IAT167 - Lab 1 Tutorial

Processing IDE Discussion: 10-15 min

- About Processing and IDEs in general: Text Editor, Debugger, Compiler, Console, Status Bar, Menus

- Where and which version of Processing (3.5.3) to download and what they will need to do for their own machines https://processing.org/download/

- Link for Processing's methods reference: https://processing.org/reference/

- Where to find processing on the lab machine: Windows Menu + Q, then type "Processing"

- About Processing IDE: sketch, sketchbook, play, stop, canvas, save, save as. How and why Processing saves sketches as project folders.

- Explicit convention for assignment submissions (+Demo of it):

LabNumber_FirstName_LastName_AssignmentNumber_StudentNumber, e.g.

D101_John_Smith_Assignment1_1234567, and then zip the whole sketch folder

before they submit (demonstration). Also, double-check your zip was properly created by attempting to open it.

Failing to follow this naming convention in your assignments will unfortunately make you lose points. So, please don't skip this step.

Color Tutorial: 20-30 min

live guided demonstration for:

- stroke (..), fill(..), and strokeWeight (..)

- Color systems in Processing: fill(k), fill(k, a), fill(r, g, b), and fill(r, g, b, a); //where k = grayscale value

Shape Tutorial: 30-45 min

Drawings are just direct draw without using any translation, push- popMatrix yet

- Draw a bear using the shapes drawn in Processing APIs for drawing

- Covered: lines, rectangles, ellipses, arcs, curves, etc.

Lab Challenge

This challenges you to do your own job based on what they have just learned.

- Whatever figure we did together, you must change at least 3 of the shapes that represent the features, and one of them must involve using curves

- Example: Ellipse eyes are now rectangular sunglasses, arc ears are now triangular... etc. Feel free to use your own examples here.

*******Grading of labs*******

Total grade is out of 5, among them 2pts for attendance, and 3pts for how much and how well they have completed the lab challenges.