

Star Stable Entertainment

C++ coding skills test.

We would like you to write down a program that reads a Targa file (TGA) and makes a copy scaled to **50% of the size** of the original file. Ex if the original image is 256x128 the downscaled one should be 128x64.

We require you to implement at least **2 different algorithms** for image scaling.

Requirements:

- At least uncompressed TGA support. RLE is optional but welcome.
 - If you add RLE support, provide us with the test image you used.
- At least support for both RGB and RGBA images. Grayscale support is optional but welcome.
 - If you add grayscale support, provide us with the test image you used.
- Make use of features in c++11 and above, if you are able to.
- Allow to control your program by setting command line options like this:
 - `foo.exe INPUT_FILE OUTPUT_FILE ALGORITHM`
- Create a document with your investigation and decision taking.

We believe this assignment can be done in an average of 6-8 hours. We understand that you might have other responsibilities apart from this test so once you have read the assignment, please communicate with us when you believe that you will be ready to submit your answers.

Info about Targa file format: https://en.wikipedia.org/wiki/Truevision_TGA

Info about Image scaling: https://en.wikipedia.org/wiki/Image_scaling