Chapter 4: Getting Watson to talk back

Learning Bluemix & Cognitive

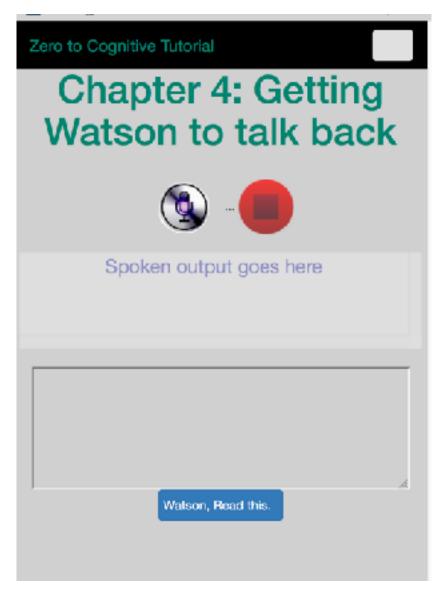
Bob Dill, IBM Distinguished Engineer, CTO Global Technical Sales

Git Repository: https://github.com/rddill-IBM/ZeroToCognitive



Chapter 4: Getting Watson to talk back to you

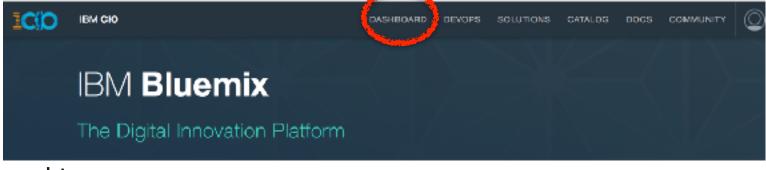
- Get the Watson Text to Speech Service
- Accessing your Watson credentials
- Telling Watson what to say
- The interaction flow



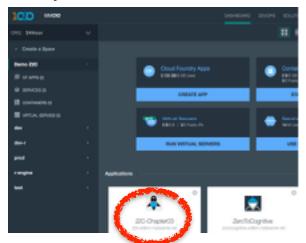


Watson Speech to Text

Add the service:



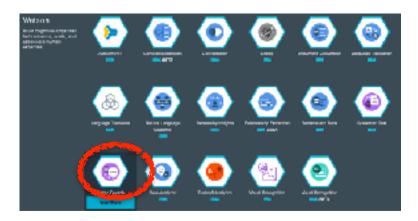
Go to your Bluemix dashboard and to your app.



Add a service or API



Select Watson Text to Speech



Get your credentials





Update your env.json file

add a second JSON object to the file and insert your text to speech credentials.

```
"speech_to_text": {
   "version": "v1".
    "url": "https://stream.watsonplatform.net/speech-to-text/api",
    "password": "your watson speech to text password",
    "username": "your watson speech to text user name"
 },
"text_to_speech": {
    "version": "v1",
    "url": "https://stream.watsonplatform.net/text-to-speech/api",
    "password": "your watson text to speech password",
    "username": "your watson text to speech user name"
```

Add a new function to the controller speech_to_text file

```
22
23 exports.tts_synthesize = function(req, res) {
24    console.log("tts_synthesize entered");
25
26 }
```

update index.html

Add rows to support a input text area, a 'read this text' button, and a player.

update z2c-speech

Add a new event listener to the initPage function:

Add a new function to the file

```
48 function onCanplaythrough() {
49   console.log('onCanplaythrough');
50
51 }
```

You've done it!! Congratulations

■ At this point, you have successfully used your second Watson service, text to speech.



The Plan: 30 minute Chapters with an hour or two of practice

1. The Story, Architecture for this app

2. Setting up Bluemix

3. Building your first Watson App (Watson Speech to Text)

4. Getting Watson to talk back (Watson Text to Speech)

5. Understanding Classifiers (Watson NLC)

6. Creating a custom dialog with Watson (custom Q&A, session management)

7. Authentication (puts C2 thru 6 together)

8. Alchemy News (Watson Alchemy)

9. Visual Recognition and Images (Watson Visual Recognition)

10. Watson Conversations (Watson Conversations)

11.Rank & Retrieve (Watson Alchemy + Rank & Retrieve)

Chapter 5: Understanding Classifiers

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