

paper*

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Abstract

Four sentences

1 Introduction

2 Data

```
## # A tibble: 7 x 2
##   character      sum
##   <fct>         <dbl>
## 1 Residence     3565
## 2 Region        3566
## 3 Mother's_education 3565
## 4 Work_status   3564
## 5 Occupation    3565
## 6 Employment_status 3563
## 7 Total         3564
```

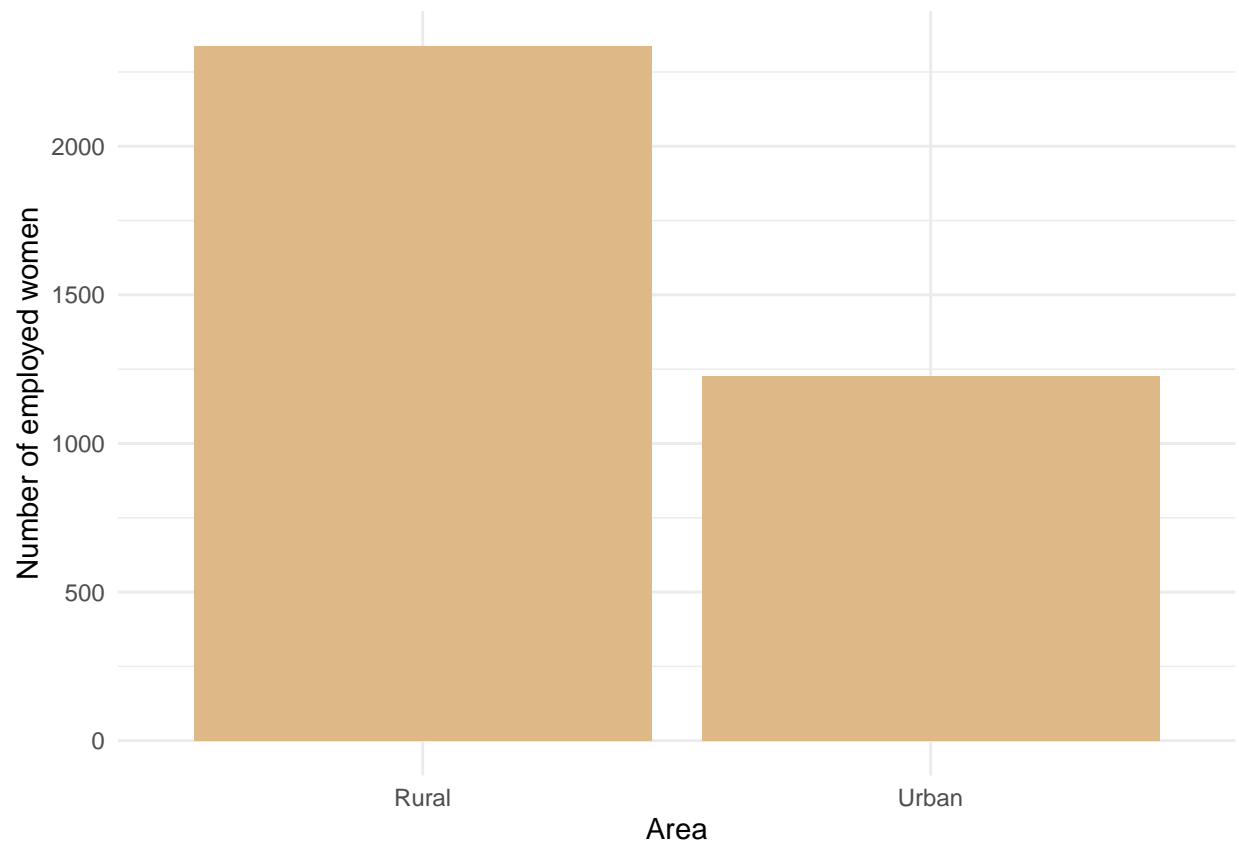
Table ?? shows that 3,566 participated the survey, but there are 3 whom did not answer their employment status, etc.

