





# X-Tune



# Whoareus!



- **Hidehisa Arai** 
  - Exchange Student from The University of Tokyo
  - Future Data Scientist
- **Yuyan Zhao** 
  - Exchange Student from EPFL
  - Future Data Scientist
- **Luca Corbucci** 
  - Erasmus Student from University of Pisa
  - Future Data Scientist
- **Samin Hamid** 
  - Erasmus student from Sapienza University of Rome
  - Future Data Scientist

**A bunch of International Data Geeks!**

# Inspiration - Functionality

Body | sound | technique | improvement

- Through our app, whether you're a professional or a beginner athlete, improve & learn your techniques the easy way



# What X-Tune does

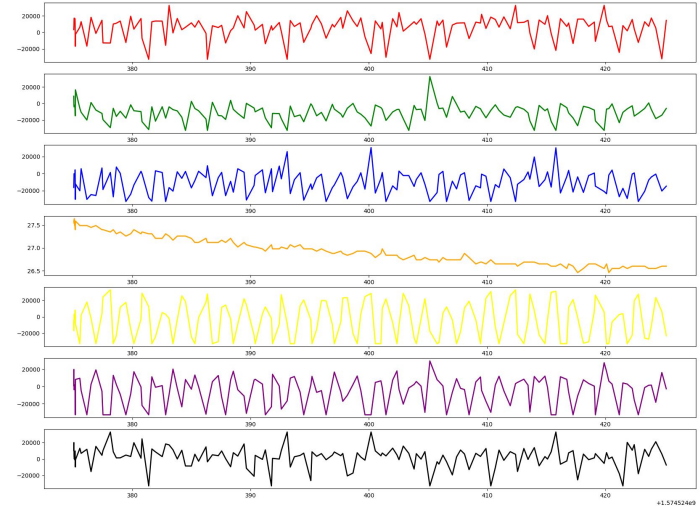


- Analyzes our body movements through turning them into tunes

**Demo**

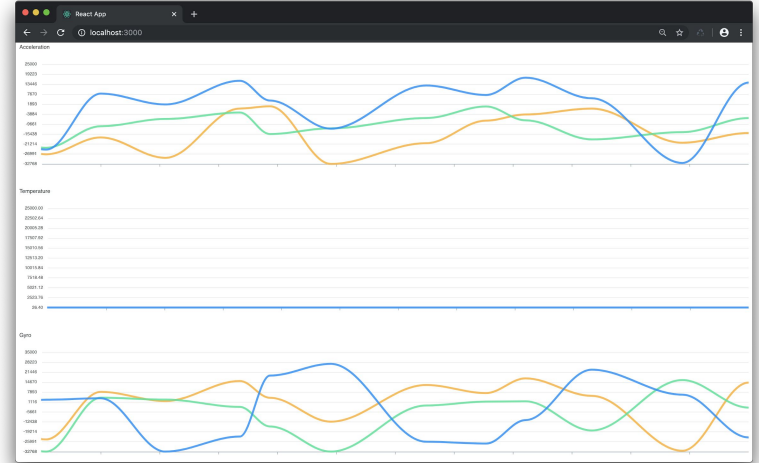
# Implementation

- Assembling the sensor (Arduino kit)
- Collecting body movement data (streaming in)
- Real time plotting in Python
- Calculate similarity between pre-set movement and movement of the player using Dynamic Time Warping
- Put some notes on our movement!



# Future works

- Real Time Data visualization in the browser
- Adding more pre-defined movements (for different sports)
- Evaluate player's movement.
- Make better music



**Thank you!**