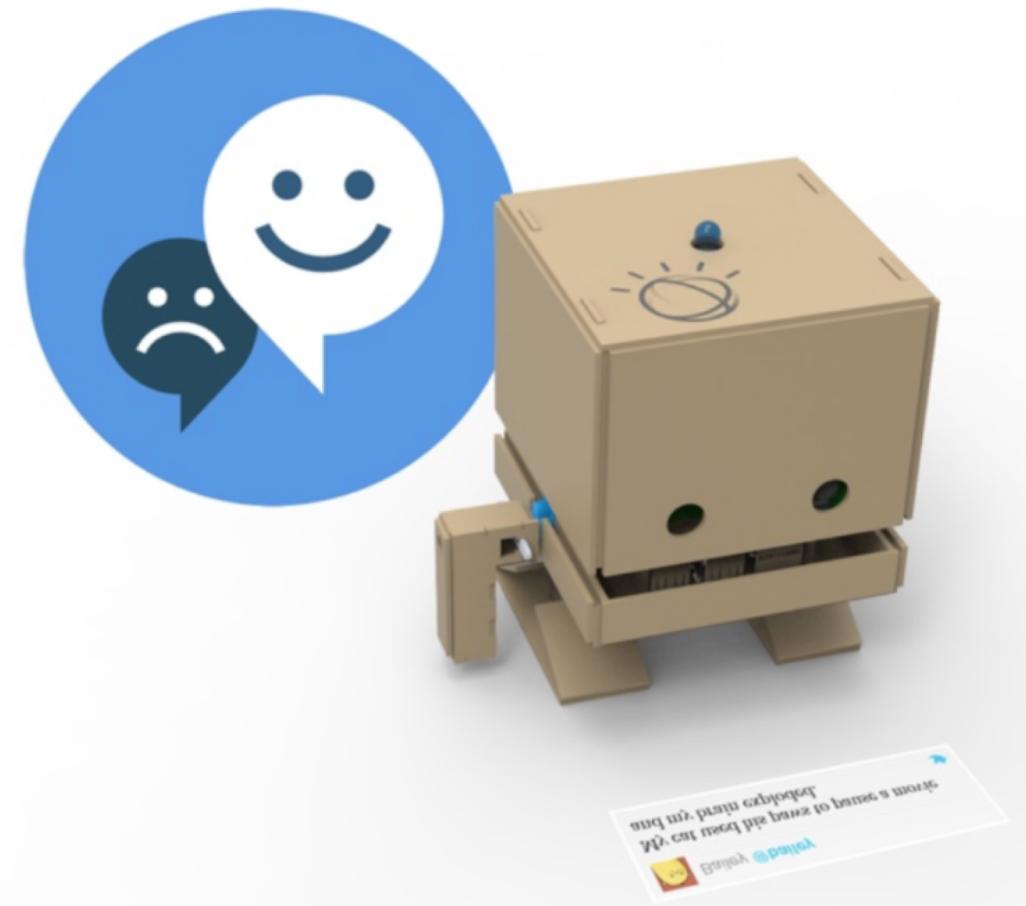


What is TJBot?

- A cardboard robot
 - Simple, approachable
 - Open Source (design, code)
 - Cognitive (IBM Watson services)
 - Extensible (prototyping platform)



Components: Raspberry Pi, LED, Camera,
Microphone, Speaker, Servo.

How Does Watson Enable TJBot?

Listen

Watson [Speech to Text](#) service converts spoken speech to text that can be analyzed

Speak

Watson [Text to Speech](#) service converts text to sound using various voices.

Understand

Emotions

Watson [Tone Analyzer service](#) can infer the emotion within text. E.g., it can tell if a message contains emotions like happy , sad, angry

See

Watson [Visual Recognition service](#) can understand the content of an image and describe it.

Translate

Watson [Language Translate service](#)



Understand Conversations

Watson [Conversation Service](#) can respond to users in a way that simulates a conversation between humans.

