TP1 : Color image

The purpose of this TP is to manipulate color images. This TP will be done using Matlab which is a programming tool for which loading and viewing images is very simple!

Displaying an image in Matlab

Launch Matlab and display the image above (attached in mail), using the "imread" command. You can use Matlab "help" to guide you.
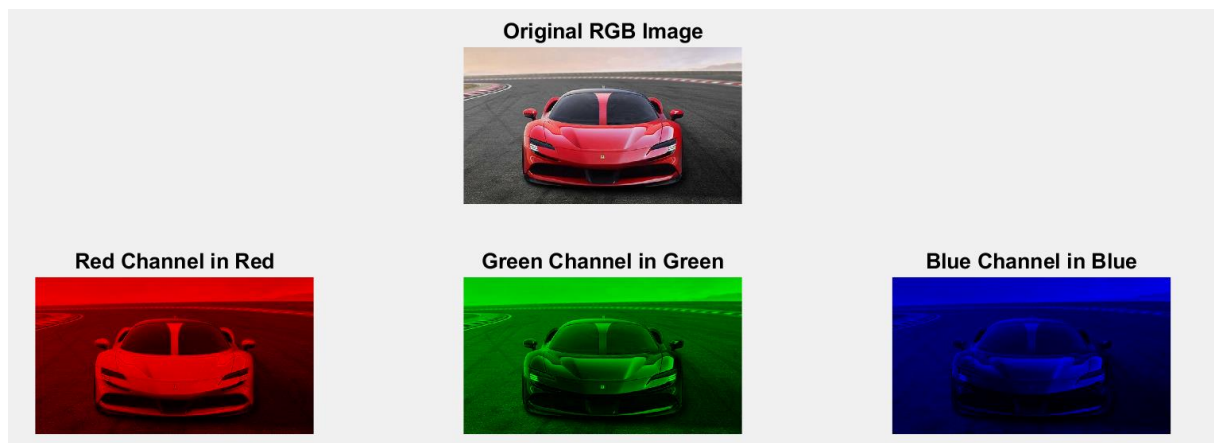
At the end of this TP, a PDF is asked to be sent back to **Zongwei_wu@etu.u-bourgogne.fr** by mail. This PDF should include your answers to questions 1-3 and the associated code for questions 4-5 with explication.

The code is expected to be executed on Matlab without any additional manipulation. Thus, it is hugely recommended to close your Matlab, reopen it and test the code again.

The deadline for the PDF will be the Thursday 26 March 23:59

Questions:

1. Determine the dimensions of the image displayed with the "size" command.

2. What do the values obtained correspond to?

3. Why is the image type "uint8"?

4. Display the blue, green and red components of this image separately like:

5. Can we the separation of the red part (as max as we can) like following (or better)