Nurses

Meddy

1/22/2022

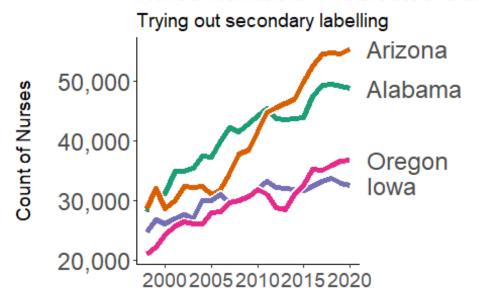## Nurse Numbers in Selected States

This is an exercise to describe how to use secondary labelling

```r
#Import Data
nurses <- read_csv("Registered Nursing Labor Stats by State (1998-2020).csv")

#Clean Data
nurses_filtered <- nurses %>%
  clean_names() %>%
  filter(state %in% c("Alabama", "Arizona", "Oregon", "Iowa"))

#get the maximum Values
max_y_value <- nurses_filtered %>%
  filter(year == max(year))

#Plot the Data
nurses_filtered %>%
  ggplot(aes(x = year,
             y = total_employed_rn,
             group = state,
             colour = state)) +
  geom_borderline(size = 2, bordersize = 0.75) +
  scale_colour_brewer(type = "qual", palette = 2) +
  theme_classic() +
  scale_y_continuous(labels = scales::comma_format(),
                     sec.axis = dup_axis(breaks =
max_y_value$total_employed_rn,
                                         labels = max_y_value$state,
                                         name = "")) +
  labs(title = "Nurse Numbers in Selected States",
       subtitle = "Trying out secondary labelling",
       colour = "State",
       x = "",
       y = "Count of Nurses\n",
       caption = "\nRutayisire") +
  theme(strip.text = element_text(size = 18),
        axis.title = element_text(size = 14),
        axis.text.x = element_text(size = 14),
        axis.text.y = element_text(size = 18),
        plot.title = element_text(size = 18),
        plot.subtitle = element_text(size = 14),
```

```
        plot.caption = element_text(size = 12),
        legend.text = element_text(size = 16),
        legend.title = element_text(size = 18),
        legend.position = "none",
        axis.line.y.right = element_line(color = "white"),
        axis.ticks.y.right = element_line(color = "white")
)
```

Nurse Numbers in Selected State
Trying out secondary labelling

Rutayisire