CORE 03 Curious Furious due 16 sep 2019

Use your faults, use your defects; then you're going to be a star.

— Edith Piaf

This is an individual core skill-building assignment. In this assignment, you will demonstrate skills with working with the Raspberry Pi and the CRICKIT HAT using python as a programming tool. Building on the examples we worked through in class, you will use the capacitive touch sensor as input and the digital servo motor as output. While the board hardware enables a wide range of other inputs and outputs, in this assignment your design will be constrained to use only the capacitive touch and digital servo. In your design, you will express two unqiue kinematic outputs – *curious* and *furious*. When you touch the capacitive sensor the servo motor will express a "curious" output using only the servo motor. If the capacitive sensor is continuously touched for more than 10 seconds, the "furious" expression should emerge (again using only the servo motor). Finally, when the capacitive sensor is not touched, there should be no motion at all. Bring your functioning design to class on 16 Sept for critique. Also, as always, document your work and upload a video containing a short (no more than 60 sec) video of your design in action moving through the various expressive states. When making a video (1) please shoot in landscape mode, (2) fixture your camera/phone prior to shooting the video, and (3) check lighting.



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