BSS Designer® - Study lessons

Lesson 2

Let's create an example of a simple background with the use of decorative kinds of a raster, the change of structure of which is defined by the mathematical formula. The example is printed out on the usual laser printer supporting the resolution 600 dpi.
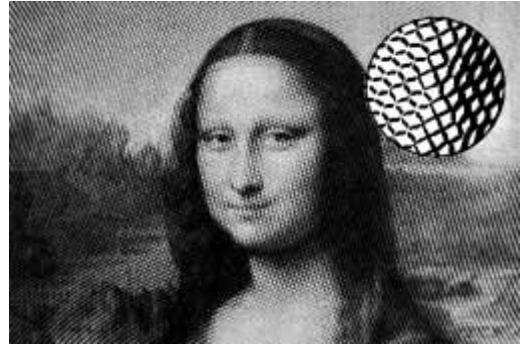
1. Start the program BSS Designer®.

2. Specify a location of the screened image. Leave the resolution unchanged.

3. Do not specify the image "B", it will not be used.

4. Do not specify the image "C", it will not be used.

5. Pass to the menu "Parameters".

6. Set the value of ruling 30 lpi.

7. Establish the value of the resolution 600 dpi.

8. Establish the angle of screening 0 degrees.

9. As the required dot gain compensation is not known, set the value 1.00.

10. In the menu "Dot Shape Modification" choose a mode "Based on the formula".

11. Set the formula for S = (A-0.5) *2. Rasters: "Double line" - "Rhombus" - "Double Bar".

12. In the menu "Deformation of Structure" choose a mode "Based on the formula".

13. Set the formula for dX = cos (h*3.14) *dpi/2, for dY =-cos (l*3.14) *dpi/2, the multiplication factor 1.00.

14. Pass to the menu "Generation".

15. Generate a map of a raster.

16. Generate the structure of a raster.

17. Specify the name and a location of a generated file.

18. Generate the screened image.

Screened image

Generated raster

19. Save the parameters of the project in order to use them afterwards.

20. Set 40 % filling of a verifying grid.

21. Set 0 degree angle of a verifying grid.

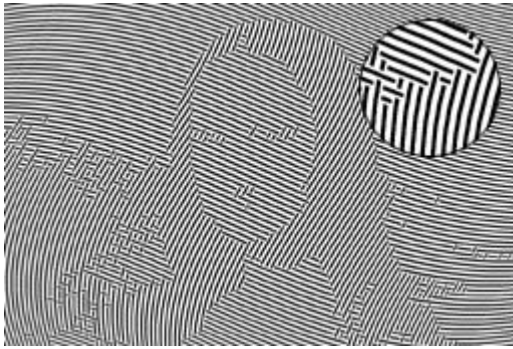22. Choose a mode "Save Deformation".

23. Specify a location and the name for a file of a verifying film.
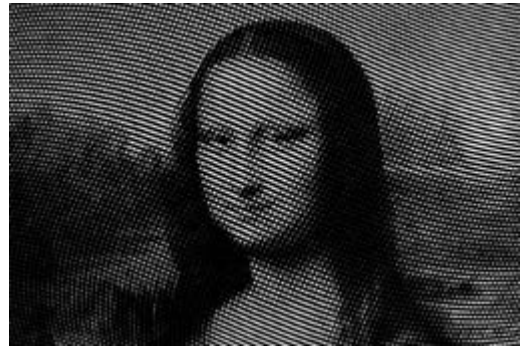
24. Generate a verifying film.

25. Open the generated files or import them in any graphic editor.

26. Not changing the size and proportions of images, print the image of a background on the white paper, and a verifying film on the transparent tracing-paper. For printing use the laser printer in a mode 600 or 1200 dpi.

27. Apply the tracing-paper on the image and check up conformity of geometrical structures of a pattern.

Verifying film

Application of a film on the image

28. If you have become confused in the menu of program BSS Designer$^{®}$, load a file of the project lesson_2.mtj and verify your installations.

The list of applied files:

A.tif   -   the basic screened image

Out.tif   -   the generated raster of the basic image

Net.tif   -   a file of a verifying film

Lesson2.mtj   -   a file of the project with the kept installations

Lesson2.html -   a file of the present description

BSS