

Ground truth

| /sil/ | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | |
|-------|------------------|------|------|------|------|------|------|------|------|-----|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| /a/ | 0.5 | 37.7 | 5.1 | 5.7 | 1.1 | 0.1 | 0.1 | 0.1 | 2.5 | 0.2 | 24.0 | 0.3 | 0.0 | 0.1 | 5.4 | 7.3 | 2.4 | 1.0 | 0.5 | 0.3 | 1.2 | 0.6 | 0.5 | 0.9 | 0.7 | 0.1 | 0.2 | 0.1 | 0.4 | 0.8 | 0.2 | |
| /Ê/ | 0.7 | 6.4 | 36.7 | 12.4 | 0.6 | 0.3 | 1.0 | 2.8 | 0.2 | 0.4 | 8.6 | 0.2 | 0.1 | 1.0 | 11.2 | 1.5 | 3.4 | 1.2 | 0.9 | 0.6 | 2.0 | 1.3 | 0.6 | 1.3 | 1.2 | 0.2 | 0.6 | 0.1 | 0.5 | 1.8 | 0.3 | |
| /Û/ | 0.8 | 4.3 | 6.4 | 32.2 | 4.1 | 0.8 | 1.1 | 0.6 | 1.0 | 0.5 | 9.2 | 0.4 | 0.1 | 0.3 | 15.1 | 4.2 | 4.8 | 3.4 | 0.7 | 0.5 | 1.6 | 0.6 | 1.2 | 1.9 | 1.0 | 0.1 | 0.3 | 0.1 | 0.8 | 1.4 | 0.3 | |
| /Ô/ | 0.3 | 2.5 | 0.9 | 9.6 | 25.1 | 4.2 | 0.1 | 0.2 | 12.6 | 4.7 | 7.5 | 3.4 | 0.0 | 0.1 | 5.2 | 9.2 | 3.6 | 2.6 | 0.5 | 0.4 | 1.3 | 0.4 | 2.3 | 1.5 | 0.8 | 0.0 | 0.1 | 0.0 | 0.5 | 0.4 | 0.1 | |
| /u/ | 0.5 | 0.7 | 0.8 | 9.8 | 4.0 | 16.4 | 0.9 | 0.7 | 0.8 | 1.5 | 1.7 | 1.8 | 0.1 | 0.1 | 10.0 | 2.0 | 14.6 | 15.7 | 1.4 | 0.8 | 1.8 | 0.5 | 4.6 | 3.4 | 1.8 | 0.2 | 0.3 | 0.1 | 2.0 | 1.1 | 0.2 | |
| /y/ | 0.1 | 0.1 | 5.3 | 8.3 | 0.2 | 0.6 | 17.5 | 3.9 | 0.1 | 0.3 | 1.1 | 0.0 | 0.8 | 0.7 | 28.4 | 0.2 | 11.0 | 7.1 | 1.4 | 0.2 | 0.9 | 0.7 | 1.6 | 3.2 | 2.7 | 0.1 | 0.4 | 0.0 | 0.5 | 2.0 | 0.4 | |
| /i/ | 0.6 | 0.4 | 13.3 | 6.5 | 0.8 | 0.7 | 2.9 | 29.1 | 0.1 | 0.3 | 1.9 | 0.2 | 0.1 | 2.0 | 16.7 | 0.5 | 7.0 | 3.2 | 2.5 | 0.5 | 2.0 | 1.0 | 0.9 | 2.1 | 1.1 | 0.1 | 0.8 | 0.1 | 0.3 | 1.8 | 0.5 | |
