

NISS Data Challenge - Education, Employment, and Earnings

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This document provides an introduction to R Markdown, argues for its benefits, and presents a sample manuscript template intended for an academic audience. I include basic syntax to R Markdown and a minimal working example of how the analysis itself can be conducted within R with the knitr package.

Keywords: pandoc, r markdown, knitr

Introduction

```
library(showtext)
```

```
## Loading required package: sysfonts
```

```
## Loading required package: showtextdb
```

```
font_add_google("Poppins", "Poppins")  
font_add_google("Lora", "Lora")  
showtext_auto()
```

```
order2 <- c("Don't know", "More than a bachelor's degree", "Bachelor's degree",  
            "Associate's degree", "Some college",  
            "High school diploma, equivalent, or less"  
            )
```

```
order <- c("Don't Know", "Other", "Trades and technical", "STEM", "Service",  
           "Military and protective services", "Healthcare", "Education",  
           "Business and Management", "Arts and entertainment")
```

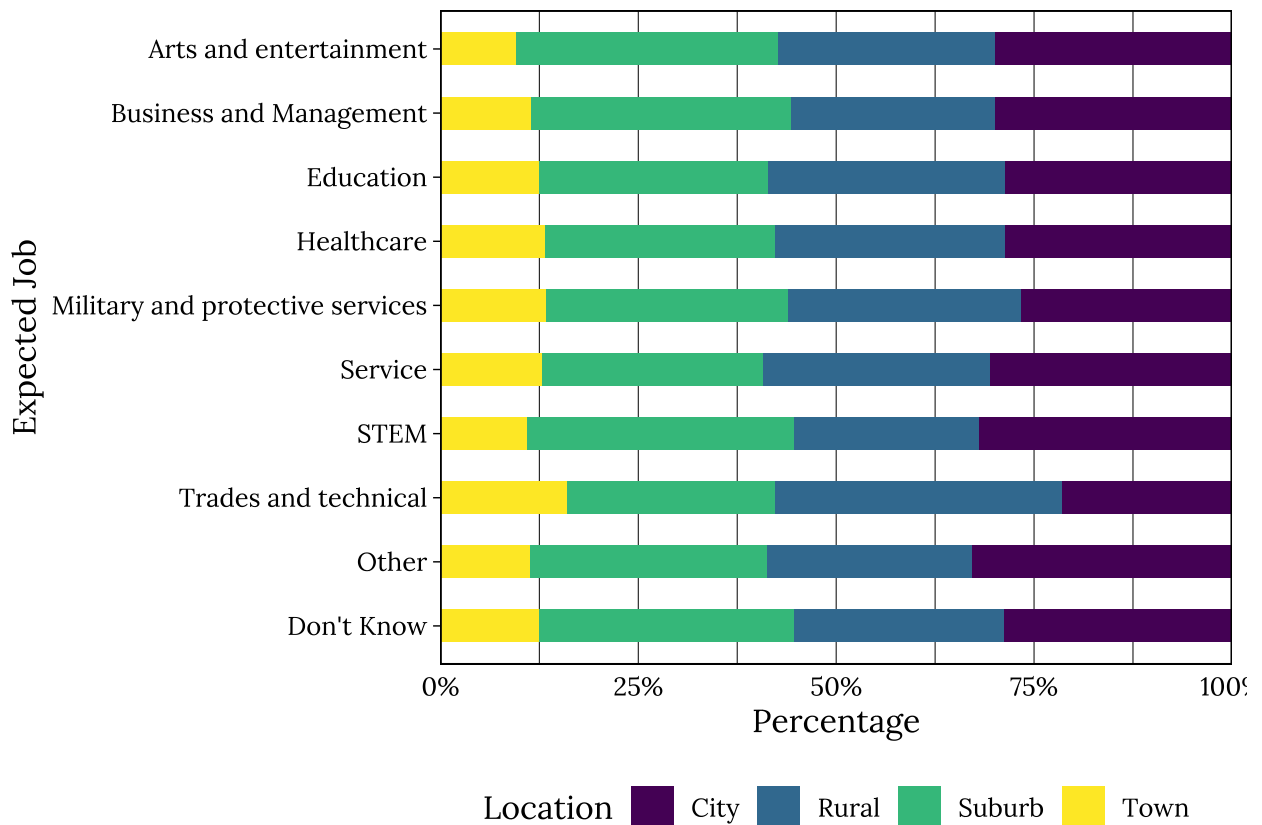
```
theme_set(theme_light(base_size = 9, base_family = "Lora"))
```

```
ggplot(data, aes(factor(S4JobIndustry, levels = order), fill = X4LOCALE))+  
  geom_bar(position = "fill", width = .5)+  
  coord_flip()+  
  scale_fill_viridis_d()+  
  theme_linedraw()+  
  labs(y = "Percentage",  
       x = "Expected Job",
```

```

    fill = "Location") +
  theme(
    text = element_text(family = "Lora", size = 12),
    legend.position = "bottom",
    axis.ticks.x = element_blank()
  ) +
  scale_y_continuous(labels = function(x) paste0(x*100, "%"), expand = c(0,0))

```



```

ggplot(data, aes(S4EdExpected, X4X2SES, color = S4EdExpected)) +
  geom_boxplot() +
  stat_summary(fun = mean, geom = "point", size = 3) +
  theme(
    text = element_text(family = "Lora", size = 12),
    legend.position = "none",
    panel.grid = element_blank()
  ) +
  coord_flip() +
  scale_color_viridis_d()

```