

# Human Chain Workshop

Kaho Abe

Incubate Arcade

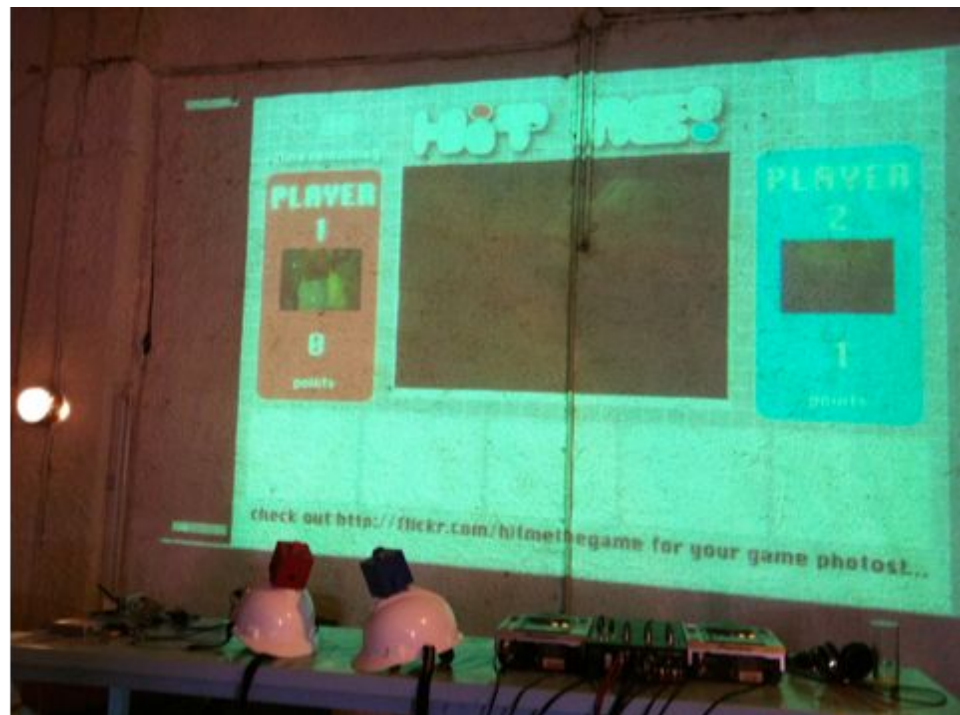
Tilburg, Netherlands

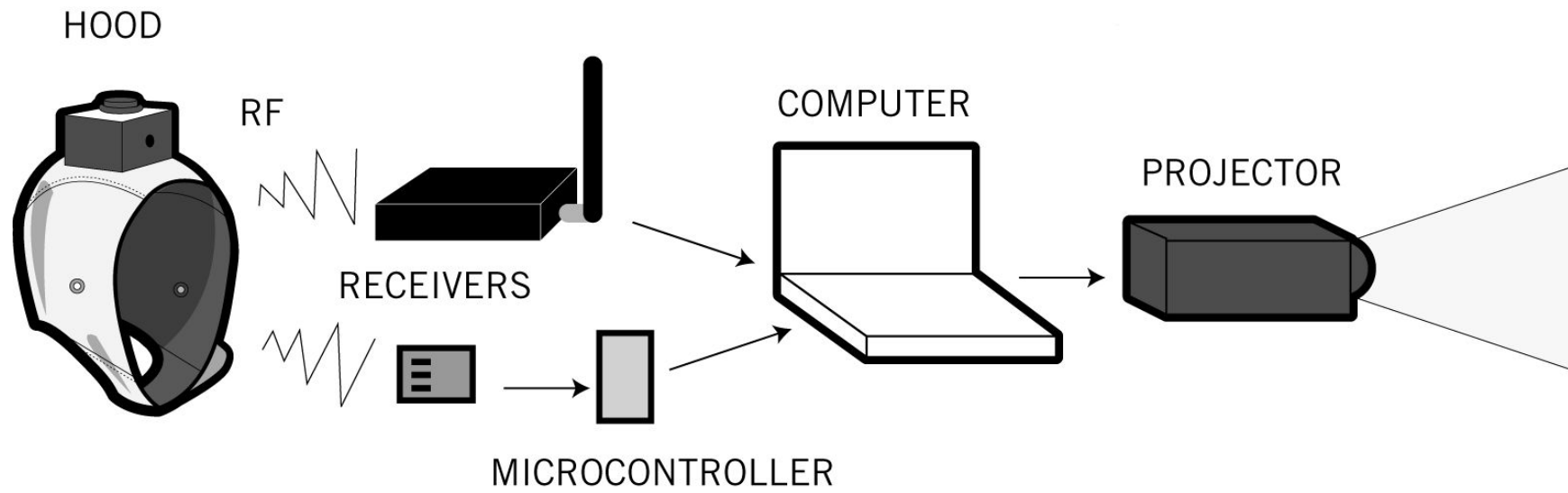
September 10th, 2016









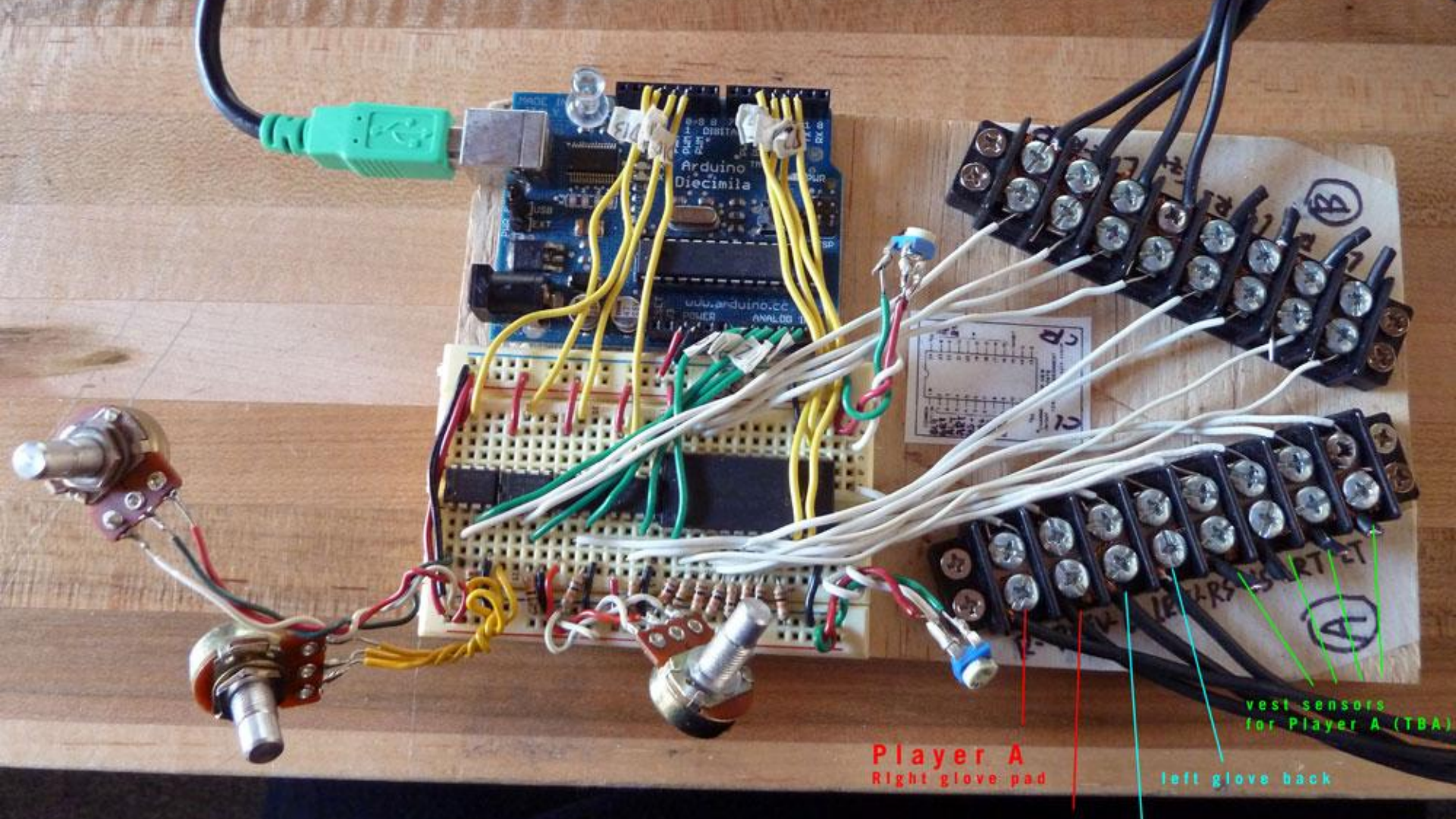












**Player A**  
Right glove pad

left glove back

vest sensors  
for Player A (TBA)











# Introductions:

Name

Where are you from?

Why did you sign up for the workshop?

What kind of games do you like to play?

# Tools:

## Arduino

1. Open Source
  - a. Accessible - free
  - b. Community
  - c. Giving back
2. Versatile

## Processing

1. Open Source
2. Visual
3. Versatile

# Download:

<https://www.arduino.cc> >>Learning >>Getting Started

<https://processing.org/> >>Download

Concepts to Consider  
**Before**  
Making Technology



# It's about the people!

Designing human centered experience vs. tech centered experience.

Who's involved? Players & Spectators... more?

What interactions would you like them to have?

Games as opportunities for interactions. “Emergent behavior”.

# Brainstorm Activity: 10 minutes in groups

Think about and write down on a list games and experiences that use human touch with hands...

Red Rover

Holding Hands All Day Challenge

Holding Stranger's Hand as a Child

Kids Poking Each Other

etc...



# Interaction

Cause and Effect.

What is the result of the interaction?

What is the role of the technology in the interaction?



