Exercício 2

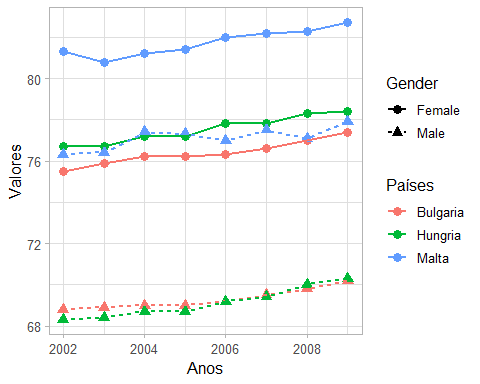
Joao Andre Roque Costa

12/06/2022

source <- read\_excel("C:/Users/João Roque Costa/Downloads/EsperancaVida.xlsx", col\_names = FALSE)

New names:  
\* `` -> `...1`  
\* `` -> `...2`  
\* `` -> `...3`  
\* `` -> `...4`  
\* `` -> `...5`  
\* `` -> `...6`  
\* `` -> `...7`  
\* `` -> `...8`  
\* `` -> `...9`  
\* `` -> `...10`  
\* `` -> `...11`  
\* `` -> `...12`  
\* `` -> `...13`  
\* `` -> `...14`  
\* `` -> `...15`  
\* `` -> `...16`  
\* `` -> `...17`  
\* `` -> `...18`  
\* `` -> `...19`  
\* `` -> `...20`  
\* `` -> `...21`  
\* `` -> `...22`  
\* `` -> `...23`  
\* `` -> `...24`  
\* `` -> `...25`  
\* `` -> `...26`  
\* `` -> `...27`  
\* `` -> `...28`  
\* `` -> `...29`  
\* `` -> `...30`  
\* `` -> `...31`  
\* `` -> `...32`  
\* `` -> `...33`  
\* `` -> `...34`  
\* `` -> `...35`  
\* `` -> `...36`  
\* `` -> `...37`  
\* `` -> `...38`  
\* `` -> `...39`  
\* `` -> `...40`  
\* `` -> `...41`  
\* `` -> `...42`  
\* `` -> `...43`  
\* `` -> `...44`  
\* `` -> `...45`  
\* `` -> `...46`  
\* `` -> `...47`  
\* `` -> `...48`  
\* `` -> `...49`  
\* `` -> `...50`  
\* `` -> `...51`  
\* `` -> `...52`  
\* `` -> `...53`  
\* `` -> `...54`  
\* `` -> `...55`  
\* `` -> `...56`  
\* `` -> `...57`  
\* `` -> `...58`  
\* `` -> `...59`  
\* `` -> `...60`  
\* `` -> `...61`  
\* `` -> `...62`  
\* `` -> `...63`  
\* `` -> `...64`  
\* `` -> `...65`  
\* `` -> `...66`  
\* `` -> `...67`  
\* `` -> `...68`  
\* `` -> `...69`  
\* `` -> `...70`  
\* `` -> `...71`  
\* `` -> `...72`  
\* `` -> `...73`  
\* `` -> `...74`  
\* `` -> `...75`  
\* `` -> `...76`  
\* `` -> `...77`  
\* `` -> `...78`  
\* `` -> `...79`  
\* `` -> `...80`  
\* `` -> `...81`  
\* `` -> `...82`  
\* `` -> `...83`  
\* `` -> `...84`  
\* `` -> `...85`  
\* `` -> `...86`  
\* `` -> `...87`  
\* `` -> `...88`  
\* `` -> `...89`  
\* `` -> `...90`  
\* `` -> `...91`  
\* `` -> `...92`  
\* `` -> `...93`  
\* `` -> `...94`  
\* `` -> `...95`  
\* `` -> `...96`  
\* `` -> `...97`  
\* `` -> `...98`  
\* `` -> `...99`  
\* `` -> `...100`  
\* `` -> `...101`  
\* `` -> `...102`  
\* `` -> `...103`  
\* `` -> `...104`  
\* `` -> `...105`  
\* `` -> `...106`  
\* `` -> `...107`  
\* `` -> `...108`  
\* `` -> `...109`  
\* `` -> `...110`  
\* `` -> `...111`  
\* `` -> `...112`  
\* `` -> `...113`  
\* `` -> `...114`  
\* `` -> `...115`  
\* `` -> `...116`  
\* `` -> `...117`  
\* `` -> `...118`  
\* `` -> `...119`  
\* `` -> `...120`  
\* `` -> `...121`  
\* `` -> `...122`  
\* `` -> `...123`  
\* `` -> `...124`  
\* `` -> `...125`  
\* `` -> `...126`  
\* `` -> `...127`  
\* `` -> `...128`  
\* `` -> `...129`  
\* `` -> `...130`  
\* `` -> `...131`  
\* `` -> `...132`  
\* `` -> `...133`  
\* `` -> `...134`  
\* `` -> `...135`  
\* `` -> `...136`  
\* `` -> `...137`  
\* `` -> `...138`  
\* `` -> `...139`  
\* `` -> `...140`  
\* `` -> `...141`  
\* `` -> `...142`  
\* `` -> `...143`  
\* `` -> `...144`  
\* `` -> `...145`  
\* `` -> `...146`  
\* `` -> `...147`  
\* `` -> `...148`  