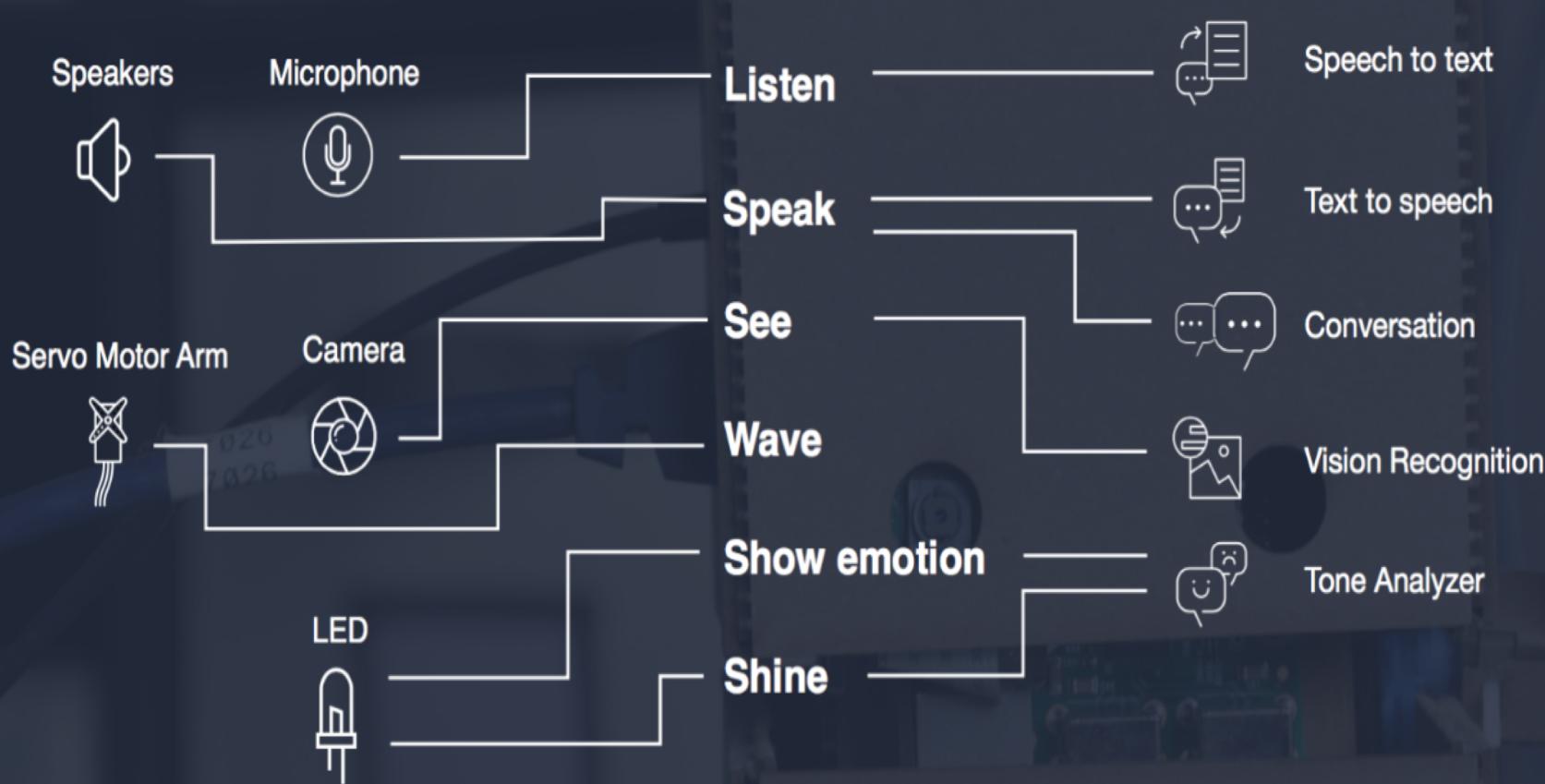
TJBot Sensors



Example Capabilities

Example Watson Services

Example Use cases

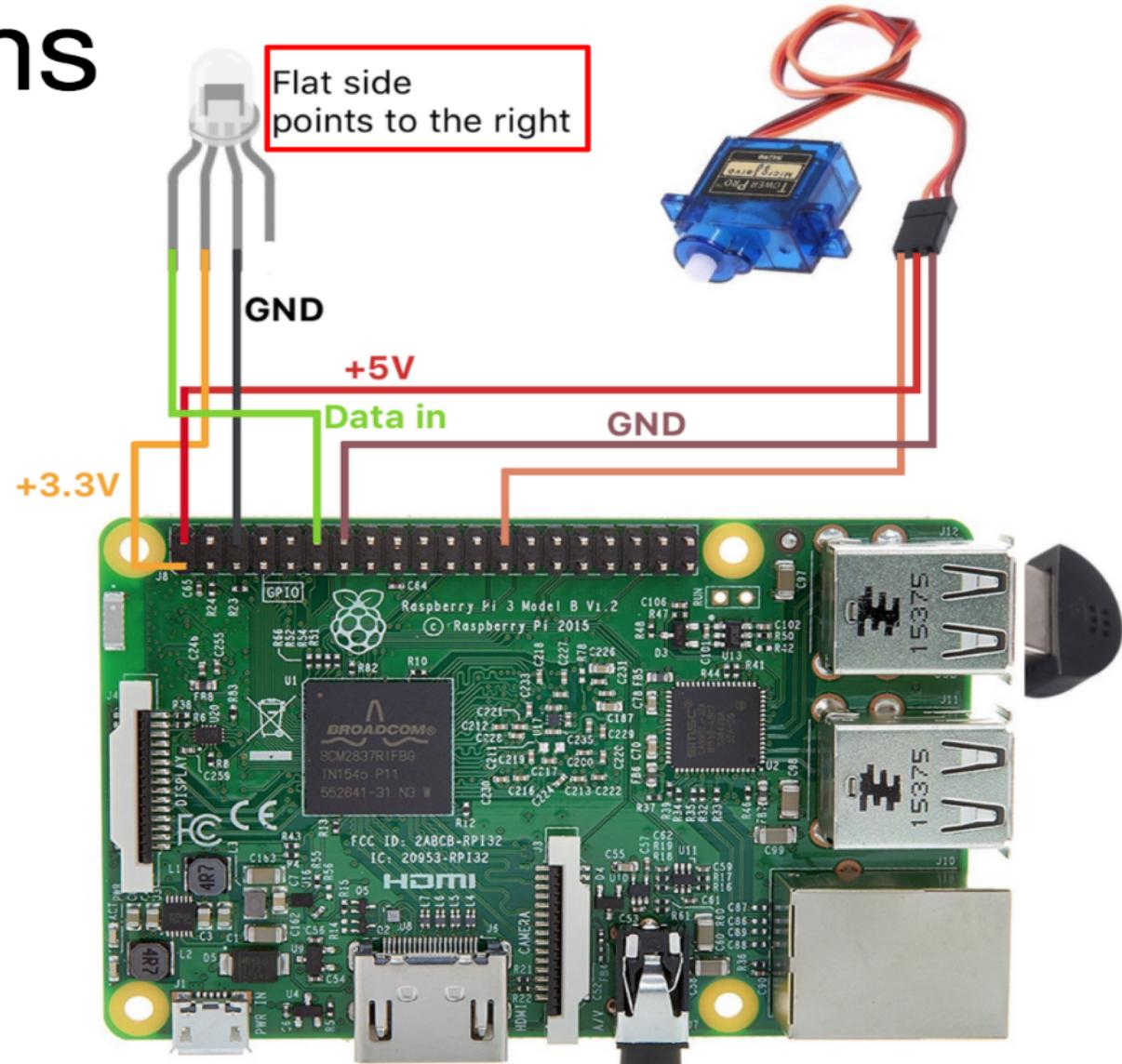


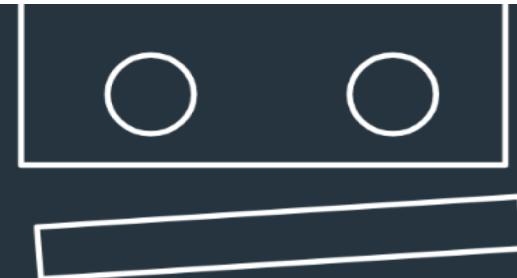
Programming TJBot

- Getting started
- Tying stuff together



Instructions





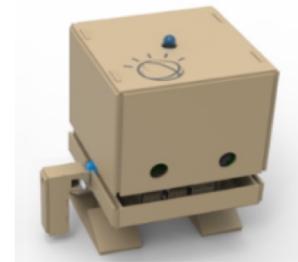
Wi-Fi

User: [REDACTED] ?

Password: [REDACTED] ?

How do I Access my TJBot?

1. Turn your Raspberry on!
2. Place your mouse over the Wi-Fi symbol
3. Get your Raspberry IP
4. Go to the terminal in your pc/ PuTTY
5. Execute the command: `ssh pi@000.000.0.000`
6. Password: `raspberry`
7. You can also access your local node-red by opening the browser: `000.000.0.000:1880`



YOU JUST HAVE TO TRAIN CONVERSATION.

THE OTHER SERVICES ARE ALREADY TRAINED.

HOWEVER, YOU CAN ADD ADDITIONAL TRAINING TO VISUAL RECOGNITION AND DISCOVERY.

Commands

```
cd Documents/tjbot/recipes
```

```
ls
```

```
conversation README.md
```

```
sentiment_analysis speech_to_text
```

If you want to use conversation

```
cd conversation
```

```
sudo node conversation.js
```

If you want to use sentiment_analysis

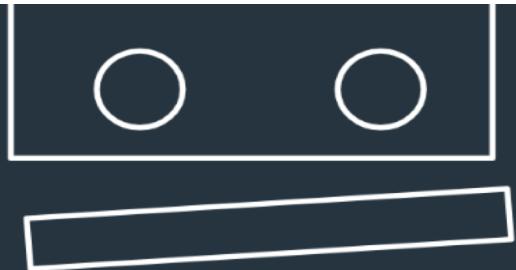
cd sentiment_analysis

sudo node sentiment.js

If you want to use speech_to_text

cd speech_to_text

sudo node stt.js



Let's Hands On!

GitHub to access content

[https://github.com/sergiogama/
tjbot](https://github.com/sergiogama/tjbot)

