Gapminder... 知ってますか?





Getting Started with R-Studio R-Studioを始めよう

If you haven't installed R and RStudio, use the following guide to do so first, and then come back.

「R」と「RStudio」をインストールしてなかったら、このガイドでインストールしてからここに戻ってきましょう。



Let's get started

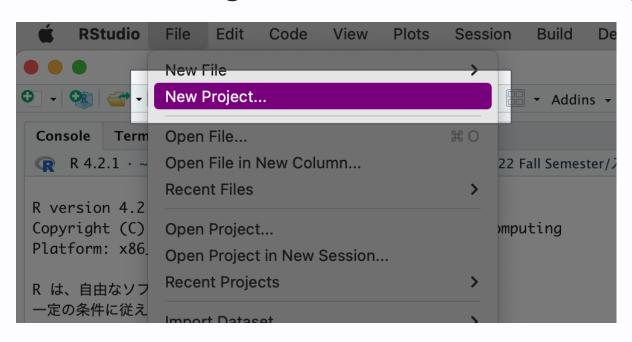


Let's get the gapminder data!

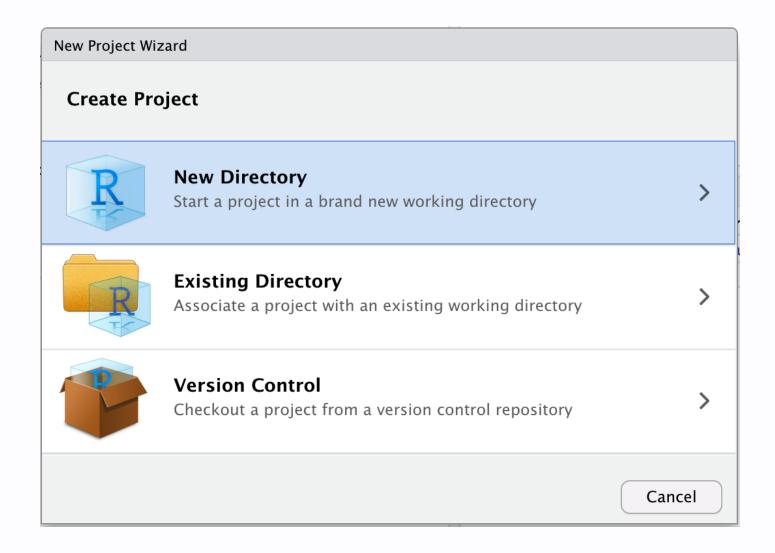


Launch R Studio (RStudioを使おう)

