

# Curriculum Review: Networked Interactivity: FA23

## I. General Introduction:

- Historical works (Olia Lialina, "Hole in Space")
- Mac OS as Unix derivative, Small "Eliza" program in python

## II. Web Technology: File types and Protocols

- TCP/IP, HTTP,
- html, css and javascript

## III. Deeper into Web Tech: FTP accounts on a playbx.org (ftp Clients like Cyberduck)

- Playing with Web examples: CSS and javascript

## IV. Javascript and the Free Software Movement

- Introducing another language: PHP

## V. Introducing the Raspberry Pi

- Linux Operating System
- Python programming language and hardware (GPIO pins)

## VI. Continuing with Telerobotics projects

- Pi Camera as video stream

## VII. Integrating Raspberry Pi With microcontroller (Arduino)

- The Arduino
- Serial communication with Arduino for Servo motor control

## VIII. Web Interface to Camera Interaction

- Timelapse Python script called from PHP

## IX. Working with Data: OSC and Data Visualization

- Processing examples: NYTimes API

## X. Virtual Worlds and Machinima

- SecondLife

## XI. The "Dark Web", Free Culture and "Internet of Things"

- Image Map examples, Holly Herndon & A.I-Artists advocacy

## XII. Visiting Artist: Nettrice Gaskins

## XIII. In-Class Work Day

## XIV. Reflections on success of final projects