

gapminder explorer

2025-03-04

Exploring Gapminder

Load data

```
gapminder <- read.csv("../data/gapminder_data.csv")
```

how can I compare life expectancy by country?

here's function that makes a **panel plot** using `facet_wrap` on country

make sure to filter on continent otherwise it's unreadable

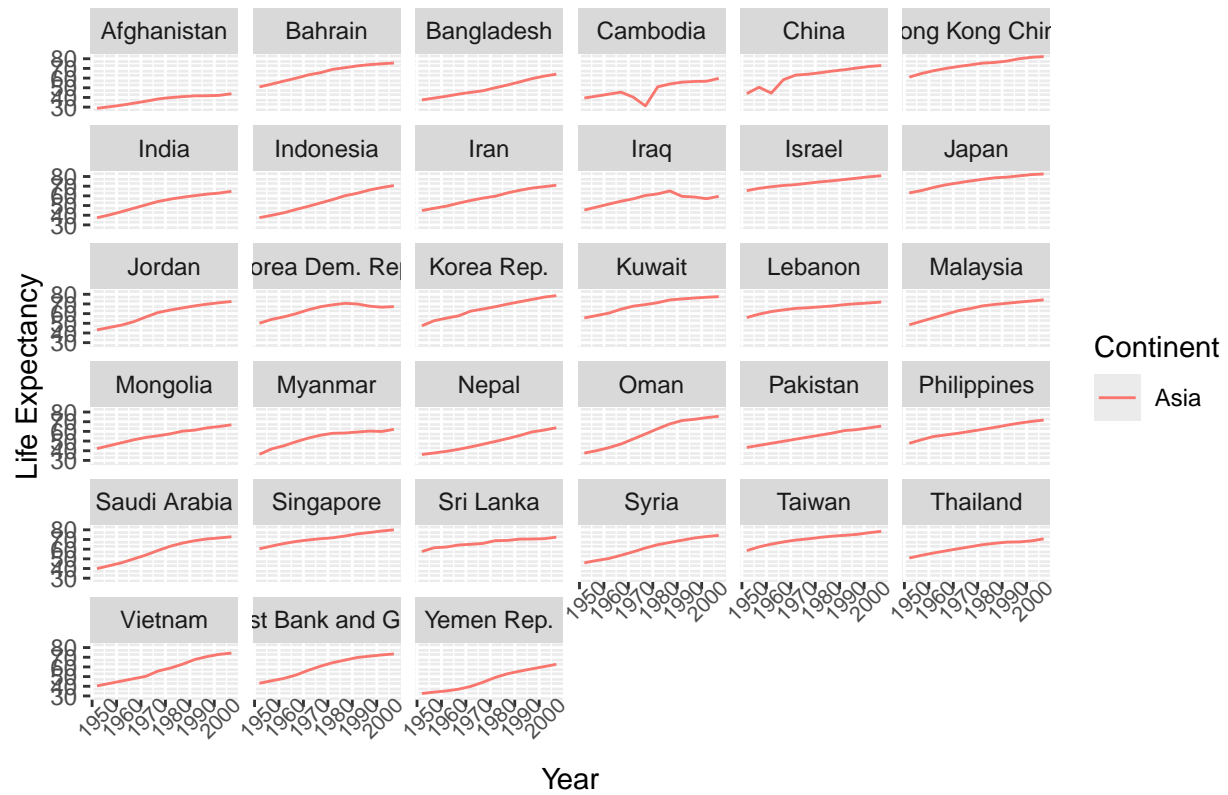
```
# using facet_wrap on country
gapminder_by_continent <- function(df, Continent){
  gm_plot <- df %>% filter(continent == Continent) %>%
    ggplot(mapping = aes(
      x=year, y = lifeExp, color = continent)) +
    geom_line() +
    facet_wrap( ~ country) +
    theme(axis.text.x = element_text(angle = 45, size=8)) +
    labs(title = "Life Expectancy by Year",
         x = "Year",
         y = "Life Expectancy",
         color = "Continent")

  return(gm_plot)
}
```

