

R codes

Code (1)

```
dat1 <- data.frame(
  Sex = factor(c("F","F","F","F","F","F","F","F","F","F","M","M","M","M","M","M","M","M","M","M")),
  time =
factor(c("2005","2006","2007","2008","2009","2010","2011","2012","2013","2014","2005","2006","2007","2008","2009","2010","2011","2012","2013","2014")),
  total1 = c(65757, 66925, 67792, 67876, 66208, 65705,65579, 66914, 67577, 68613,75973 ,77502
,78254 ,77486 ,73359 ,74290 ,74290 ,75555 ,76653 ,77692))

library(ggplot2)

library(extrafont)

g=ggplot(data=dat1, aes(x=time, y=total1, group=Sex, shape=Sex, colour=Sex)) +
  geom_line(size=1.5) +
  geom_point(size=3, fill="white") +
  scale_shape_manual(values=c(22,21))

g0=g+scale_y_continuous(breaks = c(63000,66000,69000,72000,75000,78000))

require(scales)

g1=g0+labs(title=" Employment population by sex (Thousands)\n 16 years and over ",cex.lab=1.5,
x="Years", y=" Total number of employees ")

g2=g1+theme(axis.title.x = element_text(colour="black
",size=13, vjust=0, face="bold"),axis.title.y = element_text(colour="black",size=13, vjust=1.5,
face="bold"),plot.title=element_text(size = rel(1.5)), title = element_text(colour=" black",vjust=2,
face="bold" ), legend.title=element_text(size=13, colour="black", face="bold"))
```

Code (2)

```
dat1 <- data.frame(

Employment=factor(c("Employed","Employed","Employed","Employed","Employed","Employed","Employed","Employed","Employed","Employed","Employed","Employed","Unemployed","Unemployed","Unemployed","Unemployed","Unemployed","Unemployed","Unemployed","Unemployed","Unemployed","Unemployed")),

  time =
factor(c("2005","2006","2007","2008","2009","2010","2011","2012","2013","2014","2005","2006","2007","2008","2009","2010","2011","2012","2013","2014")),

  total1 = c(65757, 66925, 67792, 67876, 66208, 65705,65579, 66914, 67577, 68613, 3531, 3247, 3196, 3891, 5811, 6199, 6063, 5734, 5146, 4426))

library(ggplot2)

library(extrafont)

g=ggplot(data=dat1, aes(x=time, y=total1, group=Employment, shape= Employment, colour=Employment)) +

  geom_line(size=1.5) +

  geom_point(size=3, fill="white") +

  scale_shape_manual(values=c(22,21))

g0=g+scale_y_continuous(breaks =
c(5000,10000,15000,20000,25000,30000,35000,40000,45000,50000,55000,60000,65000) )

require(scales)

g1=g+labs(title=" Employed and unemployed women (Thousands)\n 16 years and over",cex.lab=1.5,
x="Years", y=" Total number of employees ")
g2=g1+theme(axis.title.x = element_text(colour="black",size=13, vjust=0, face="bold"),axis.title.y = element_text(colour="black",size=13, vjust=1.5, face="bold"),plot.title=element_text(size =15), title = element_text(colour=" black",vjust=2, face="bold" ), legend.title=element_text(size=13, colour="black", face="bold"))
```