

Introduction to Physical Computing

Tuesday 7/1/2020

Schedule

- Alternative Controllers
- Lab
 - Sending data from Processing to Arduino
 - Capacitive Touch sensors
- Questions

Office Hours

- Thursday 12pm -4pm
- Friday 12pm - 4pm

Alternative Controllers

- A means of interacting with a digital game that involve standard inputs like a joystick, gamepad, keyboard, mouse, and in some instances a screen
- Flipping the table, Japanese arcade game:
<https://www.youtube.com/watch?v=08cTdFqwdwc>
- Other examples: <https://shakethatbutton.com/>

Hegemony of the Controller

- Brendan Keogh, “A Play of Bodies”
- Using a game controller involves an embodied, habitualized knowledge
- Games Industry encourages games that are easily adaptable to a certain kind of controller
- Enforces embodied learning
- Years of mastery
- Can be inaccessible to those who are not familiar with these controllers
- Promotes the notion that players are “dominating” a machine system

Queering the Controller

- Jess Marcotte
- Alt-Ctrls provide a means of “queering” the controller
- Provide a means of critiquing and reacting to the status quo
- Alt-Ctrls are often not meant to be mass produced
- Use cooperation, intimacy and discomfort as game mechanics rather than technical skill

Speculative Making

- DB Bauer
- A radical practice
- “Maker technologies” like 3D printers, laser-cutters, etc. have become democratized
- By making 3D objects, you introduce possibilities into three dimensional space
- The accessible nature of these technologies allows for the introduction of objects and possibilities that
- Read more: <https://dbbauer.com/>

GDC Alt-Ctrl

- One of the most well known alt-ctrl showcases
- All selected games:

<https://www.gdconf.com/news/check-out-20-unique-games-you-ll-play-gdc-2020s-altctrlgdc-showcase>

Guilty Smells

<https://vimeo.com/358338258>

Our Sutured City

<https://www.youtube.com/watch?v=Ra3yWLsSGGA>

Hug Machine

<https://www.youtube.com/watch?v=3-br1nx-cng>

Cursed!

<https://vimeo.com/376492309>

The Sword

<https://www.youtube.com/watch?v=Kwi6uEYIEXU>

Far Away Cage

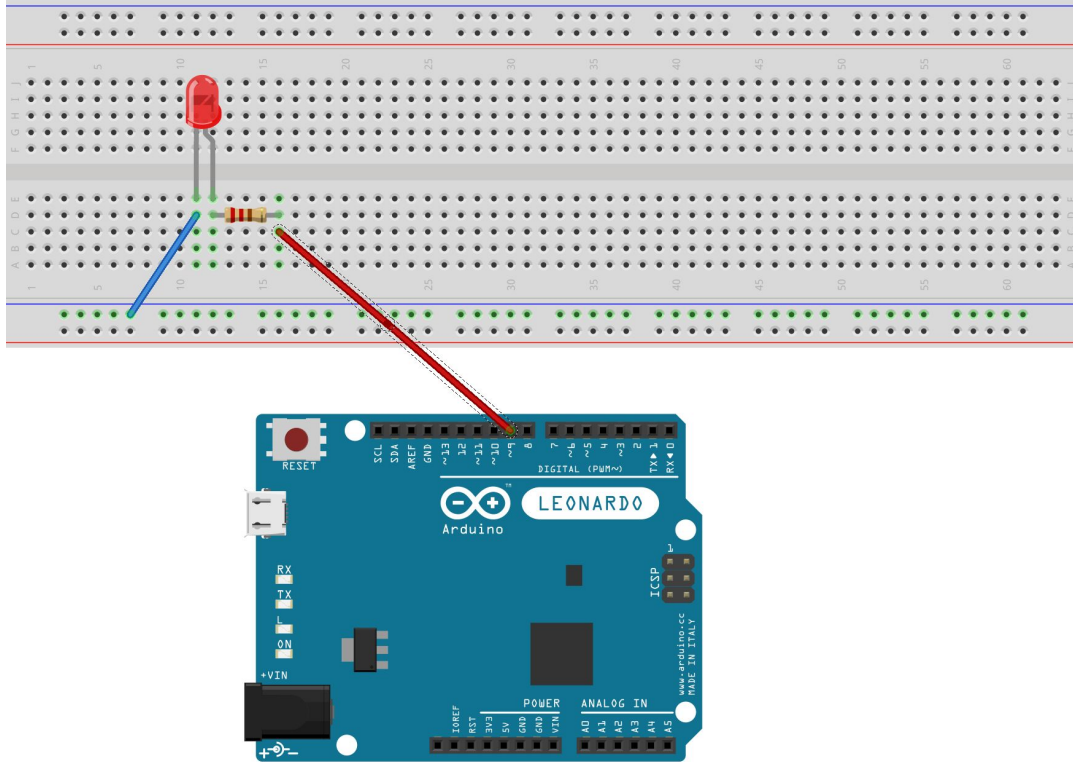
<https://www.youtube.com/watch?v=VZ32iJRNlec>