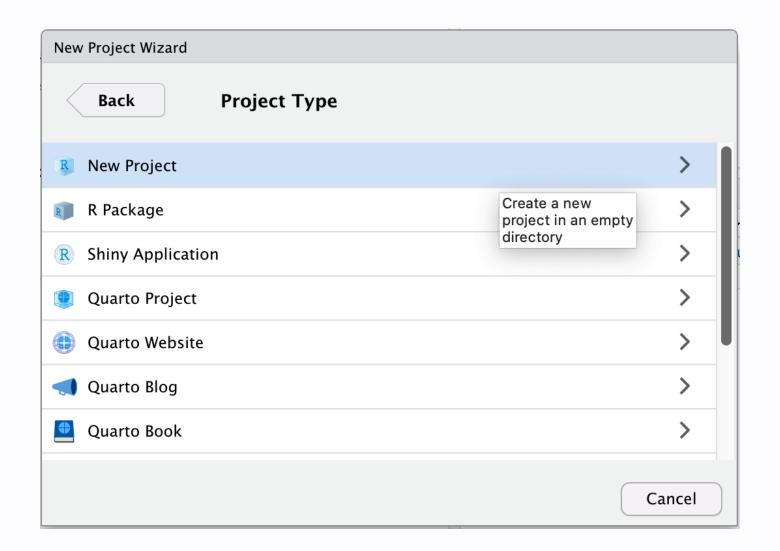
Open RStudio, go to File → New Project



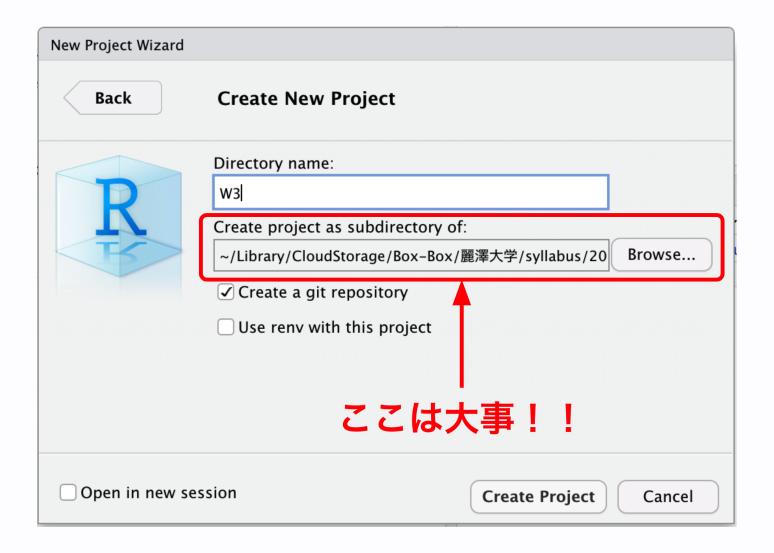


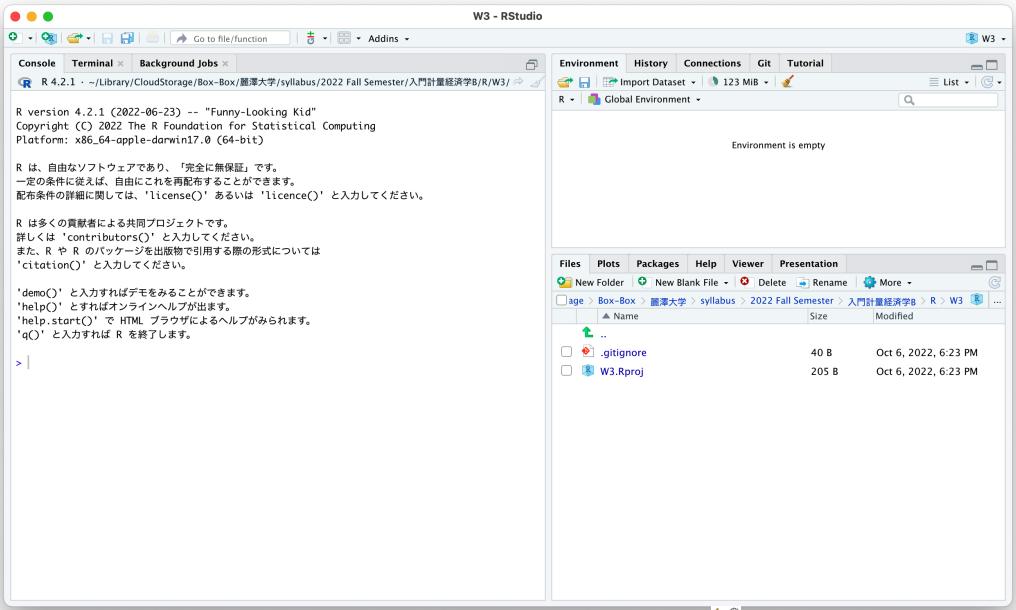












Pause: Are we all here?

