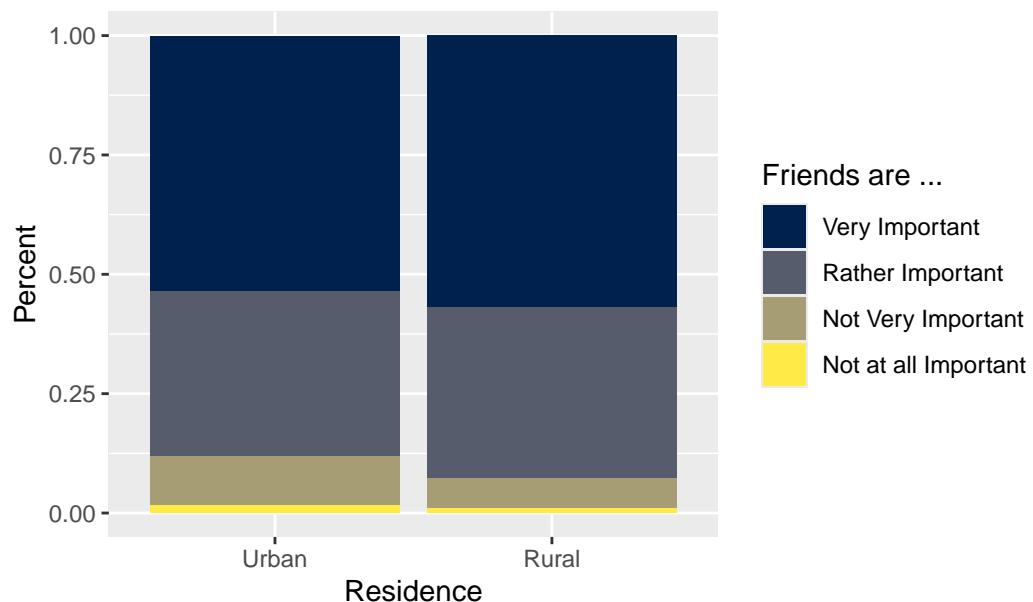
Friends and Gender



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 ...")
```

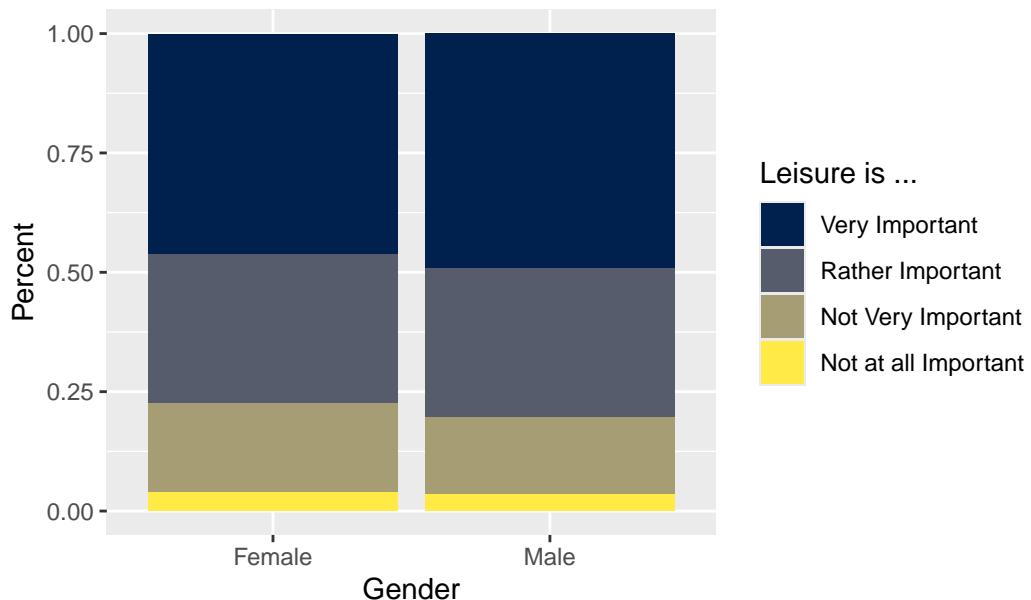
Residence and Friends



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 ...")
```