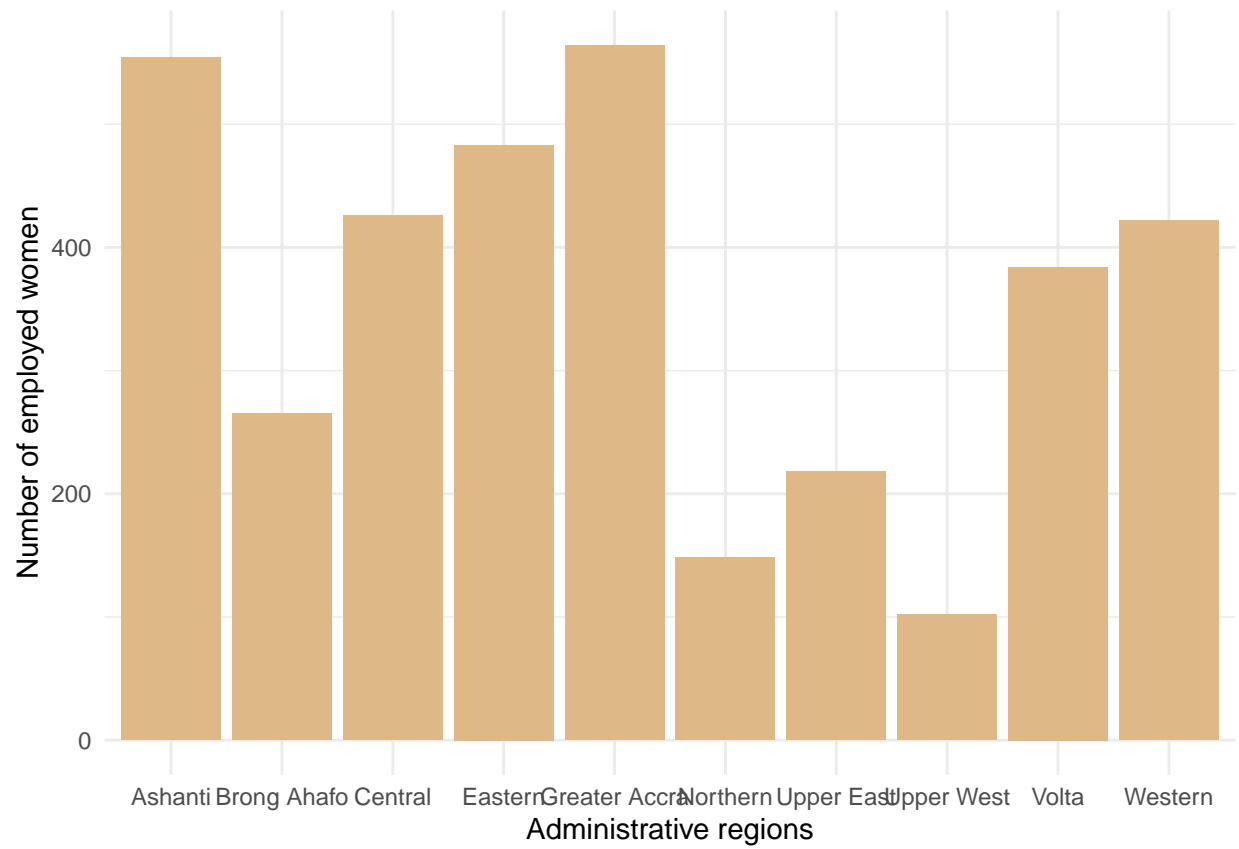
*Code and data are available at: https://github.com/Pascal-304/dhs_analysis.

