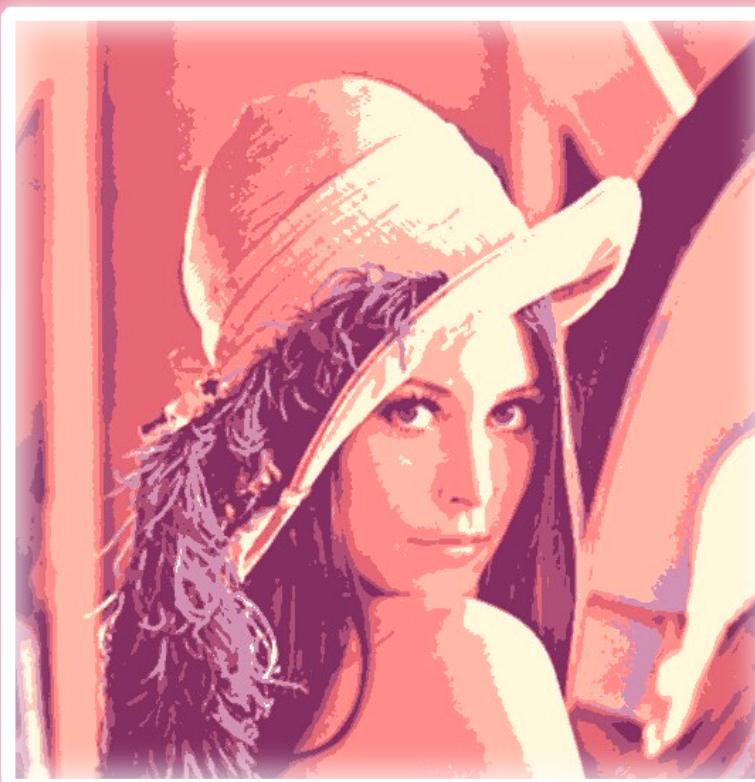


# CARTOONIZATION

## CLASSICAL METHOD

A simple method to cartoonize images is to quantify the colors with methods like SLIC or KMEAN and add edges obtained with Sobel filters or algorithms like Canny.



## STYLE TRANSFER

The goal is to define an image representing the content and another representing the style and to combine them to obtain the "content" image with the style of the "style" image. We can weight the impact of the 2 images to obtain different results.

## CARTOON GAN

We define 2 neural networks: a generator of cartoon images and a discriminator that detects if an image is real or not. They work in a competitive way to train a model that transforms images into cartoonized images.