# Technology as Judge



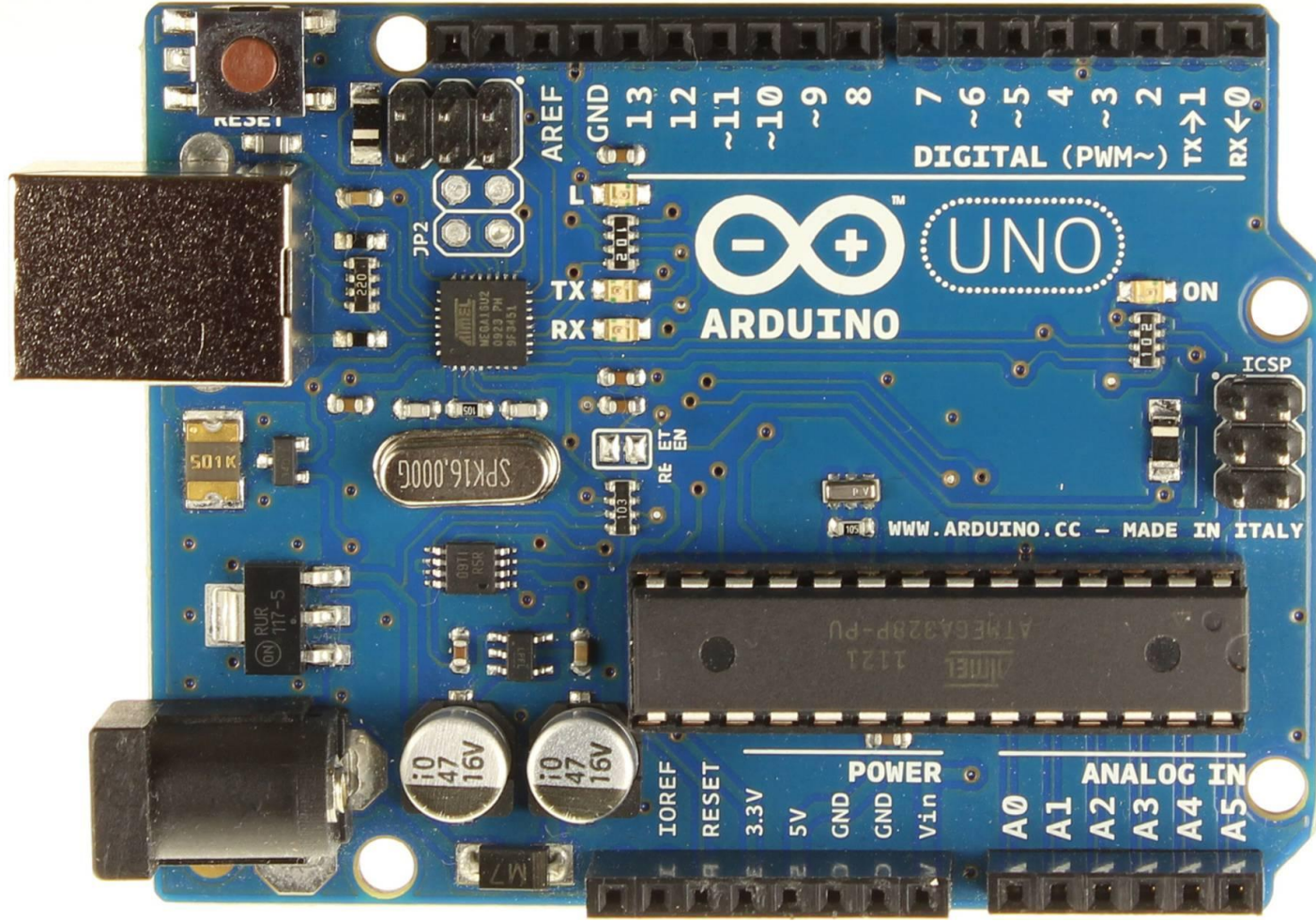
# Technology is Magic!

What does it mean to “hide” the technology?

What are the benefits of hiding the technology?