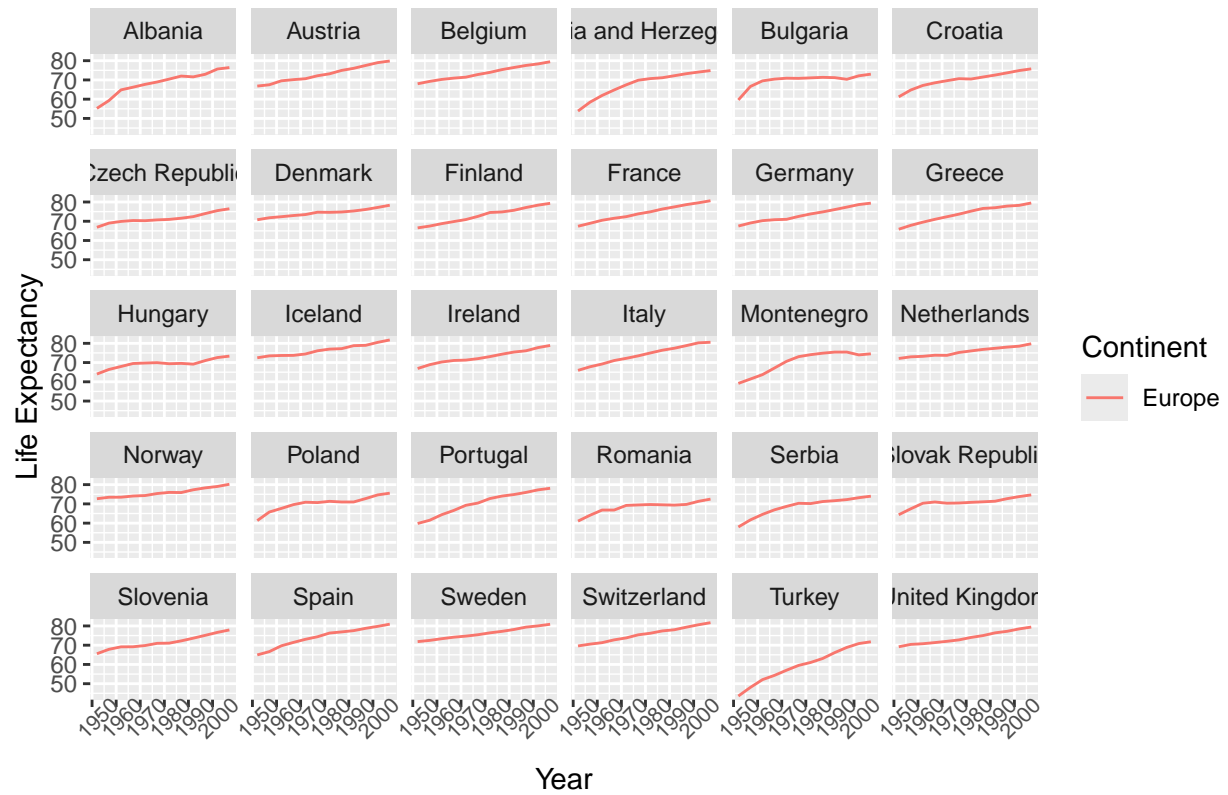
loop through all continents:

```
for(continent in unique(gapminder$continent)) {
  gm_plot <- gapminder_by_continent(gapminder, continent)
  print(gm_plot)
}
```

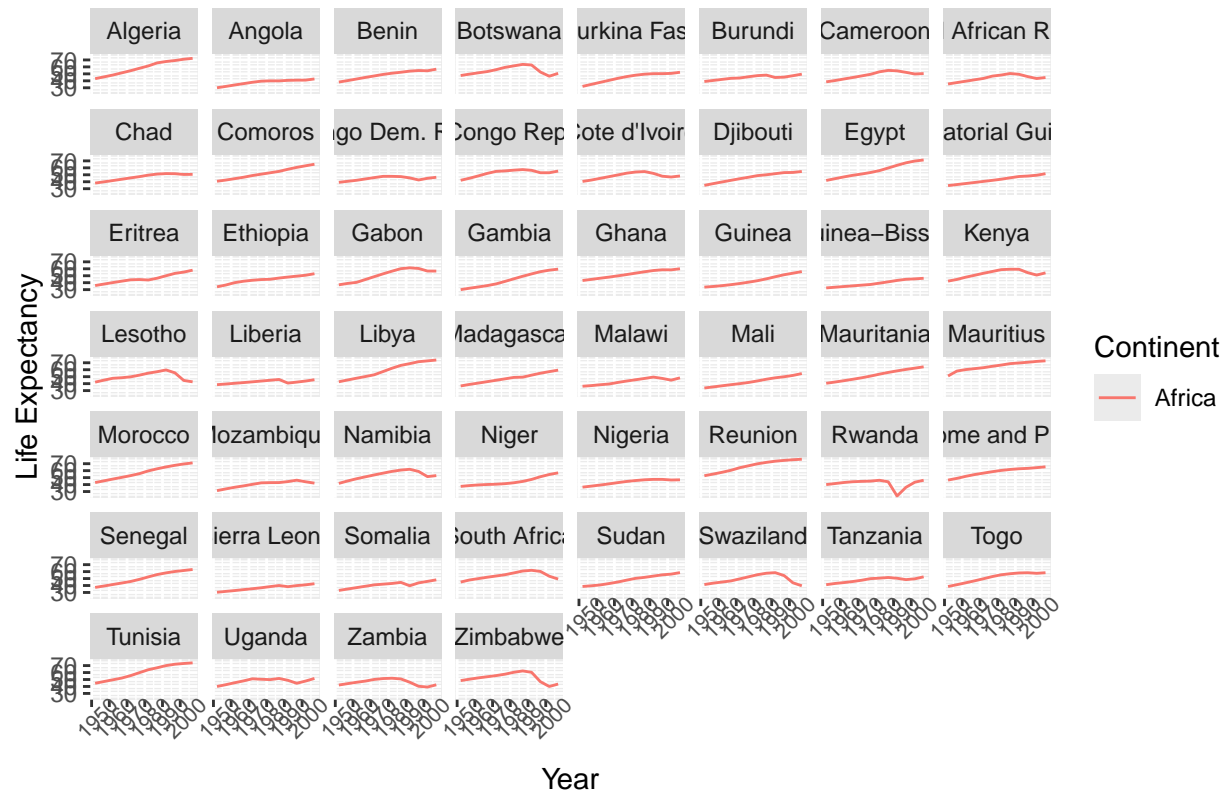
Life Expectancy by Year



Life Expectancy by Year



Life Expectancy by Year



Life Expectancy by Year