| /ã/ | 0.3 | 13.9 | 1.7 | 6.5 | 2.9 | 0.7 | 0.1 | 0.1 | 15.1 | 2.7 | 21.9 | 0.5 | 0.1 | 0.0 | 6.5 | 7.9 | 6.5 | 2.9 | 1.0 | 0.5 | 1.3 | 0.4 | 1.4 | 2.9 | 0.8 | 0.0 | 0.1 | 0.0 | 0.4 | 0.8 | 0.2 | |
| /ĩ/ | 0.3 | 1.7 | 1.4 | 9.0 | 3.8 | 1.7 | 0.2 | 0.2 | 10.8 | 6.3 | 8.0 | 1.2 | 0.0 | 0.1 | 7.1 | 7.4 | 11.1 | 8.5 | 1.1 | 1.0 | 1.7 | 0.9 | 5.3 | 5.4 | 2.8 | 0.1 | 0.2 | 0.2 | 1.0 | 1.1 | 0.3 | |
| /µ/ | 1.0 | 12.6 | 16.7 | 7.7 | 0.6 | 0.3 | 0.3 | 0.5 | 0.7 | 0.6 | 29.3 | 0.1 | 0.0 | 0.2 | 8.1 | 2.7 | 5.8 | 2.5 | 0.7 | 0.4 | 1.7 | 1.0 | 0.9 | 2.0 | 1.7 | 0.1 | 0.1 | 0.1 | 0.4 | 1.1 | 0.2 | |
| /w/ | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | nan | |
| /ɥ/ | 9.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1 | 0.0 | 0.0 | 0.0 | 9.1 | 0.0 | 18.2 | 9.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1 | 9.1 | 0.0 | 9.1 | 0.0 | 0.0 | 18.2 | 0.0 | |
| /j/ | 0.1 | 1.6 | 24.5 | 5.8 | 0.4 | 0.7 | 4.2 | 13.6 | 0.1 | 0.4 | 4.4 | 0.2 | 0.7 | 6.5 | 14.7 | 1.3 | 2.6 | 1.4 | 2.3 | 0.4 | 2.1 | 1.0 | 0.1 | 1.5 | 1.0 | 0.1 | 3.1 | 0.7 | 0.6 | 2.3 | 1.8 | |
| /l/ | 0.4 | 2.3 | 6.5 | 12.9 | 0.9 | 0.9 | 2.2 | 3.3 | 0.3 | 0.2 | 3.1 | 0.4 | 0.2 | 1.0 | 38.3 | 1.7 | 8.1 | 4.7 | 1.2 | 0.4 | 1.2 | 0.8 | 1.3 | 3.0 | 1.4 | 0.1 | 0.5 | 0.1 | 0.7 | 1.7 | 0.3 | |
| /ʁ/ | 1.5 | 5.5 | 2.5 | 5.2 | 2.2 | 0.7 | 0.2 | 0.3 | 4.3 | 1.0 | 9.2 | 0.5 | 0.1 | 0.1 | 6.9 | 36.3 | 2.9 | 1.5 | 0.5 | 1.1 | 4.8 | 2.3 | 0.8 | 2.2 | 1.2 | 0.3 | 0.7 | 0.2 | 1.2 | 3.6 | 0.3 | |
| /n/ | 0.1 | 1.0 | 2.9 | 7.8 | 1.0 | 0.9 | 0.8 | 2.6 | 0.3 | 0.3 | 2.9 | 0.1 | 0.1 | 0.3 | 13.6 | 1.0 | 33.7 | 13.7 | 3.7 | 0.2 | 0.6 | 0.5 | 3.3 | 5.6 | 1.4 | 0.0 | 0.1 | 0.1 | 0.4 | 0.9 | 0.2 | |
| /m/ | 0.3 | 1.8 | 1.8 | 4.7 | 0.9 | 0.6 | 0.4 | 0.3 | 1.0 | 0.7 | 4.7 | 0.3 | 0.1 | 0.1 | 7.5 | 1.1 | 20.9 | 39.2 | 0.8 | 0.4 | 0.6 | 0.2 | 5.4 | 3.9 | 1.0 | 0.0 | 0.1 | 0.0 | 0.6 | 0.4 | 0.1 | |
