Inflation

## Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

## Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

library(ggplot2)

library(dplyr)

library(gganimate)

# Inflation data for Pakistan  
inflation\_pak <- c(3.05, 3.21, 3.95, 5.01, 6.05, 6.49, 7.14, 7.58, 8.21, 9.19, 10.28, 10.89, 11.58, 12.29, 12.98, 13.43, 14.06, 15.30, 16.50, 18.00, 20.12, 22.03, 24.23, 27.23, 30.59, 33.76, 37.60, 39.94, 41.60, 43.41, 44.78, 46.25, 47.60, 51.14, 55.78, 60.20, 64.77, 77.91, 88.54, 100.00, 111.92, 122.75, 132.19, 141.70, 145.28, 150.75, 156.91, 164.88, 182.32, 200.08, 219.08, 262.62)  
  
years\_pak <- 1971:(1971 + length(inflation\_pak) - 1)  
  
# Inflation data for Finland  
inflation\_fin <- c(14.02, 14.96, 16.57, 19.37, 22.82, 26.10, 29.18, 31.45, 33.80, 37.72, 41.98, 46.01, 49.86, 53.38, 56.15, 57.80, 60.18, 63.24, 67.41, 71.55, 74.64, 76.82, 78.50, 79.35, 79.98, 80.48, 81.44, 82.58, 83.54, 86.08, 88.30, 89.69, 90.48, 90.65, 91.21, 92.64, 94.97, 98.83, 98.83, 100.00, 103.42, 106.32, 107.89, 109.02, 108.79, 109.18, 110.00, 111.19, 112.33, 112.66, 115.13, 123.33)  
  
years\_fin <- 1971:(1971 + length(inflation\_fin) - 1)  
  
# Filter the common years  
common\_years\_inflation <- intersect(years\_pak, years\_fin)  
  
data\_inflation <- data.frame(years = common\_years\_inflation,  
 inflation\_pak = inflation\_pak[match(common\_years\_inflation, years\_pak)],  
 inflation\_fin = inflation\_fin[match(common\_years\_inflation, years\_fin)])  
  
ggplot(data\_inflation, aes(x = years)) +  
 geom\_line(aes(y = inflation\_pak, color = "Pakistan"), size = 1) +  
 geom\_point(aes(y = inflation\_pak, color = "Pakistan"), size = 3) +  
 geom\_line(aes(y = inflation\_fin, color = "Finland"), size = 1) +  
 geom\_point(aes(y = inflation\_fin, color = "Finland"), size = 3) +  
 labs(title = "Inflation Rate Comparison: Pakistan vs. Finland", x = "Years", y = "Inflation Rate (%)") +  
 scale\_color\_manual(values = c("Pakistan" = "green", "Finland" = "blue")) +  
 theme\_minimal() +  
 theme(legend.position = "top", panel.background = element\_rect(fill = "#E6F7FF")) +  
 transition\_reveal(years)

