GDP Per Capita

## Quarto

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## 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)

# GDP per capita data for Pakistan  
gdp\_pak <- c(-2.152156811, -1.816669331, 4.106332712, 0.623272128, 1.186000345, 2.006001303, 0.762338883, 4.670487814, 0.249198303, 5.818348808, 3.25132238, 2.221561385, 2.965681287, 1.797705947, 4.138315668, 1.834970708, 2.74307172, 3.920326229, 1.479718397, 1.070266491, 1.721644178, 4.914473074, -0.812757165, 0.768829473, 1.909286568, 1.700962519, -1.912790954, -0.372285231, 0.739013701, 1.102322127, 0.495411848, 0.052876798, 3.118745379, 5.447802213, 4.985829705, 3.849318916, 2.2318834, -0.080584206, 1.191497907, -0.759129914, 0.535424529, 1.191726852, 2.775116261, 2.659526508, 2.875424595, 5.298324299, 3.05478922, 4.532445206, 0.862674222, -2.97029465, 4.578160431, 2.742112345)  
  
years\_pak <- 1971:(1971 + length(gdp\_pak) - 1)  
  
# GDP per capita data for Finland  
gdp\_fin <- c(2.227824609, 7.096153516, 6.377978811, 2.697457779, 1.354025294, 0.042351174, -0.040505648, 2.624625735, 6.848494759, 5.061714695, 0.884671018, 2.532004036, 2.503843385, 2.687519899, 3.117925686, 2.422429813, 3.28147645, 4.9117397, 4.708443331, 0.224909953, -6.398949439, -3.836533052, -1.141488063, 3.515885274, 3.819876288, 3.327669342, 6.018052758, 5.17759148, 4.137574737, 5.553997853, 2.37665487, 1.460928622, 1.76083857, 3.690587797, 2.428689227, 3.628941348, 4.852313276, 0.315886377, -8.513028487, 2.714966735, 2.073396315, -1.865591174, -1.357215611, -0.776108383, 0.21302942, 2.516379895, 2.950531373, 1.00565417, 1.113269092, -2.495122968, 2.957288554, 1.325876786)  
  
years\_fin <- 1971:(1971 + length(gdp\_fin) - 1)  
  
# Filter the common years  
common\_years\_gdp <- intersect(years\_pak, years\_fin)  
  
data\_gdp <- data.frame(years = common\_years\_gdp,  
 gdp\_pak = gdp\_pak[match(common\_years\_gdp, years\_pak)],  
 gdp\_fin = gdp\_fin[match(common\_years\_gdp, years\_fin)])  
  
ggplot(data\_gdp, aes(x = years)) +  
 geom\_line(aes(y = gdp\_pak, color = "Pakistan"), size = 1) +  
 geom\_point(aes(y = gdp\_pak, color = "Pakistan"), size = 3) +  
 geom\_line(aes(y = gdp\_fin, color = "Finland"), size = 1) +  
 geom\_point(aes(y = gdp\_fin, color = "Finland"), size = 3) +  
 labs(title = "GDP Per Capita Comparison: Pakistan vs. Finland", x = "Years", y = "GDP Per Capita") +  
 scale\_color\_manual(values = c("Pakistan" = "green", "Finland" = "blue")) +  
 theme\_minimal() +  
 theme(legend.position = "top", panel.background = element\_rect(fill = "#F7E6FF")) + # Light Lavender  
 transition\_reveal(years)