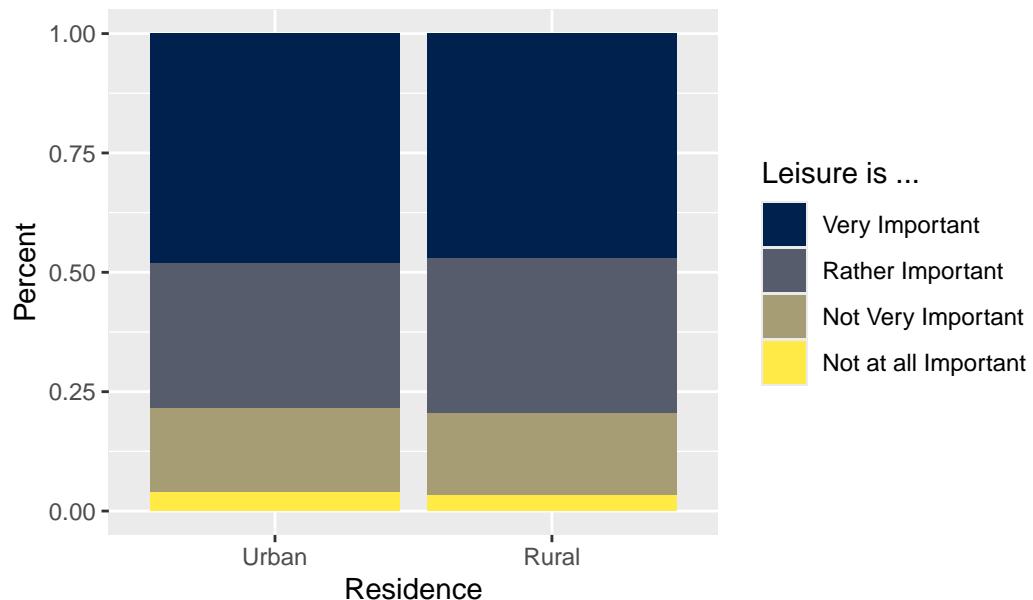
Gender and Leisure



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 ...")
```

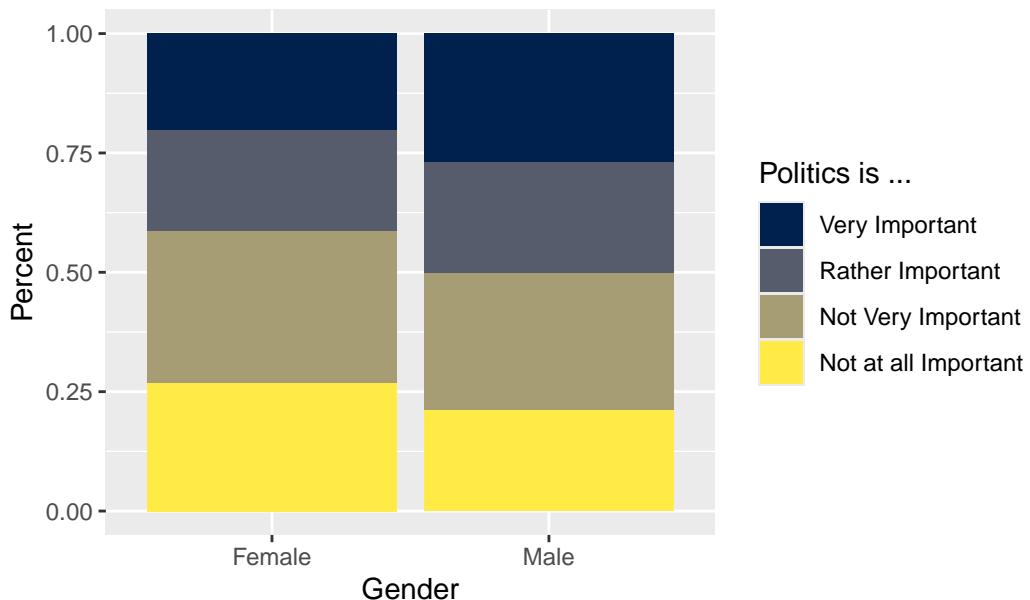
Residence and Leisure



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 ...")
```