Plug-Plug

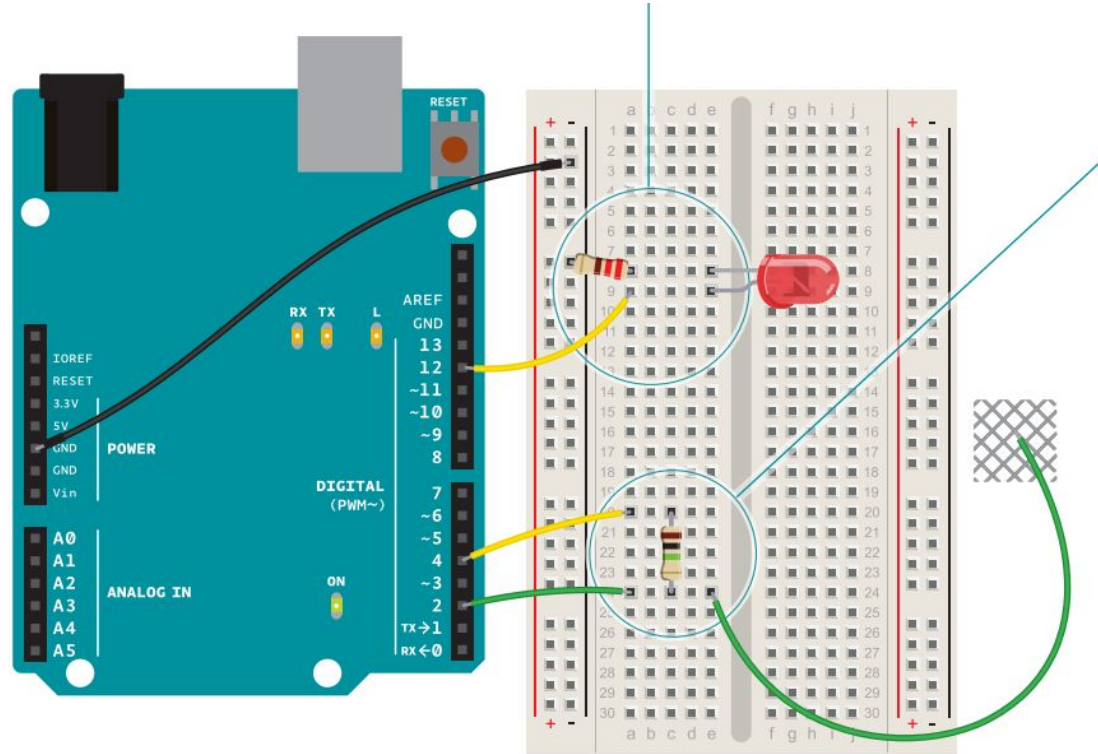
<https://www.youtube.com/watch?v=EXpe0No9qjU>

==LAB==

Sending Data from Processing to Arduino



Touchy Feely Lamp



Questions

- Time to work through some of the technical issues you have been facing with your projects