

## Handout: PCW 3 – Microcontrollers, APIs, sonification, and big data

<b>Preamble</b> <ul style="list-style-type: none"><li>• Discussion “Interaction” reading</li></ul>	
<b>Getting familiar with the Arduino board</b> <ul style="list-style-type: none"><li>• Exercise 1: Arduino as an IKEA kit and “Hello, Wolrd!”</li><li>• Exercise 2: using a push button to control a LED</li><li>• Exercise 3: fade an LED</li><li>•</li></ul>	
<b>Basic interactive behavior activities: mappings sensor data to sound</b> <ul style="list-style-type: none"><li>• Exercise 4: Arduino 8-bit sound generation</li><li>• Exercise 5: serial output from P5.js</li><li>• Exercise 6: Visualize live sensor data</li></ul>	
<b>Rehearsal and performance</b> <ul style="list-style-type: none"><li>• Rehearsal</li><li>• Performance</li><li>• Reflection</li></ul>	