

Tidy Tuesday

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```
tues_data <- tt_load("2021-10-05")

#or

#tues_data <- tt_load(2021, week = 41)

names(tues_data)
```

```
[1] "nurses"
```

```
df <- tues_data$nurses
```

Income vs. Experience

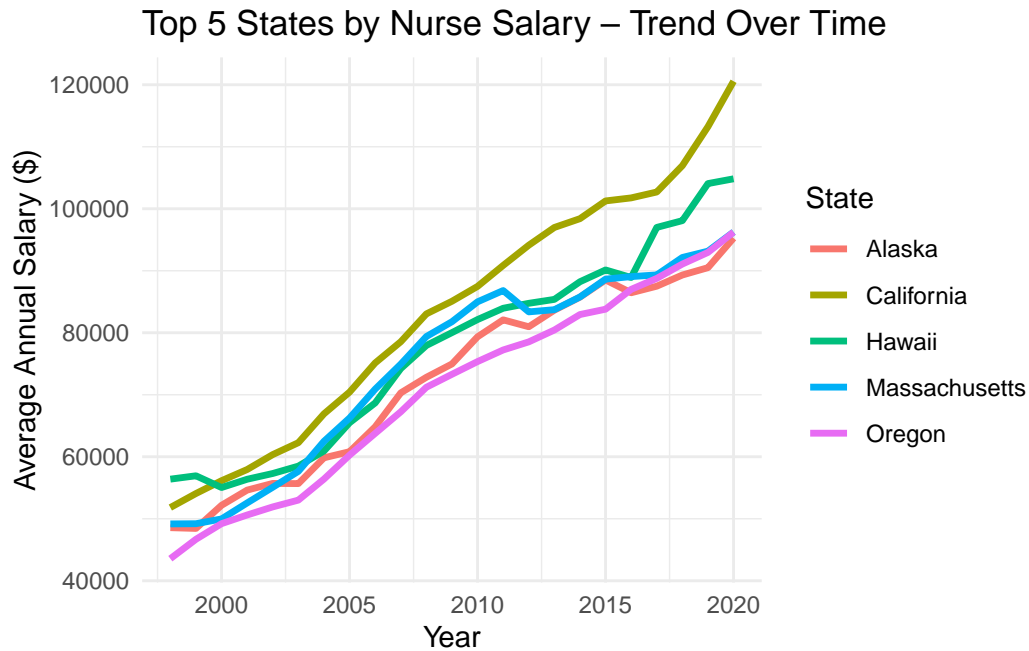
```
top_states <- df %>%
  filter(Year == max(Year)) %>%
  arrange(desc(`Annual Salary Avg`)) %>%
  slice_head(n = 5) %>%
  pull(State)

ggplot(
  df %>% filter(State %in% top_states),
  aes(x = Year, y = `Annual Salary Avg`, color = State)
) +
  geom_line(size = 1.2) +
  labs(
```

```

title = "Top 5 States by Nurse Salary - Trend Over Time",
x = "Year",
y = "Average Annual Salary ($)",
color = "State"
) +
theme_minimal()

```

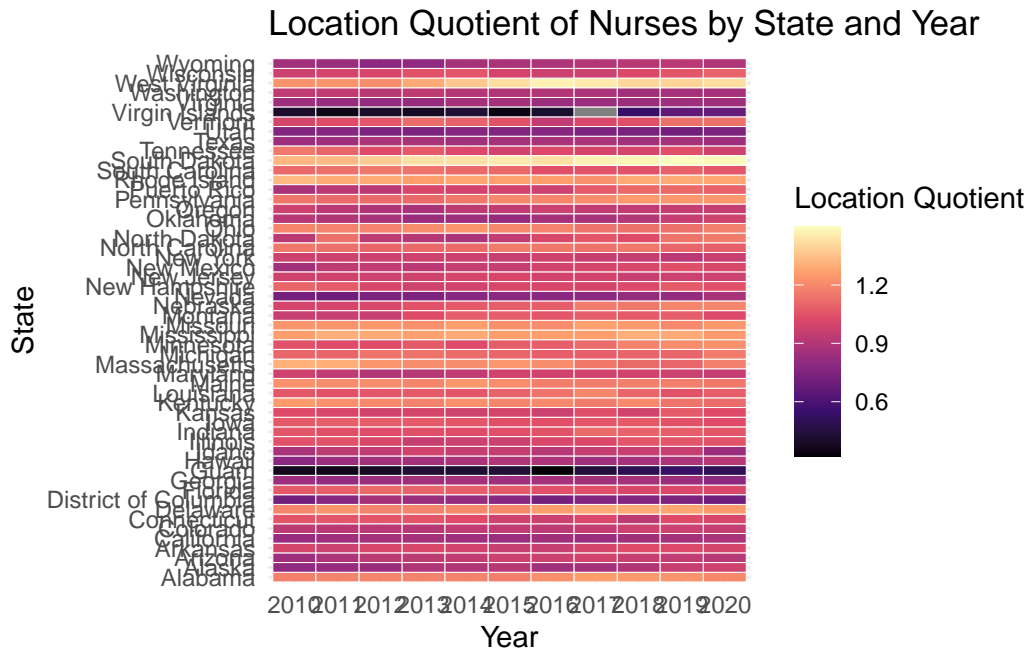


Location Quotient Across States and Year

```

df %>%
  filter(Year > 2009) %>%
  ggplot(aes(x = factor(Year), y = State, fill = `Location Quotient`)) +
  geom_tile(color = "white") +
  scale_fill_viridis_c(option = "magma") +
  labs(
    title = "Location Quotient of Nurses by State and Year",
    x = "Year",
    y = "State",
    fill = "Location Quotient"
  ) +
  theme_minimal()

```



Average Annual Nurse Salary by State

```
nurses_recent <- df %>%
  filter(Year == max(Year))

ggplot(nurses_recent, aes(x = reorder(State, `Annual Salary Avg`), y = `Annual Salary Avg`))
  geom_col(fill = "steelblue") +
  coord_flip() +
  labs(
    title = "Average Annual Nurse Salary by State",
    x = "State",
    y = "Annual Salary ($)"
  ) +
  theme_minimal()
```

Average Annual Nurse Salary by State