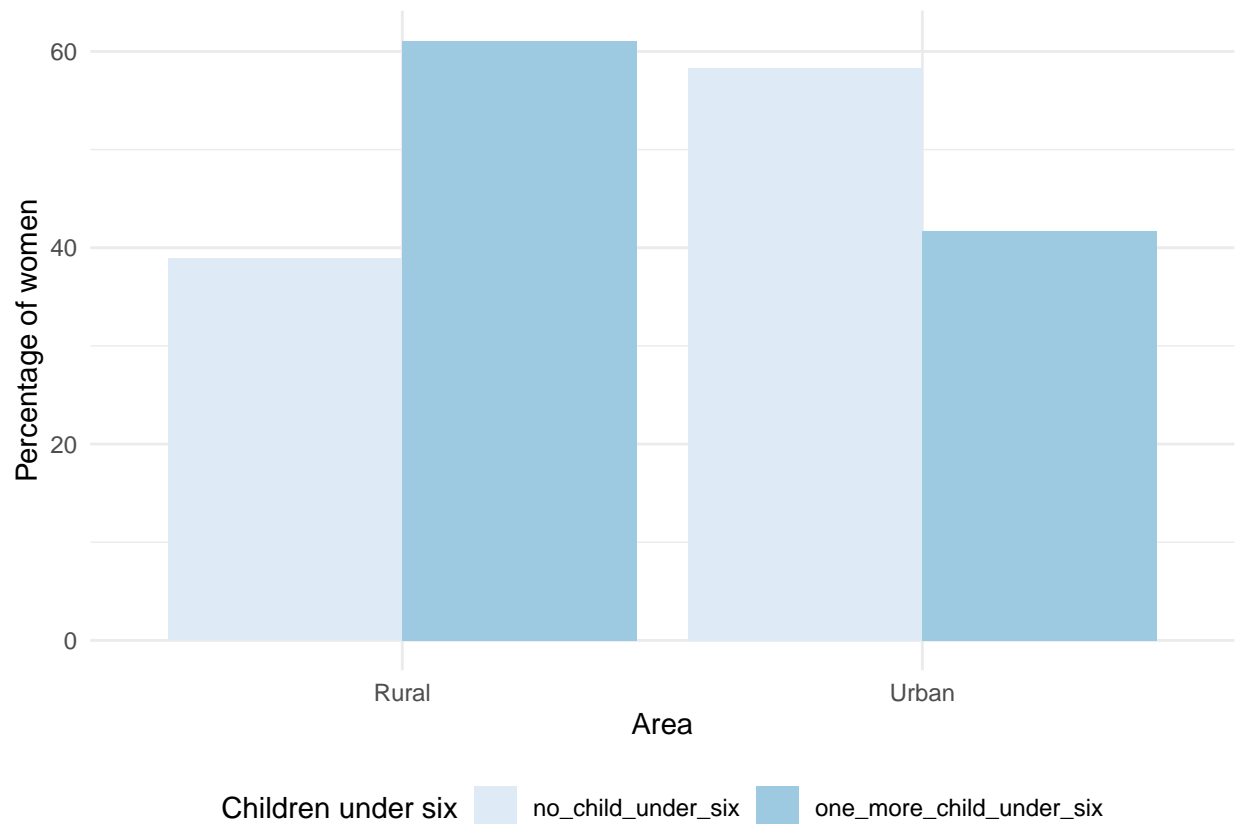
Table 1: A subset of key features

Background	No child under six	1+ child under six	Child's caretaker - respondent	Character
Urban	58.3	41.7	42.7	Residence
Rural	38.9	61.1	49.4	Residence
Western	44.2	55.8	63.6	Region
Central	47.5	52.5	59.7	Region
Greater_Accra	60.8	39.2	39.7	Region
Volta	42.9	57.1	46.1	Region
Eastern	44.8	55.2	44.1	Region
Ashanti	42.1	57.9	40.5	Region
Brong_Ahafo	38.9	61.1	50.0	Region
Northern	35.0	65.0	39.2	Region