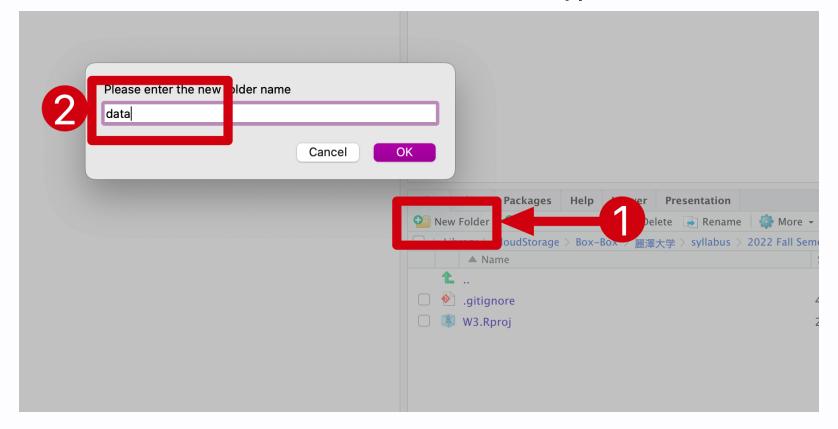


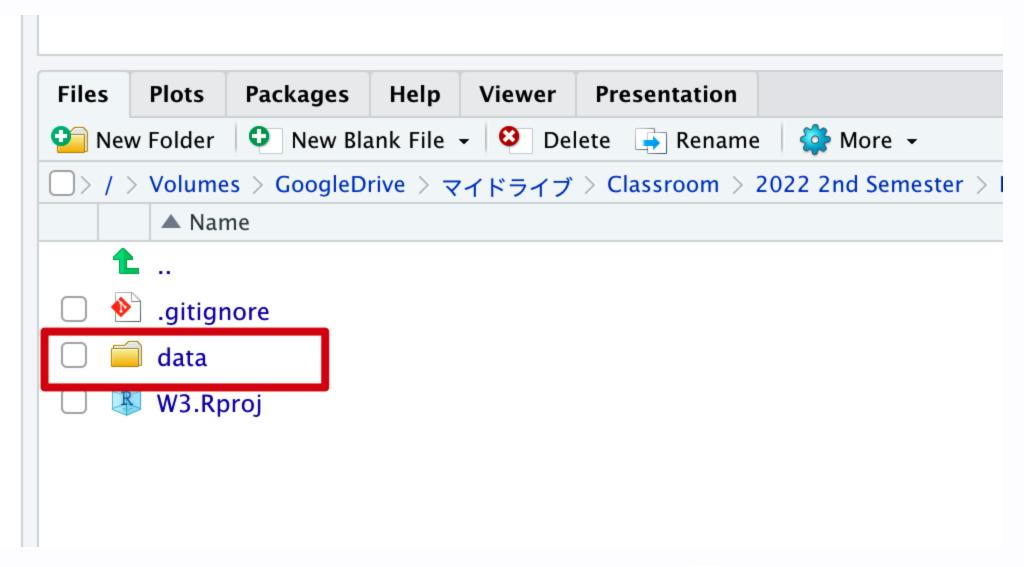
Let's load some data! 💖



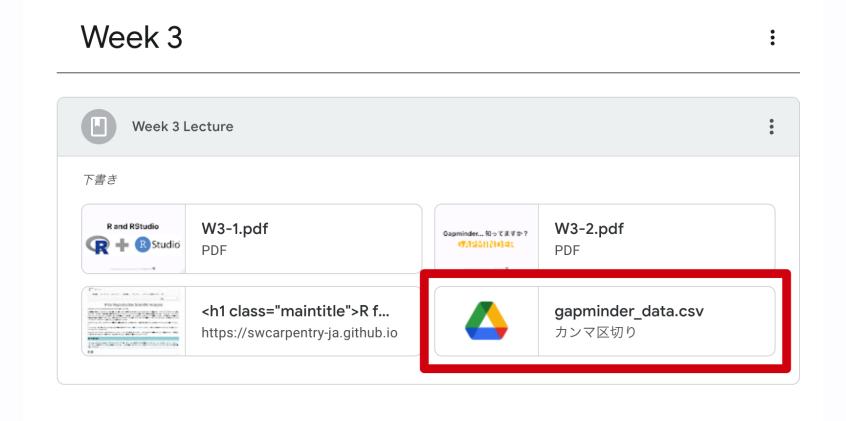


データフォルダーを作る

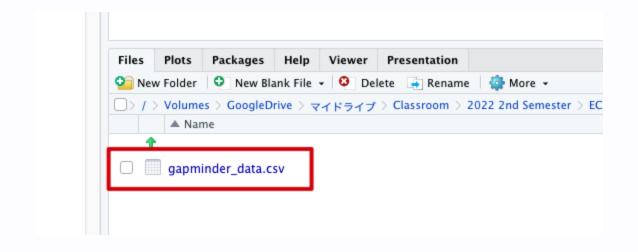




クラスサイトからGapminderデータを data フォルダーにダ ウンロード







Let's code!

