

Project Milestone Update, 07-300, Fall 2021

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1 Major Changes

The primary goal of this project has not changed since the previous milestone. It is still unknown what information we will be able to extract from this dataset.

2 What You Have Accomplished Since Your Last Meeting

I have finetuned the timestamp of each utterance calculation with a fork of [p2fa-visalab](#) which uses Hidden Markov Model Toolkit ([HTK](#)). I spent most of the last two weeks updating p2fa-visalab from its intended Python 2 to Python 3. I also ran into and had to fix a major error because this code was written in 2013 (See Surprises). In this time, I also created a python script to convert all the mkv to wav. Now I have words correctly aligned for any script I give it.

3 Meeting Your Milestone

I had originally planned to have a rudimentary model and a rough draft of the introduction. After realizing how inconsistent the pre-made timestamps of the subtitles were, proper alignment was required. This forced the time dedicated to creating the model to be pushed back another two weeks. At this stage, my plan to create the rough draft would have been pointless. After talking to Leila, she mentioned most of the alignment research won't be included and since we haven't test anything we are unsure what model we will even be using.

4 Surprises

The CMU project CMUSphinx no longer has an online POSTGRES pronunciation at <http://www.speech.cs.cmu.edu/cgi-bin/cmudict> (the link won't work). CMUSphinx was the primary word to phone tool used by p2fa-visalab, which is right before the word's phones get aligned to correct timestamp. This forced me to download a version of the cmudict and try to replicate the output for

p2fa-visalab. This was more difficult then it sounds, due to not knowing what the output should even look like.

5 Looking Ahead

During the next two weeks, I plan to have correct timestamps for each episode in season 1 of friends. Once that is complete, I can start work on creating the first model with Leila!

6 Revisions to Your Future Milestones

I am pushing back (again) my plans from the previous week. I am likely to still finish on time depending on how long it takes to train the models.

7 Resources Needed

No further resources are needed for this project at this time.