3 Results







```
# caretaker aspect

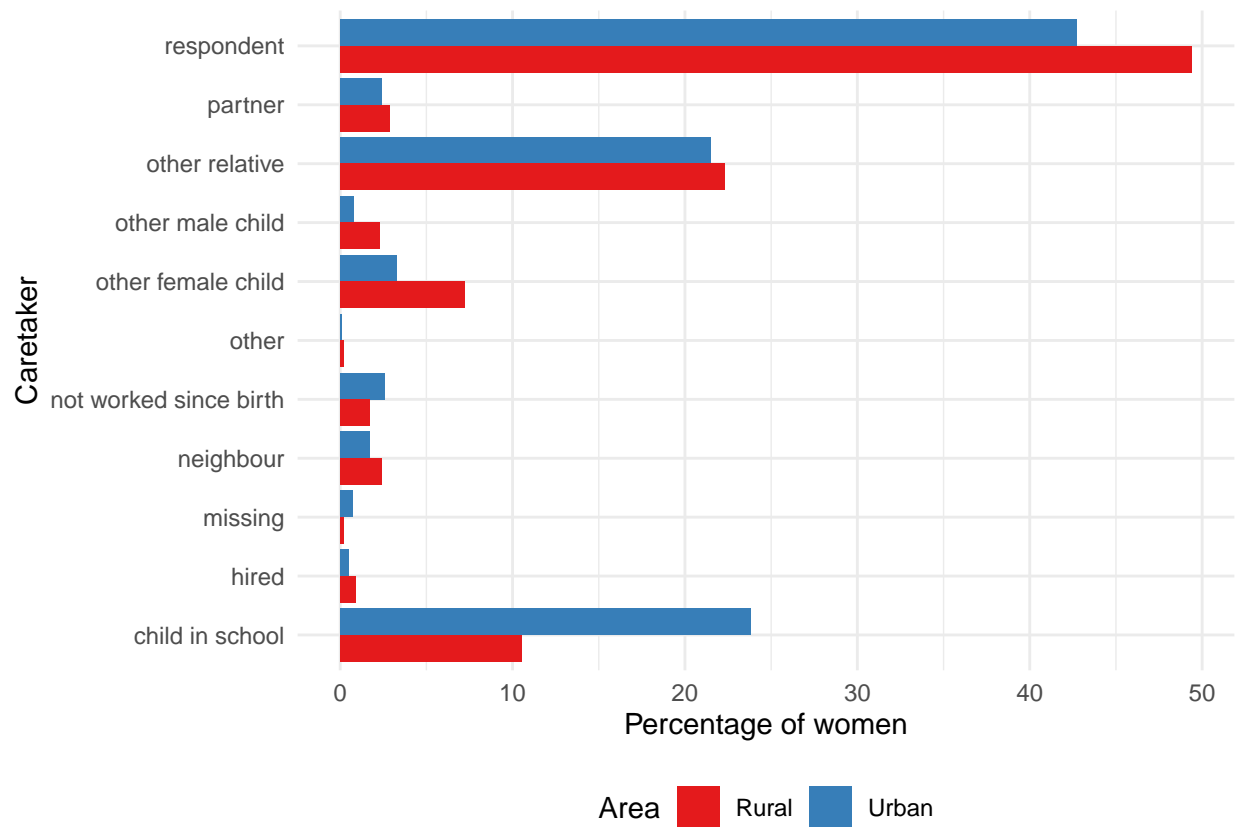
# make dataset into long format
# rename
caretaker <- residence %>%
  select(-c(character, no_child_under_six, one_more_child_under_six, total, number_of_employed_women)) %>%
  pivot_longer(!background, names_to = "caretakers", values_to = "percentage") %>%
  mutate(caretakers = recode(caretakers,
    'caretaker_respondent' = 'respondent',
    'caretaker_partner' = 'partner',
    'caretaker_other_relative' = 'other relative',
    'caretaker_other_male_child' = 'other male child',
    'caretaker_other_female_child' = 'other female child',
    'caretaker_other' = 'other',
    'caretaker_not_worked_since_birth' = 'not worked since birth',
    'caretaker_neighbor' = 'neighbour',
    'caretaker_missing' = 'missing',
    'caretaker_hired' = 'hired',
    'caretaker_child_in_school' = 'child in school'))

# plot bar graph
caretaker %>%
  ggplot(aes(x = caretakers,
    y = percentage,
    fill = background)) +
  geom_bar(stat = 'identity',
```