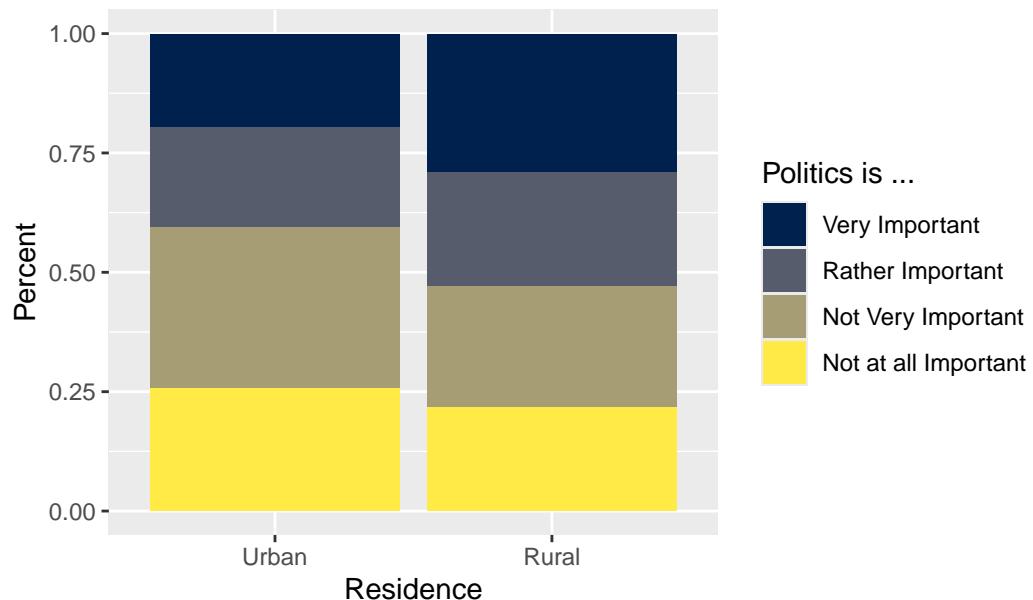
Politics and Gender



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 ...")
```

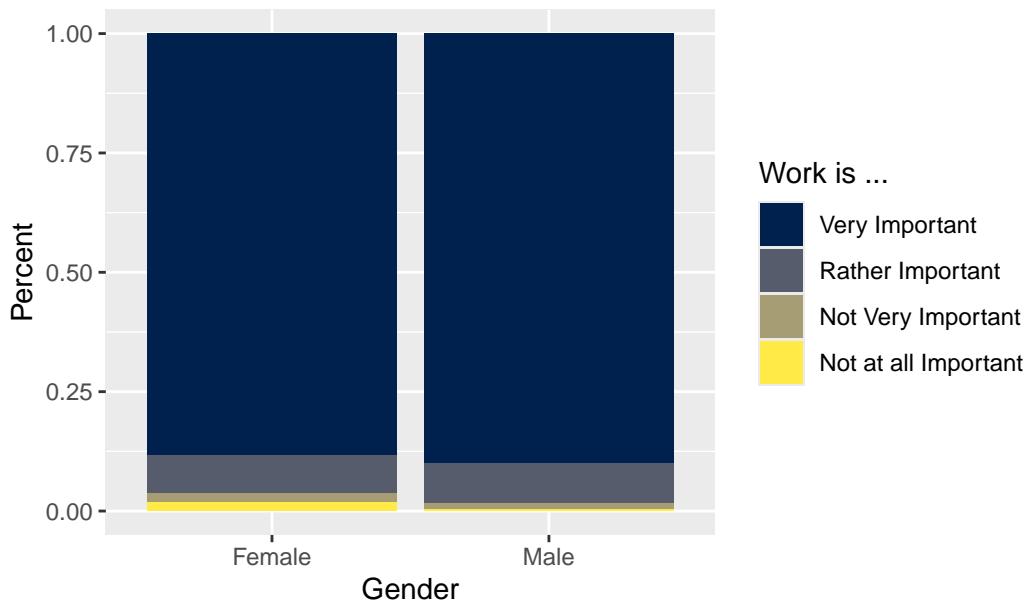
Politics and Residence



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 ...")
```

