

# Body Sensor Networks

Chris Mower, Kuo Wong

MuMuse

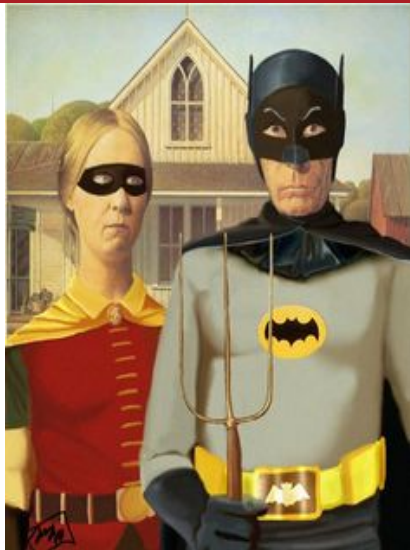
# This Talk

- Exhibition
  - Paintings
  - Sensor set-up
- App layout
- Code overview
- Integrating Machine Learning
- Stuff Chris doesn't understand. \*\* NEED BETTER NAME \*\*
- Quick Demo

# Exhibition

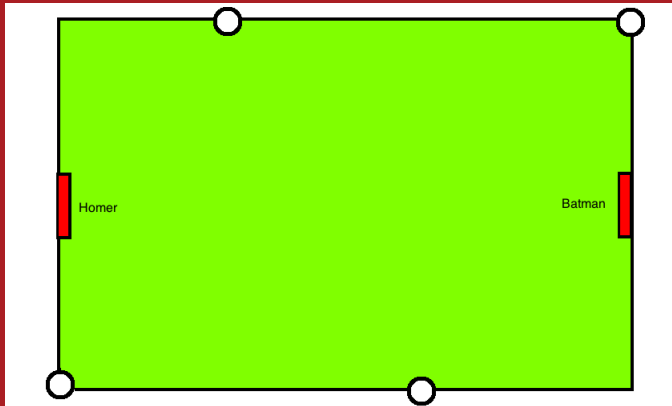


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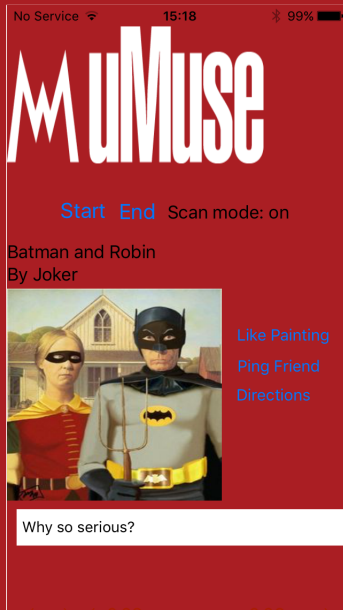
Body Sensor Networks

# Sensor Layout



Width: 50cm, Length: 100cm

# App Layout



# Main Program

```
1  -(void) main:(NSObject *) RSSI {
2      NSObject RSSI_use =
3          [self discardMostDistantSensor(RSSI)];
4      double position =
5          [self getPosition: RSSI_use]; // x, y values
6      double dist2painting1 =
7          [self computeDistance: position: painting1];
8      double dist2painting2 =
9          [self computeDistance: position: painting2];
10     [self reportPosition2server: position];
11     int nearestPainting = 1;
12     if (dist2painting1 > dist2painting2) {
13         nearestPainting = 2;
14     }
15     [self updateImageViewer: nearestPainting];
16 }
```

# Integrating Machine Learning

- Learn the most liked painting (not really ML)
- Learn the most walked path.
- Attempt to use walked paths to identify groups/couples.
- Given a new painting with new path, use as indicator of paintings monetary value (new idea).

# Kuo chat about:

- stuff that Chris doesn't understand..
- (Chris sets up and performs demo after Kuo finished)



# Quick Demo



Thank you for listening!  
Any Questions?