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



View the data

gapminder

str(gapminder)



最初の何行か

head(gapminder, 10)

じゃ~最後の10行は何でしょう?



View the data as a table

View(gapminder)

View a single column

gapminder\$year

Try other columns!



View distinct values

unique(gapminder\$year)

Try other columns!

Get some stats

summary(gapminder)

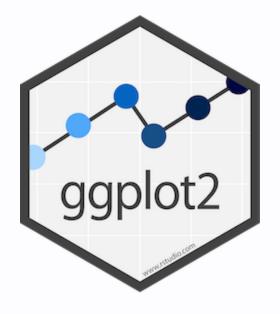


Stats for individual columns

mean(gapminder\$pop)

Try other columns!

Other stat functions: max(), min(), median(), sd()



Say hi to ggplot2

https://ggplot2.tidyverse.org/

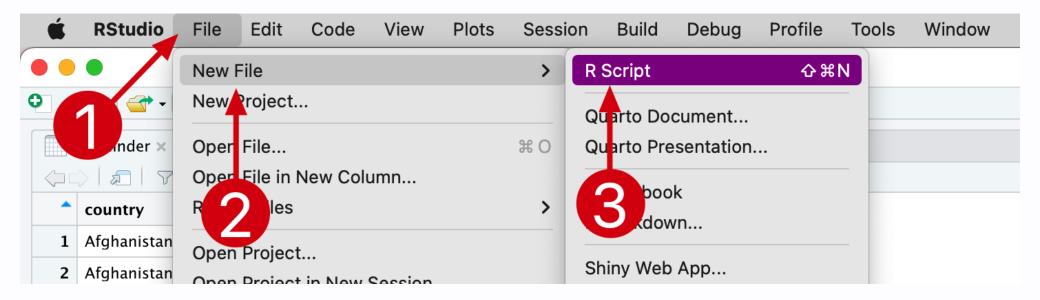


Install ggplot2

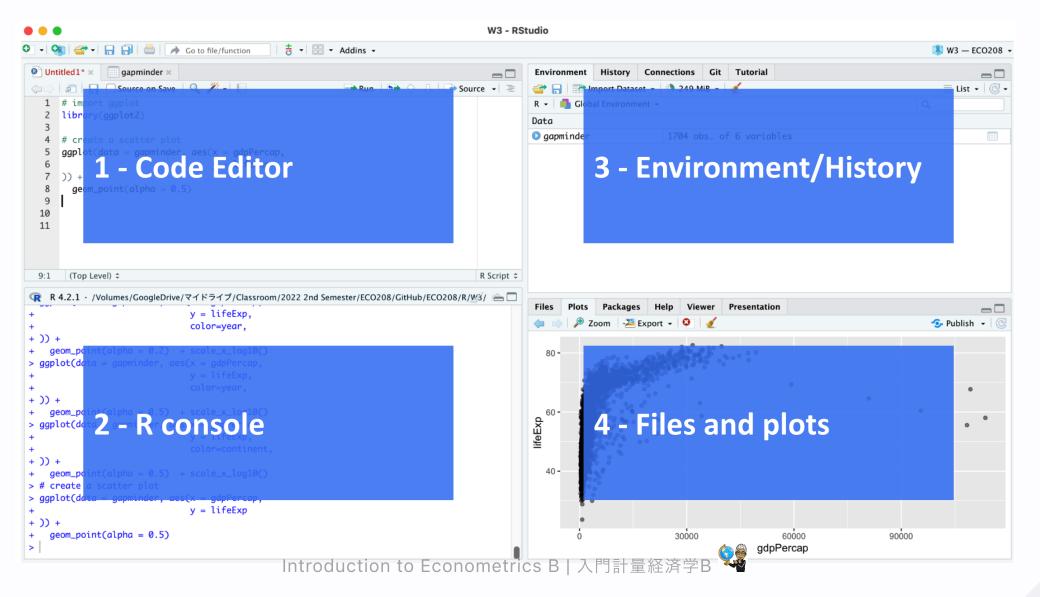
install.packages("tidyverse")



Create an R script file



RStudio panels



Enter some code in the code editor and press run PRUN



Add color

Stretch the points

Make the points semi-transparent