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| **Status Report W3** | **Student: Xin Dong** |

**Accomplishment**

-Read a large quantity of articles and materials to learn current speech-recognition availability, constrain, dependency and accuracy.

- Compared python speech-to-text library Dragon with SpeechRecognition. Decided using SpeechRecognition for this project.

- Learned other open source speech recognition system, such as DeepSpeech, Athena, Simon, Kaldi, Mycroft, Julius, Mozilla.

- Learned project related Python library.

- Looked into library example code and module.

**Plan for next week**- Start to build basic project code and test.

**References:**

<https://medium.com/bambuu/state-of-voice-coding-2017-3d2ff41c5015>

<https://blog.logrocket.com/programming-by-voice-in-2019-3e1855f5add9/>

<https://support.microsoft.com/en-us/windows/how-to-use-speech-recognition-in-windows-d7ab205a-1f83-eba1-d199-086e4a69a49a>

<https://pypi.org/project/SpeechRecognition/>

<https://github.com/DelmarZhao/VoiceKBM>

<https://www.geeksforgeeks.org/mouse-keyboard-automation-using-python/>

<https://www.thepythoncode.com/article/control-mouse-python>

<https://stackoverflow.com/questions/32005310/speech-recognition-python-code-not-working>