# The Circuit





# Materials

Resistor



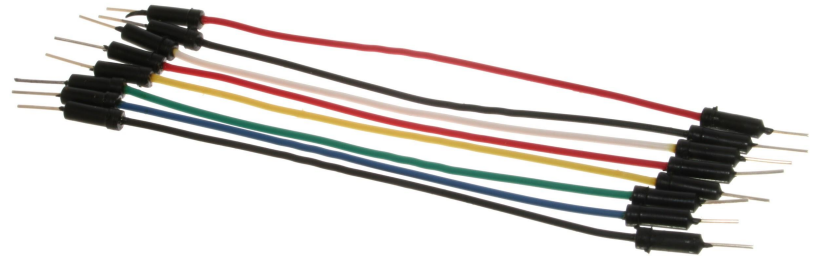
capacitor



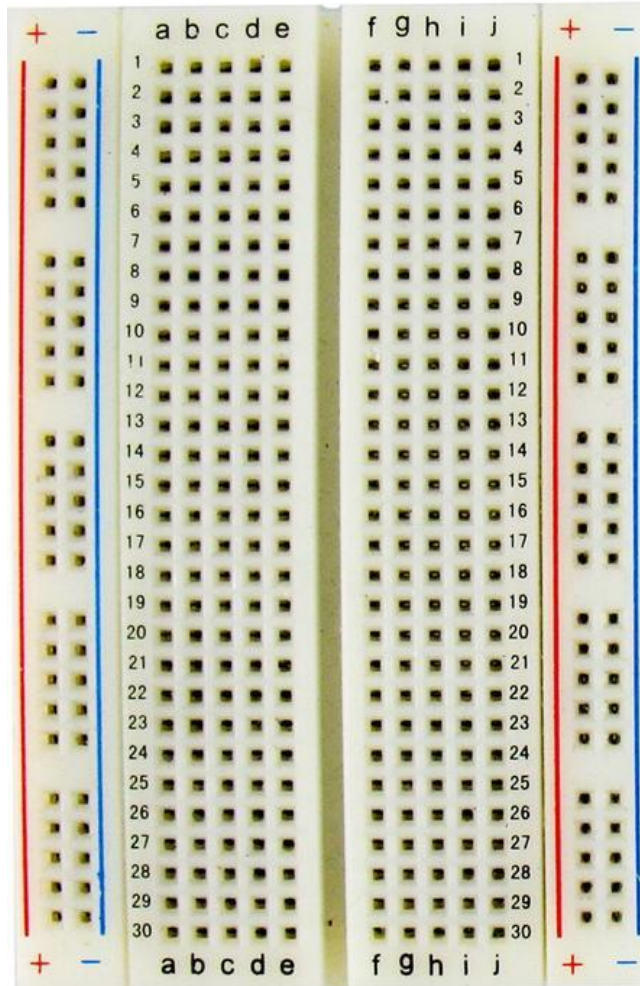
Alligator Clips



Jumper Wires

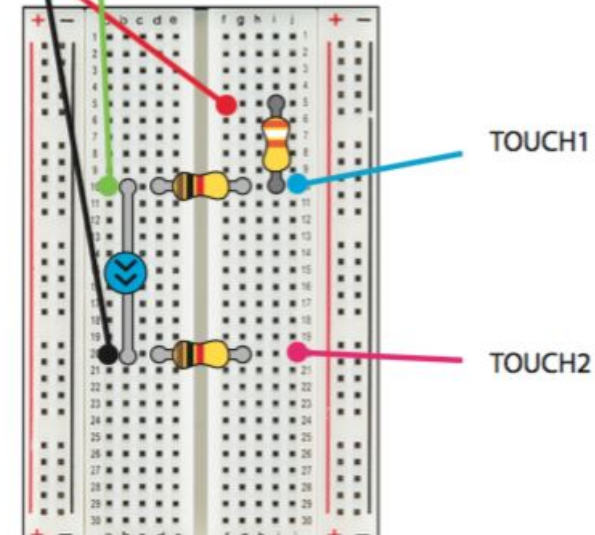
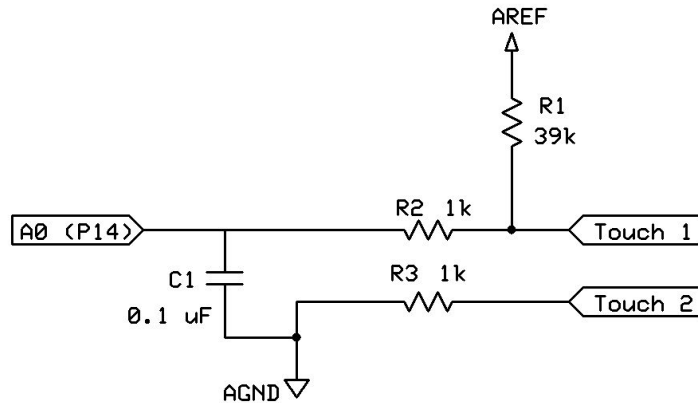


Bread Board





# Building the Circuit



Using the template on the bread board, build the circuit.



# Example Game: Miniature Tag

Miniature Tag is a small tag game played by 2 people.

2 people must stand face to face 1 ft apart.

During each round, a player must take turns attempting to tag the other player.

# Thank you!

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