Processing Project #1

# Combination of three modified examples into one program

Task:

Combine the following examples into one program with making modifications

* Embedding Iteration: <https://processing.org/examples/embeddediteration.html>
* Distance 2D: <https://processing.org/examples/distance2d.html>
* Get Child: <https://processing.org/examples/getchild.html>

Implementation:

The combined program initially displays a menu on the top right side of the frame/screen for the user to choose which of the program to run. G4P library was used.

The frame size is (830, 420). Embedded/nested frame size is (640,360).

A screenshot of a computer

Description automatically generated

* **Embedding Iteration**

The Embedding Iteration example appears as a response to iteration button click. It is modified so that the focal point (i.e., the point where the lines meet) can be chosen by mouse click. It was achieved by changing the center to the mouse click location in the original code.

A screenshot of a computer screen

Description automatically generated

Figure 1 Default Embedding Itertaion Screen

A screenshot of a screenshot of a computer

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Figure 2 Embedding iterations response to the mouse press

* Distance 2D

The Distance 2D example appears as a response to the 2d-Distance button click. It was modified so that the size of the ellipses are toggled when left mouse is clicked.

A screenshot of a computer screen

Description automatically generated

Figure 3 Distance 2D Example default view

A screenshot of a screen

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Figure 4 Distance 2D Examples response to left mouse button click

* Get Child

Get Child example launches in response to Get Child button, it was modified so that 7 states' colors rotate through the rainbow colors. It was achieved by shuffling colors.

A map of united states with different colored states

Description automatically generated

A screenshot of a map

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