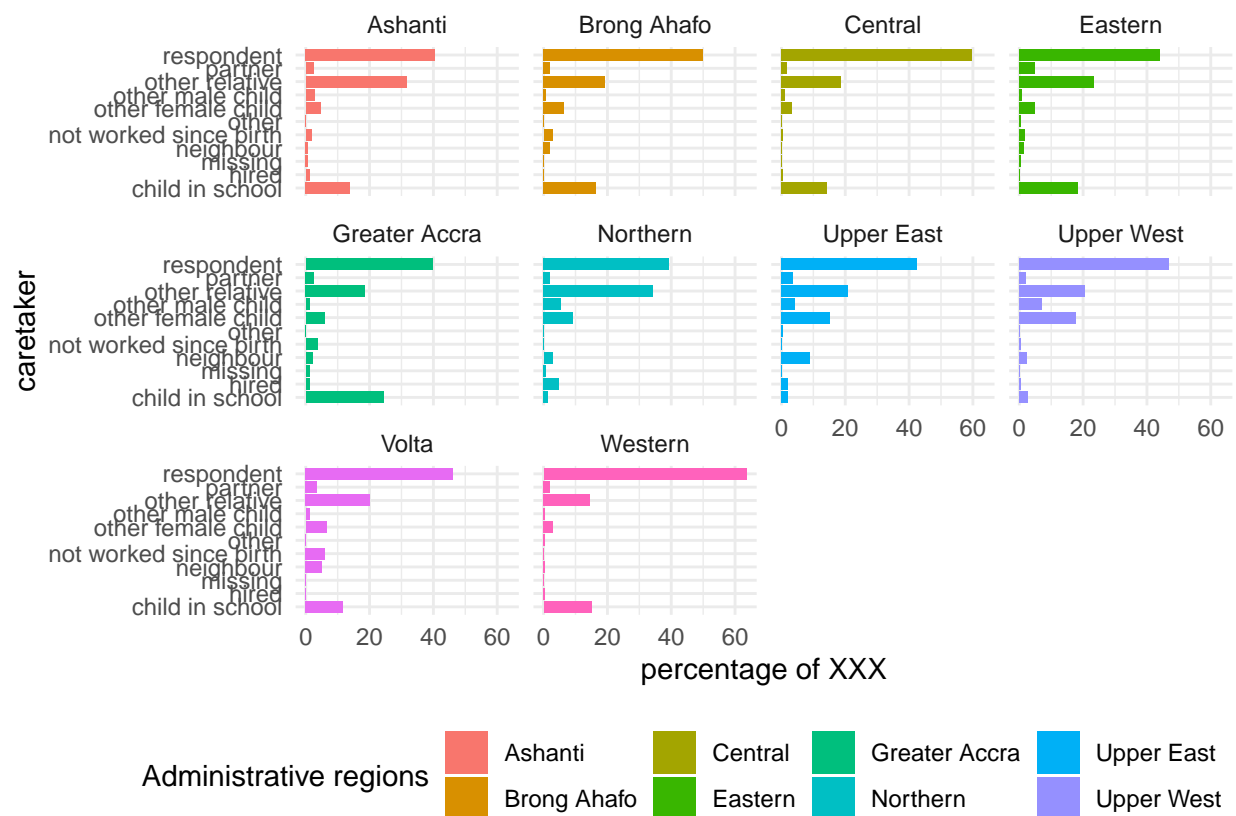
```

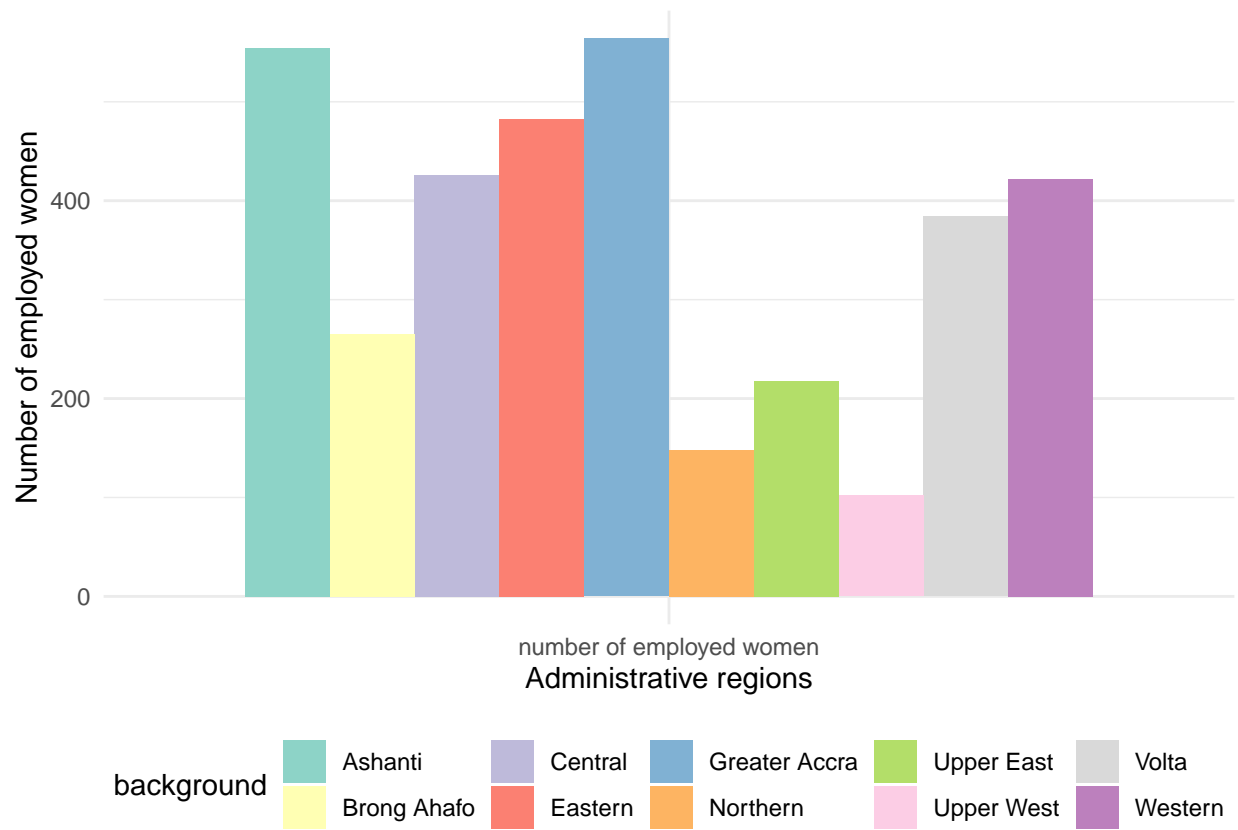
    position = "dodge") +
  labs(x = "Caretaker",
       y = "Percentage of women",
       fill = "Area") +
  theme_minimal() +
  coord_flip() +
  scale_fill_brewer(palette = "Set1") +
