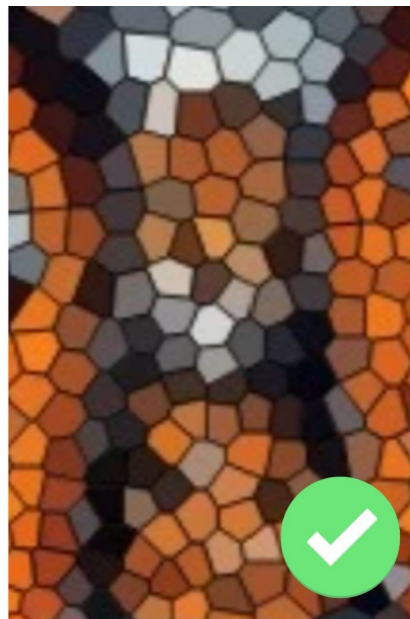
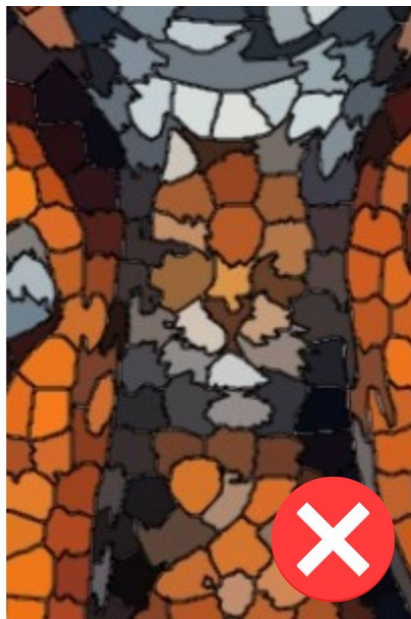


First of all, I'll explain the purpose of the program so that you can better understand my needs and what I want from the program.

Basically, I have to create mosaics by cutting out all the tiles with a laser cutter, and to do this I need to create the path of the entire mosaic through the app.

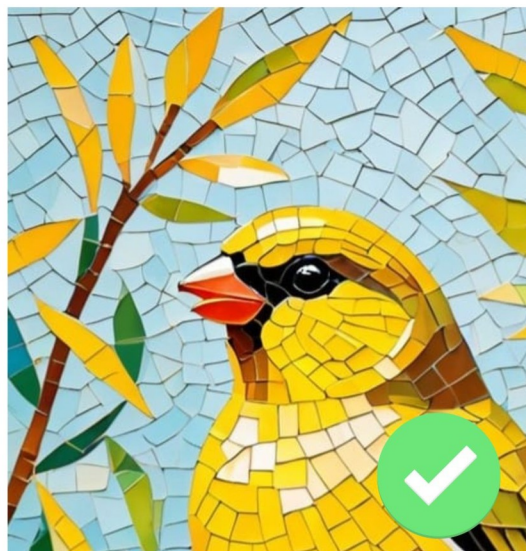
1) The app must intelligently divide the image that I upload into tiles to form a mosaic. The tiles must be: closed, monochromatic and have a "soft" shape, not too sharp.



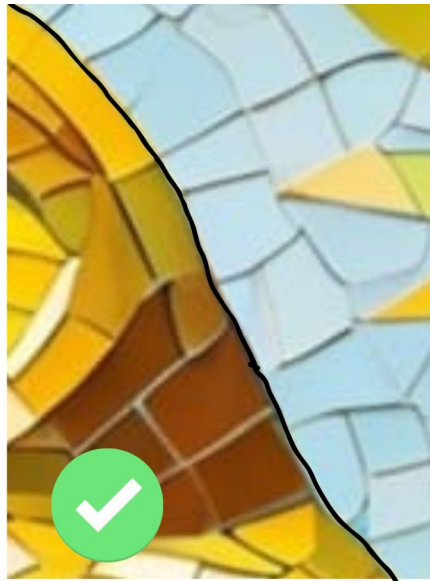
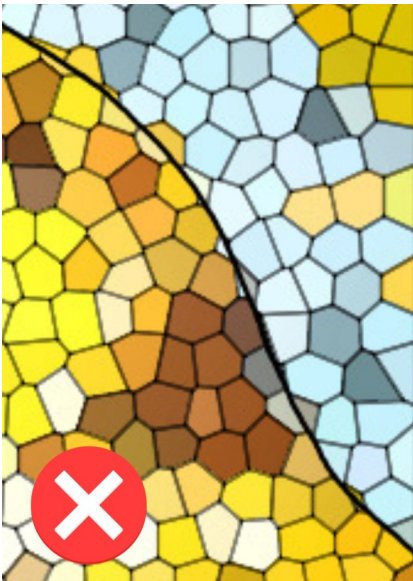
2) the thickness of the outlines of all the tiles put together, which will be the "path" of the drawing, must be manually adjustable and must be exportable separately from the drawing.

3) The app must be able to process images with a transparent background and with empty areas inside it (the empty areas can also be inside the drawing and not only in the background). Obviously these empty areas must not be filled with tiles, only the subject must be filled with tiles.

4) The app must be intelligent enough to identify the main lines and outlines of the drawing and adapt the tiles so that they are adjacent to these lines and follow them for the entire length.



Tiles adjacent to the outlines must be "whole", that is, they must not be broken to fit the outline and must follow the outline in a harmonious way to give a pleasing effect.



These 4 are the fundamental requirements that the app must have.

Ideally, the app should be so efficient that it can independently manage the composition of the mosaic, identifying the main and fundamental lines of the design and managing the density and size of the tiles based on the level of detail of the areas of the design.

If this is not possible or if it is not possible to guarantee its correct success, a way to manually intervene to make some adjustments would be needed.

For example, if the app is unable to correctly define the main lines, then I must be able to indicate them manually, perhaps by importing a layer mask that "forces" those lines or by drawing them in the app.