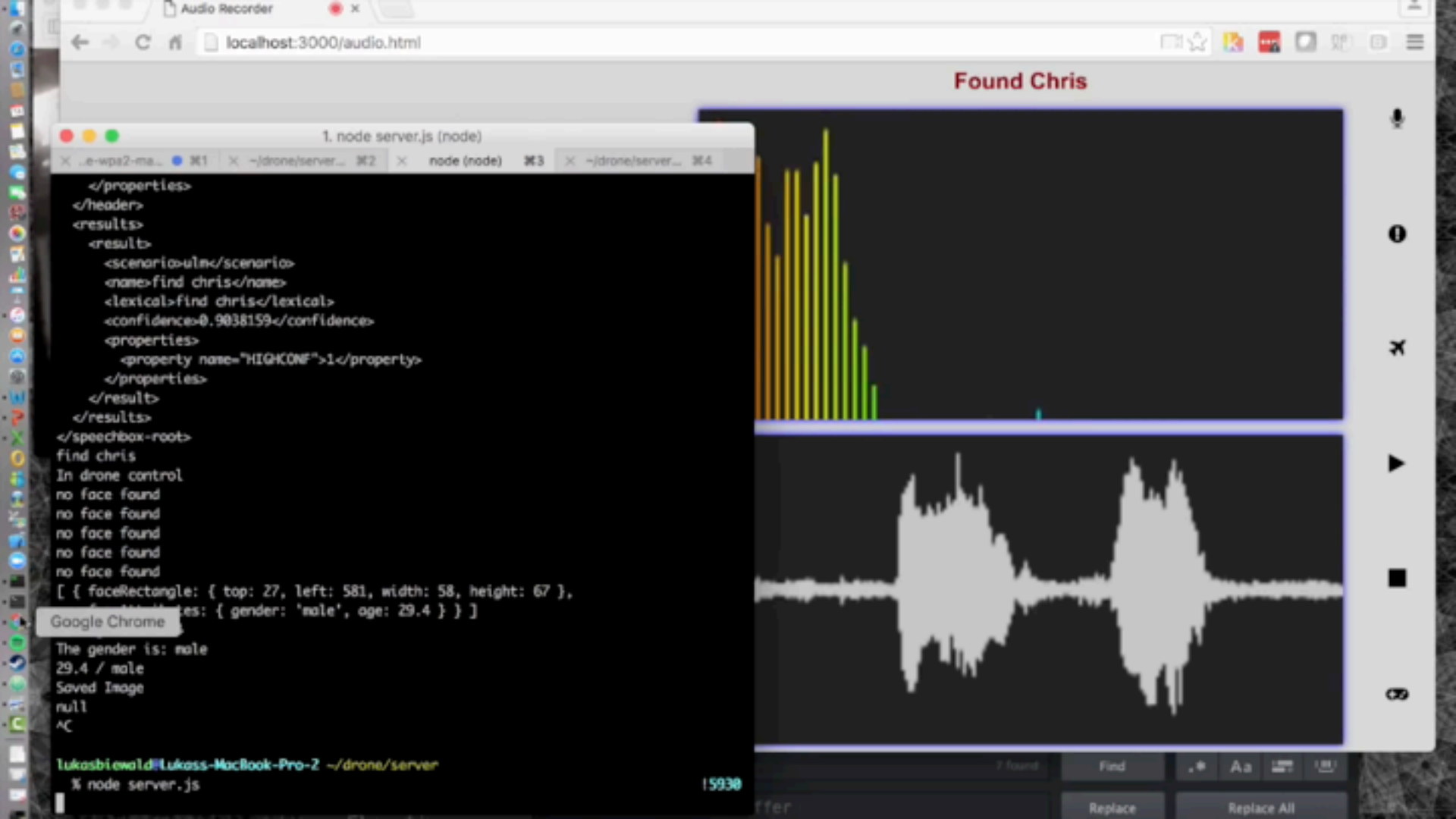
Agenda

2:00 - 3:00	Setup, Introduce Problem
3:00 - 5:00	Build an emotion classifier
5:00 - 5:30	Present results


Audio Recorder
localhost:3000/audio.html
Found Chris
1. node server.js (node)
</properties>
</header>
<results>
<result>
<scenario>ulm</scenario>
<name>find chris</name>
<lexical>find chris</lexical>
<confidence>0.9038159</confidence>
<properties>
<property name="HIGHCONF">1</property>
</properties>
</result>
</results>
</speechbox-root>
find chris
In drone control
no face found
no face found
no face found
no face found
no face found
[{ faceRectangle: { top: 27, left: 581, width: 58, height: 67 },
Google Chrome
The gender is: male
29.4 / male
Saved Image
null
^C
lukasbiewald@Lukass-MacBook-Pro-2 ~/drone/server
% node server.js
!5930
Find
Replace
Replace All

Smile :)

Smile Classifier - The challenge is to create a classifier that can distinguish a smiling face.

Setup

Be sure to clone this repository and unzip the data on your AWS instance

```
cd ~
git clone https://github.com/lukas/smile.git
cd smile
unzip master.zip
```

Get the Code!

- git clone https://github.com/lukas/smile

Ideas

Simple, Effective:

- Normalize train_X and test_X
- Add dense layers
- Add convolutional layer(s)?
- Add dropout
- Change learning rate
- Experiment with activation functions

Fancier, Maybe Effective:

- Data Augmentation (https://blog.keras.io/building-powerful-image-classification-models-using-very-little-data.html)
- Transfer Learning (https://www.learnopencv.com/keras-tutorial-transfer-learning-using-pre-trained-models/)
- Other ideas?

Extra credit:

- Deploy!

Learn More

Books

- Deep Learning Book (http://www.deeplearningbook.org/)
- Artificial Intelligence: A Modern Approach

Classes

- Stanford CS229, CS231n
- Fast.AI
- Udacity/Coursera
- My classes (lukasbiewald.com, doloreslabs.com)

Hands-on

- kaggle.com

Facebook Group

- Dolores Labs (http://bit.ly/DLQCFB)

Survey:
http://bit.ly/QCaiFeedback4