DSP HW3

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Setting

- Environment macosx
- Compile

```
# Compile mydisambig.cpp
make
# Generate map
make map
```

- Execution
 - Customize 'run' part in Makefile:

```
# Format
./mydisambig -text <testdata> -map <map> -lm <lm> -order 2 > <output>;
```

Implementation

1. Set up the environment

The installing process was very painful.

I encountered a weird bug. I spent so much time and finally found out it was because the path variable in Makefile does not allow 'space'. (i.e. user/byron hsu/a.txt is illegal because there is a space between 'byron' and 'hsu')

2. Preprocess the data

After the environment problem is solved, preprocessing is quite easy. Just follow the TA's instructions, and everything go well like expected.

3. mapping.py

Python is super convenient. I take advantage of the dict in python and only write about 20 lines of codes to implement it.

4. mydisambig.cpp

This part is a little complicated. Firstly, I spent time on figuring out how to use the srilm package. Secondly, I use what I have learned in DSnP course to design structures of node and graph. And the rest is coding, debugging, coding and debugging...

After a lot of hard working, I finally produce the same result as what disambig produces.