

Ground truth

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|-------|------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| /sil/ | 68.4 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 1.3 | 5.3 | 3.9 | 0.0 | 0.0 | 0.0 | 13.2 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | | |
| /a/ | 2.4 | 80.7 | 5.5 | 2.9 | 1.7 | 0.0 | 0.0 | 0.1 | 0.3 | 0.0 | 1.6 | 0.6 | 0.0 | 0.1 | 0.5 | 0.8 | 0.1 | 0.1 | 0.0 | 0.5 | 0.4 | 0.2 | 0.1 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.0 | 0.1 | |
| /Ê/ | 2.6 | 3.6 | 80.8 | 4.2 | 0.4 | 0.0 | 0.5 | 0.5 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.1 | 0.7 | 0.7 | 0.2 | 0.1 | 0.0 | 0.3 | 1.4 | 0.7 | 0.1 | 0.6 | 0.1 | 0.3 | 0.7 | 0.3 | 0.1 | 0.3 | 0.5 | |
| /Û/ | 0.6 | 1.8 | 3.4 | 75.0 | 6.3 | 0.2 | 1.3 | 0.5 | 0.2 | 0.3 | 0.8 | 0.2 | 0.1 | 0.2 | 1.3 | 2.1 | 0.7 | 0.3 | 0.0 | 0.5 | 1.2 | 0.6 | 0.0 | 0.2 | 0.1 | 0.5 | 0.2 | 0.5 | 0.3 | 0.3 | 0.3 | |
| /Ô/ | 0.5 | 1.7 | 0.3 | 14.0 | 71.6 | 2.9 | 0.1 | 0.1 | 1.7 | 0.3 | 0.2 | 1.8 | 0.0 | 0.2 | 0.1 | 0.9 | 0.0 | 0.1 | 0.0 | 0.9 | 0.4 | 0.6 | 0.2 | 0.0 | 0.2 | 0.3 | 0.0 | 0.3 | 0.1 | 0.1 | 0.0 | |
| /u/ | 1.9 | 0.2 | 0.5 | 1.8 | 12.8 | 68.0 | 0.9 | 0.0 | 0.2 | 0.7 | 0.0 | 5.6 | 0.0 | 0.0 | 0.3 | 0.7 | 0.4 | 0.1 | 0.0 | 0.9 | 1.9 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 0.2 | |
| /y/ | 1.0 | 0.1 | 3.2 | 4.6 | 0.9 | 0.4 | 72.4 | 2.5 | 0.1 | 0.1 | 0.0 | 0.3 | 3.9 | 0.6 | 0.9 | 0.5 | 0.6 | 0.0 | 0.3 | 0.2 | 1.0 | 1.7 | 0.1 | 0.2 | 0.4 | 0.2 | 1.0 | 1.3 | 0.1 | 0.2 | 1.1 | |
| /i/ | 0.7 | 0.3 | 15.5 | 0.9 | 0.0 | 0.0 | 1.1 | 65.1 | 0.0 | 0.0 | 0.0 | 0.1 | 1.0 | 2.3 | 1.8 | 0.8 | 0.3 | 0.0 | 0.1 | 0.4 | 3.0 | 2.9 | 0.3 | 0.2 | 0.2 | 0.6 | 0.8 | 0.8 | 0.2 | 0.5 | 0.3 | |
| /ã/ | 0.9 | 1.1 | 0.4 | 0.7 | 6.5 | 0.3 | 0.1 | 0.0 | 81.1 | 2.0 | 0.9 | 0.7 | 0.0 | 0.0 | 0.1 | 1.5 | 0.3 | 0.5 | 0.0 | 0.2 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | |
| /ĩ/ | 0.6 | 0.1 | 0.1 | 0.8 | 4.0 | 2.3 | 0.2 | 0.0 | 22.1 | 63.0 | 0.7 | 2.0 | 0.0 | 0.2 | 0.2 | 0.7 | 0.4 | 0.1 | 0.0 | 0.1 | 0.8 | 0.5 | 0.3 | 0.1 | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.1 | 0.0 | |
| /µ/ | 2.0 | 18.9 | 3.9 | 5.4 | 1.8 | 0.0 | 0.1 | 0.0 | 1.7 | 0.1 | 60.4 | 0.5 | 0.0 | 0.1 | 0.3 | 1.5 | 0.3 | 0.2 | 0.0 | 0.1 | 0.7 | 0.3 | 0.1 | 0.0 | 0.1 | 0.3 | 0.2 | 0.1 | 0.3 | 0.2 | 0.1 | |