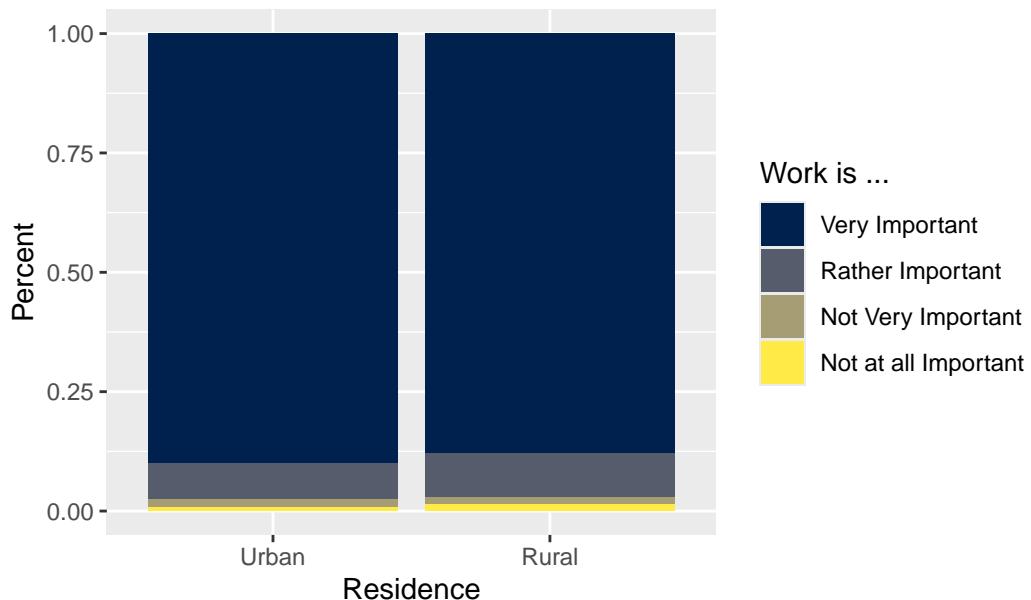
Work and Gender



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 ...")
```

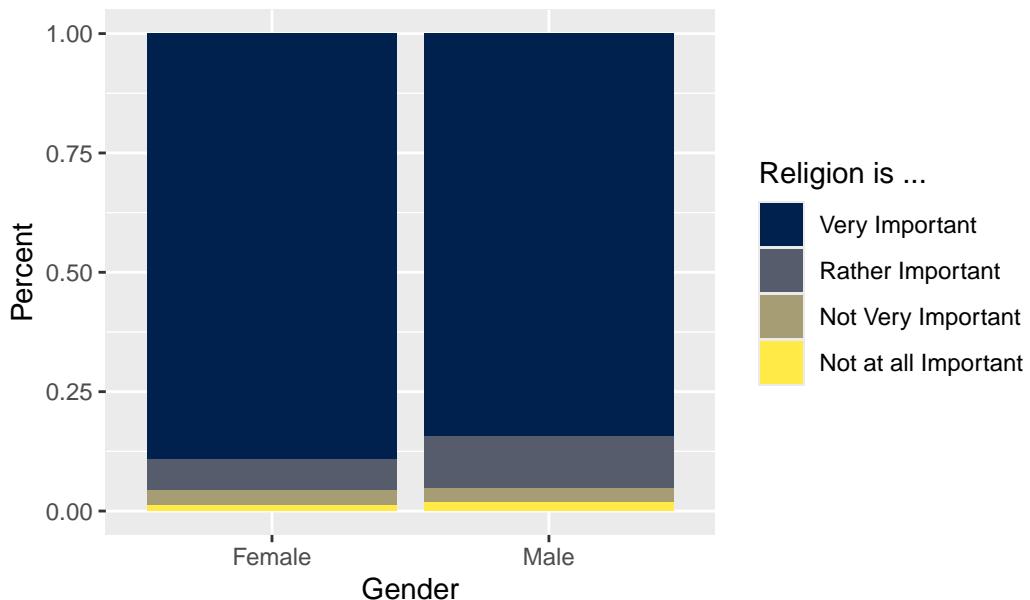
Work and Residence



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 Gender



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 ...")
```

Religion and Residence

