

High-quality images for graphs in MS Excel

The required resolution for images and graphs on the *Studi AISV* series is at least 300 (or 600) DPI (dot per inch | pixel per inch). Following the next steps, you will be able to export files with adequate resolution.

You can copy a graph from Excel (*CMD+C*) with the requested preset print size. You can now open the Preview app and create a new document (*CMD+N*). This will load the graph directly into Preview. In Preview, select *File > Save* and change the file format to PNG. In the save window, you can change the DPI to 300 pixels (or 600).

Please note that the dimensions for MS Word resized images do not correspond to the real size of exported images: therefore, resized images cannot be used by the publisher.

High-quality images for graphs in PowerPoint

In order to resize a graph or an image on PPT, you need to change the slide dimensions first. Click on the *File > Save As* command and save the slide as PDF. You can now open the PDF file with the Preview app. Click on *File > Save* and change the file format to PNG. In the save window, you can change the DPI to 300 (or 600) pixels.

High-quality images for graphs in R

a) If you want to save the image in the working directory, please follow these steps:

```
ppi <- 300 ## set resolution for output images

png(file = "filename.png", width=4*ppi, height=4*ppi, res=ppi) ## in "file" specify the name of your image,
image size: ca. 10cm*10cm

ggplot(df, aes(gp, y)) + geom_point() ## create your image

dev.off()
```

b) If you want to save the image in a folder different from the working directory, please follow these steps:

```
ppi <- 300 ## set resolution for output images
png(filename = "C:/Users/XXX/Desktop/image.png", width=4*ppi, height=4*ppi, res=ppi) ## in "filename"
specify the path of the desired folder
ggplot(df, aes(gp, y)) + geom_point()
dev.off()

#For further information: https://www.rdocumentation.org/packages/grDevices/versions/3.4.1/topics/png
```