| /w/ | 0.3 | 3.3 | 0.5 | 1.0 | 5.8 | 6.8 | 0.3 | 0.1 | 1.5 | 1.9 | 0.1 | 71.8 | 0.0 | 0.0 | 0.4 | 0.8 | 0.2 | 0.3 | 0.0 | 0.6 | 2.0 | 0.3 | 0.0 | 0.2 | 0.0 | 0.1 | 0.3 | 0.1 | 0.8 | 0.0 | 0.1 | |
| /ɥ/ | 0.4 | 0.1 | 2.0 | 1.9 | 0.2 | 0.3 | 31.1 | 2.6 | 0.1 | 0.2 | 0.2 | 0.6 | 50.4 | 0.3 | 2.3 | 0.2 | 0.1 | 0.1 | 0.1 | 1.1 | 1.1 | 0.7 | 0.0 | 0.2 | 0.2 | 0.1 | 0.8 | 1.5 | 0.5 | 0.1 | 0.5 | |
| /j/ | 0.0 | 1.8 | 11.8 | 1.6 | 0.4 | 0.1 | 9.0 | 22.3 | 0.1 | 0.5 | 1.1 | 0.0 | 2.6 | 32.5 | 1.0 | 0.4 | 0.0 | 0.0 | 0.1 | 0.9 | 3.9 | 1.9 | 0.0 | 0.1 | 0.0 | 0.0 | 0.8 | 5.2 | 0.2 | 0.3 | 1.1 | |
| /l/ | 2.5 | 3.4 | 4.0 | 5.7 | 1.0 | 0.6 | 0.9 | 3.8 | 0.8 | 0.1 | 0.7 | 0.3 | 0.6 | 0.0 | 69.9 | 0.9 | 0.4 | 0.1 | 0.0 | 1.2 | 0.5 | 0.6 | 0.8 | 0.2 | 0.0 | 0.2 | 0.2 | 0.2 | 0.0 | 0.1 | 0.4 | |
| /ʁ/ | 0.4 | 6.0 | 4.3 | 3.5 | 3.9 | 2.0 | 0.4 | 0.6 | 2.2 | 0.3 | 0.6 | 0.5 | 0.0 | 0.0 | 0.3 | 71.7 | 0.1 | 0.2 | 0.0 | 0.6 | 0.9 | 0.3 | 0.3 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.3 | 0.1 | |
| /n/ | 1.7 | 1.1 | 4.2 | 6.3 | 2.4 | 1.3 | 1.0 | 2.4 | 1.3 | 0.4 | 2.3 | 0.0 | 0.0 | 0.1 | 3.2 | 0.1 | 65.5 | 1.3 | 2.1 | 0.0 | 0.3 | 0.4 | 0.0 | 1.6 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | |
| /m/ | 1.6 | 1.3 | 4.0 | 5.7 | 0.8 | 0.3 | 1.1 | 1.5 | 1.9 | 1.0 | 1.2 | 0.7 | 0.1 | 0.1 | 0.8 | 0.3 | 6.0 | 69.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.5 | 0.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.5 | 0.0 | 0.1 | |
| /ɲ/ | 0.3 | 1.4 | 7.5 | 3.4 | 0.3 | 0.8 | 0.5 | 13.0 | 0.3 | 0.4 | 3.5 | 0.0 | 0.0 | 1.6 | 0.5 | 0.3 | 23.5 | 0.8 | 39.7 | 0.0 | 0.1 | 0.4 | 0.1 | 0.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | |
| /p/ | 29.7 | 1.0 | 1.2 | 1.0 | 0.1 | 0.8 | 0.1 | 0.1 | 0.4 | 0.1 | 0.1 | 0.0 | 0.9 | 0.0 | 0.5 | 0.5 | 0.1 | 0.0 | 0.0 | 49.2 | 6.1 | 1.9 | 0.6 | 0.2 | 0.0 | 4.1 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | |
| /t/ | 16.0 | 0.5 | 2.0 | 0.7 | 0.5 | 0.3 | 0.4 | 0.4 | 0.8 | 0.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.6 | 67.8 | 2.0 | 0.0 | 1.4 | 0.0 | 0.3 | 2.3 | 2.2 | 0.0 | 0.3 | 0.1 | |
