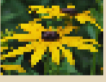


Lab 12

- follow the instructions in the lab handout
 - include all the specified parameters for the drawing functions for the artistic effects

effect	example	function parameters	how it works
pixellate		<ul style="list-style-type: none">• source image• position and size of the drawing area• rectangle size	<p>Cover the drawing area with rectangles, taking the fill and stroke colors of each rectangle from the image pixel corresponding to the center of the rectangle. You may need to turn off smoothing to avoid slight gaps between the rectangles. Note: be careful not to draw rectangles that extend past the edge of the image.</p> <p>Your function should work with any size rectangle, but experiment with different values to find one with a pleasing effect to use in your sketch.</p>

- leave a border around the edge – the image should not fill the window

Your task is to create a sketch named `lab12a` which applies an artistic effect to an image. Choose one of the artistic effects described in the "Artistic Effects" section [below](#).

Leave a border of the background showing as in the example. (The background can be any color; it doesn't have to be black.) Create a drawing function for the artistic effect.



Lab 12

- credit the source of the images used in #3

You are also free to use other images but **you must have permission for all images that you use**. This means that the image is one of the provided images above, a picture you took or created, a picture someone else took or created and gave you permission to use, or an image that you found on the Internet that explicitly allows you to use it. There are many public domain images that are fine to use, but not every image is public domain! Include a comment in your sketch identifying the source for each image that you use. (Give the URL if the image came from the Internet.)

Midterm Project

- the main issue was missing requirements
 - read the handout carefully as you are planning
 - check over the handout again along the way and when you are done

Midterm Project

- commonly missed elements

- Include a comment at the beginning of the sketch with your name and a description of your sketch — identify the sequence of actions, what triggers each new stage, and the final goal. Also identify how you satisfy the requirements marked with (*) above — include a comment at the beginning of the sketch or just before the relevant section of code, as appropriate.

- Put only drawing into drawing functions — do updates in `draw()`, not in a drawing function.

- At least three actions that last for two or more stages (but not every stage). In the demo, these actions are:

1. The pendulum keeps swinging after it hits the floating platform. (stages 3-5)
2. The floating platform swings after it is hit by the pendulum. (stages 4-5)
3. The red ball keeps bouncing after it falls off the end of the ramp. (stages 3-5)

It is not necessary for a multi-stage action, once started, to last for all of the remaining stages (though that is the case in the demo). For example, it would be fine for an action to only last for stages 2 and 3.

- At least two instances of some compound thing (three or more shapes) drawn by a function with appropriate parameters. The instances must be interactive or animated in different ways; not interactive or animated is a possibility for one instance. (Not satisfied by the demo.)