DHS_graph

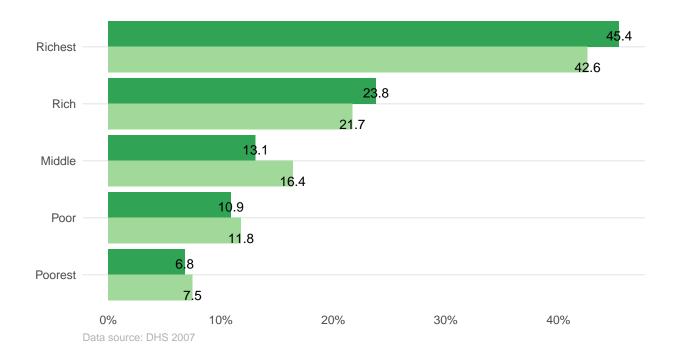
Shan Jiang 9/13/2019

Contents

```
0.1
    Table 1: Bar plot
library(tidyverse)
## -- Attaching packages ----- tidyverse 1.2.1 --
## v ggplot2 3.2.0
                  v purrr
                           0.3.2
                v purrr
v dplyr
## v tibble 2.1.3
                          0.8.3
## v tidyr 0.8.3 v stringr 1.4.0
## v readr
         1.3.1
                 v forcats 0.4.0
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                 masks stats::lag()
library(ggplot2)
df1 = readxl::read_xlsx("./DHS/DHS_dv.xlsx", sheet = "table1")
df1 = df1 %>% filter(Percentage != "N")
# Draw plot
ggplot(df1, aes(fill= factor(Status), y=Percentage, x= reorder(Wealth, Percentage))) +
   geom_bar(position="dodge", stat="identity") +
    scale_y_continuous(labels = function(x) paste0(x, "%")) +
    coord_flip() +
    labs(title="Wealth Index by Migration Status",
    subtitle="Urban Residents VS. Rural-Urban Migrants",
    caption="Data source: DHS 2007") + scale fill manual(values = c("#a1d99b", "#31a354")) +
    geom_text(aes(label = round(Percentage, 1)), position = position_dodge(1.1),
              vjust = 1.0, color = "black", size = 3.4) +
    theme(axis.text.x = element text(angle=45, vjust=0.6)) +
    theme minimal() +
      theme(axis.title = element_blank(),
           panel.grid.major.x = element_blank(),
           panel.grid.minor = element_blank(),
```

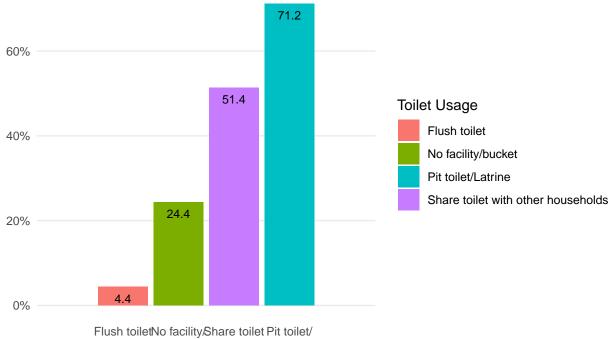
Wealth Index by Migration Status

Urban Residents VS. Rural-Urban Migrants



0.2 Table 3: Lollipop plot

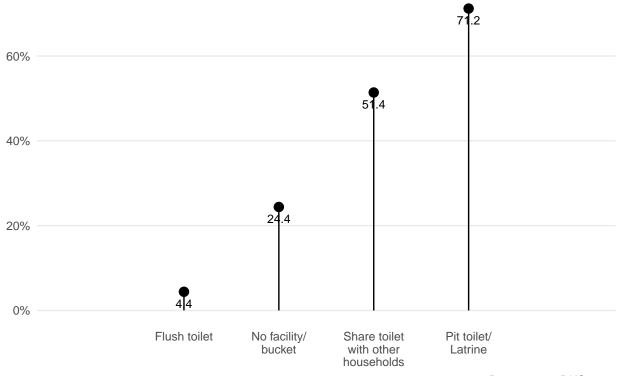
Types of Toilet Facilities in Bangladesh



bucket with other Latrine households

Data source: DHS 2007

Types of Toilet Facilities in Bangladesh



Data source: DHS 2007

0.3 Table 6: Types of Toilet Facilities in Bangladesh by barplot

```
library(tidyverse)
library(viridis)
```

Loading required package: viridisLite

```
library(gridExtra)
##
## Attaching package: 'gridExtra'
## The following object is masked from 'package:dplyr':
##
##
       combine
library(ggrepel)
library(plotly)
##
## Attaching package: 'plotly'
## The following object is masked from 'package:ggplot2':
##
##
       last_plot
## The following object is masked from 'package:stats':
##
##
       filter
## The following object is masked from 'package:graphics':
##
##
       layout
df3 = readxl::read_xlsx("./DHS/DHS_dv.xlsx", sheet = "table6")
# Plot
ggplot(df3, aes(x= City, y= Percentage)) +
    geom_point(aes(color = Toilet, size = Percentage), alpha=0.5) +
    scale_color_manual(values = c("#00AFBB", "#E7B800", "#FC4E07")) +
   scale_size(range = c(1.5, 14), name="Percentage (%)") +
   theme(legend.position="right") +
   labs(title="Types of Toilet Facilities in Bangladesh",
         caption="Data source: DHS 2007") +
   geom_text(aes(label = round(Percentage, 1)), position = position_dodge(1.1),
                  vjust = 1.0, color = "black", size = 2.2) +
        theme_minimal()
```

Types of Toilet Facilities in Bangladesh



Data source: DHS 2007

Warning: position_dodge requires non-overlapping x intervals

Types of Toilet Facilities in Bangladesh

