DSP Homework2-1 Report

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1. Execution and Environment

Execution

```
bash 00_clean_all.sh
bash 01_run_HCopy.sh
bash 02_run_HCompV.sh
bash 03_training.sh
bash 04_testing.sh
```

Environment: macOS

2. Run Baseline (40%)

3. Improve Accuracy (40%)

4. Describe training process and accuracy (30%)

- Best
 - Number of states: 12
 - o Gaussian mixtures: 5
 - o iterations: 3
 - o Corr: 97.47%, Acc: 96.66%

• How some changes effect the performance:

state	Gaussian mixtures	iterations	Corr	Acc
5	2	3	96.89%	74.80%
7	2	3	96.49%	84.87%
10	2	3	96.72%	94.42%
12	2	3	97.24%	96.32%
12	4	3	97.47%	96.66%
12	5	3	97.30%	96.49%