\* `` -> `...149`  
\* `` -> `...150`  
\* `` -> `...151`  
\* `` -> `...152`  
\* `` -> `...153`  
\* `` -> `...154`  
\* `` -> `...155`  
\* `` -> `...156`  
\* `` -> `...157`  
\* `` -> `...158`  
\* `` -> `...159`  
\* `` -> `...160`  
\* `` -> `...161`  
\* `` -> `...162`  
\* `` -> `...163`  
\* `` -> `...164`  
\* `` -> `...165`  
\* `` -> `...166`  
\* `` -> `...167`  
\* `` -> `...168`  
\* `` -> `...169`  
\* `` -> `...170`  
\* `` -> `...171`  
\* `` -> `...172`  
\* `` -> `...173`  
\* `` -> `...174`  
\* `` -> `...175`  
\* `` -> `...176`  
\* `` -> `...177`  
\* `` -> `...178`  
\* `` -> `...179`  
\* `` -> `...180`  
\* `` -> `...181`  
\* `` -> `...182`  
\* `` -> `...183`  
\* `` -> `...184`  
\* `` -> `...185`  
\* `` -> `...186`  
\* `` -> `...187`  
\* `` -> `...188`  
\* `` -> `...189`  
\* `` -> `...190`  
\* `` -> `...191`  
\* `` -> `...192`  
\* `` -> `...193`  
\* `` -> `...194`  
\* `` -> `...195`  
\* `` -> `...196`  
\* `` -> `...197`  
\* `` -> `...198`  
\* `` -> `...199`  
\* `` -> `...200`  
\* `` -> `...201`  
\* `` -> `...202`  
\* `` -> `...203`  
\* `` -> `...204`  
\* `` -> `...205`  
\* `` -> `...206`  
\* `` -> `...207`  
\* `` -> `...208`  
\* `` -> `...209`  
\* `` -> `...210`  
\* `` -> `...211`  
\* `` -> `...212`  
\* `` -> `...213`  
\* `` -> `...214`  
\* `` -> `...215`  
\* `` -> `...216`  
\* `` -> `...217`  
\* `` -> `...218`  
\* `` -> `...219`  
\* `` -> `...220`  
\* `` -> `...221`  
\* `` -> `...222`  
\* `` -> `...223`  
\* `` -> `...224`  
\* `` -> `...225`  
\* `` -> `...226`  
\* `` -> `...227`  
\* `` -> `...228`  
\* `` -> `...229`  
\* `` -> `...230`  
\* `` -> `...231`  
\* `` -> `...232`  
\* `` -> `...233`  
\* `` -> `...234`  
\* `` -> `...235`  
\* `` -> `...236`  
\* `` -> `...237`  
\* `` -> `...238`  
\* `` -> `...239`  
\* `` -> `...240`  
\* `` -> `...241`  
\* `` -> `...242`  
\* `` -> `...243`  
\* `` -> `...244`  
\* `` -> `...245`  
\* `` -> `...246`  
\* `` -> `...247`  
\* `` -> `...248`  
\* `` -> `...249`  
\* `` -> `...250`  
\* `` -> `...251`  
\* `` -> `...252`  
\* `` -> `...253`  
\* `` -> `...254`  
\* `` -> `...255`  
\* `` -> `...256`

source <- source[c(6:67),c(1:103)]  
  
graph <- c(source[c(44:51), c(1,42,53,59,76,87,93)])  
graph <- sapply(graph, as.numeric)  
colnames(graph) <- c("Anos","BT.H","HU.H","MT.H","BT.M","HU.M","MT.M")  
dataFrame <- as.data.frame(graph)  
  
tab <- data.frame(  
 Anos = rep(c(dataFrame$Anos), 2),  
 Países = rep(c("Bulgaria", "Hungria", "Malta"), each = 16),  
 Gender = rep(c("Male", "Female"), each = 8),  
 Valores = c(dataFrame$BT.H, dataFrame$BT.M, dataFrame$HU.H, dataFrame$HU.M,dataFrame$MT.H,dataFrame$MT.M)  
)  
  
ggplot(tab, aes(x = Anos)) +  
 geom\_point(aes(y = Valores, colour = Países, shape = Gender), size = 3) +  
 geom\_line(aes(y = Valores, colour = Países, linetype = Gender), size = 1)



# COMENTARIO

Observamos que em geral os valores da esperança media de vida subiram ao longo dos anos, onde as mulheres obtiveram consistentemente valores superiores aos homens.