  theme(legend.position = "bottom")

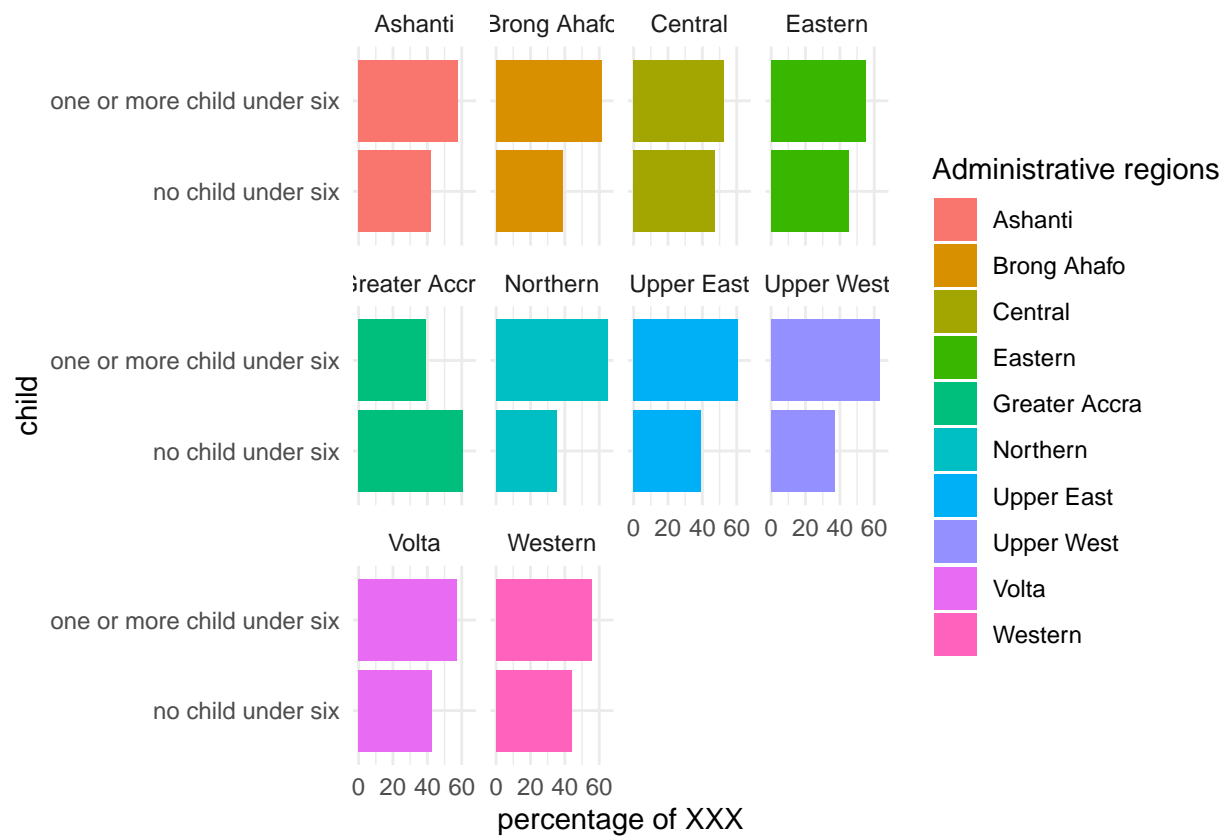
```



3.1 Also comparison among the different administrative regions







4 Discussions

4.1 Limitation and weaknesses

The number does not add up to 100. (truncation error)

5 References