| /k/ | 14.5 | 1.3 | 1.0 | 0.5 | 1.0 | 0.1 | 0.1 | 0.6 | 0.2 | 0.5 | 0.0 | 0.1 | 0.1 | 0.0 | 0.7 | 2.0 | 0.0 | 0.0 | 0.0 | 0.5 | 3.8 | 69.4 | 0.0 | 0.1 | 0.5 | 0.4 | 1.2 | 0.9 | 0.1 | 0.4 | 0.0 | |
| /b/ | 3.4 | 2.0 | 1.0 | 1.3 | 0.6 | 2.5 | 0.7 | 0.8 | 2.3 | 1.4 | 0.0 | 0.6 | 0.2 | 0.0 | 0.8 | 0.1 | 0.5 | 1.4 | 0.0 | 8.8 | 0.3 | 0.1 | 61.1 | 6.4 | 0.7 | 0.0 | 0.0 | 0.1 | 2.4 | 0.2 | 0.1 | |
| /d/ | 4.5 | 0.7 | 4.0 | 5.5 | 0.8 | 0.2 | 0.8 | 1.8 | 2.5 | 0.8 | 1.0 | 0.0 | 0.0 | 0.1 | 1.5 | 0.4 | 3.4 | 0.1 | 0.1 | 0.1 | 6.9 | 0.4 | 0.6 | 60.6 | 1.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.6 | 0.6 | |
| /g/ | 0.6 | 0.7 | 1.6 | 1.1 | 1.6 | 0.7 | 0.6 | 1.0 | 1.0 | 0.9 | 0.6 | 0.2 | 0.1 | 0.1 | 1.0 | 1.2 | 0.5 | 0.1 | 0.0 | 0.1 | 0.3 | 21.9 | 0.6 | 2.4 | 59.4 | 0.0 | 0.1 | 0.3 | 0.3 | 0.2 | 0.7 | |
| /f/ | 2.4 | 0.6 | 0.2 | 0.5 | 0.2 | 0.4 | 0.2 | 0.2 | 0.1 | 0.0 | 0.1 | 1.1 | 3.1 | 0.0 | 1.0 | 1.7 | 0.1 | 0.0 | 0.0 | 3.1 | 8.6 | 0.4 | 0.0 | 0.0 | 0.0 | 62.3 | 10.6 | 1.8 | 1.3 | 0.0 | 0.0 | |
| /s/ | 0.4 | 0.5 | 0.6 | 0.6 | 0.3 | 0.0 | 0.4 | 0.1 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.7 | 16.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.2 | 73.8 | 2.9 | 0.0 | 0.3 | 0.1 | |
| /ʃ/ | 0.2 | 0.4 | 0.2 | 0.5 | 0.3 | 0.2 | 0.4 | 0.3 | 0.2 | 0.1 | 0.0 | 0.4 | 1.2 | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.7 | 0.9 | 3.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 87.4 | 0.0 | 0.0 | 1.6 | |
| /v/ | 0.7 | 2.7 | 2.0 | 2.2 | 1.6 | 2.8 | 0.3 | 1.7 | 0.1 | 0.2 | 0.5 | 0.5 | 0.2 | 0.5 | 1.0 | 0.7 | 0.1 | 0.0 | 0.0 | 0.1 | 0.6 | 0.0 | 0.3 | 0.0 | 0.0 | 7.0 | 0.4 | 0.0 | 72.9 | 0.3 | 0.8 | |
| /z/ | 0.9 | 2.1 | 3.0 | 1.7 | 1.3 | 0.5 | 0.7 | 2.5 | 1.0 | 0.4 | 0.4 | 0.0 | 0.0 | 0.1 | 0.8 | 0.5 | 0.1 | 0.0 | 0.0 | 0.2 | 2.3 | 0.7 | 0.1 | 0.4 | 0.3 | 0.2 | 18.9 | 0.3 | 0.0 | 57.8 | 2.7 | |
| /ʒ/ | 0.8 | 0.8 | 1.3 | 1.5 | 0.5 | 0.4 | 1.5 | 2.7 | 0.5 | 0.1 | 0.2 | 0.2 | 0.5 | 0.1 | 0.8 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 18.7 | 0.0 | 0.0 | 67.8 | |
| | | /sil/ | /a/ | /Ê/ | /Û/ | /Ô/ | /u/ | /y/ | /i/ | /ã/ | /ĩ/ | /µ/ | /w/ | /ɥ/ | /j/ | /l/ | /ʁ/ | /n/ | /m/ | /ɲ/ | /p/ | /t/ | /k/ | /b/ | /d/ | /g/ | /f/ | /s/ | /ʃ/ | /v/ | /z/ | /ʒ/ |
| | | Predicted labels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Predicted labels