| /ɲ/ | 0.2 | 2.9 | 2.2 | 4.5 | 0.4 | 0.6 | 0.8 | 4.7 | 0.2 | 0.3 | 7.1 | 0.1 | 0.1 | 0.8 | 14.4 | 1.8 | 23.7 | 7.9 | 10.4 | 0.6 | 1.5 | 0.5 | 4.0 | 5.1 | 2.3 | 0.0 | 0.4 | 0.1 | 0.3 | 2.0 | 0.5 | |
| /p/ | 2.7 | 2.0 | 4.2 | 1.7 | 0.4 | 0.5 | 0.2 | 0.4 | 0.5 | 0.1 | 4.4 | 0.2 | 0.1 | 0.1 | 5.4 | 3.1 | 3.1 | 3.3 | 0.5 | 19.3 | 15.0 | 4.0 | 7.8 | 7.8 | 2.9 | 1.3 | 1.1 | 0.1 | 3.4 | 4.0 | 0.4 | |
| /t/ | 2.2 | 1.4 | 2.9 | 1.9 | 0.5 | 0.5 | 0.2 | 1.0 | 0.2 | 0.1 | 4.2 | 0.2 | 0.1 | 0.5 | 7.8 | 2.6 | 2.9 | 1.8 | 0.5 | 5.1 | 26.6 | 5.7 | 3.1 | 10.1 | 2.6 | 1.0 | 3.9 | 0.2 | 1.9 | 7.6 | 0.7 | |
| /k/ | 2.4 | 1.7 | 3.3 | 1.5 | 0.5 | 0.3 | 0.4 | 0.9 | 0.2 | 0.1 | 4.3 | 0.3 | 0.1 | 0.3 | 9.1 | 8.2 | 1.9 | 1.1 | 0.5 | 3.0 | 14.0 | 20.0 | 1.0 | 3.3 | 7.1 | 1.1 | 3.8 | 0.4 | 1.9 | 6.4 | 1.0 | |
| /b/ | 0.5 | 0.3 | 0.9 | 3.0 | 0.8 | 0.8 | 0.2 | 0.8 | 0.2 | 0.1 | 1.5 | 0.9 | 0.1 | 0.0 | 6.0 | 0.8 | 8.5 | 16.9 | 0.5 | 0.9 | 1.0 | 0.7 | 35.3 | 10.9 | 3.8 | 0.1 | 0.2 | 0.0 | 2.6 | 1.5 | 0.1 | |
| /d/ | 0.4 | 1.3 | 2.1 | 4.5 | 0.5 | 0.4 | 0.3 | 1.4 | 0.4 | 0.2 | 2.2 | 0.1 | 0.1 | 0.5 | 16.2 | 1.6 | 12.4 | 4.2 | 1.4 | 0.9 | 2.3 | 0.6 | 7.9 | 27.9 | 3.9 | 0.1 | 0.4 | 0.1 | 1.4 | 3.8 | 0.4 | |
| /g/ | 0.3 | 2.5 | 4.7 | 5.7 | 1.3 | 0.4 | 1.3 | 2.4 | 0.1 | 0.3 | 3.3 | 0.2 | 0.3 | 1.0 | 13.6 | 5.0 | 6.2 | 3.3 | 1.0 | 0.5 | 1.7 | 3.2 | 3.9 | 8.2 | 23.4 | 0.1 | 0.2 | 0.0 | 1.5 | 3.8 | 0.6 | |
| /f/ | 1.8 | 1.1 | 1.4 | 1.5 | 0.5 | 0.5 | 0.2 | 0.5 | 0.4 | 0.1 | 4.6 | 0.8 | 0.0 | 0.1 | 4.8 | 6.6 | 2.6 | 1.6 | 0.3 | 2.8 | 13.5 | 1.7 | 1.9 | 4.2 | 1.0 | 13.1 | 10.7 | 0.6 | 10.7 | 10.4 | 0.4 | |
| /s/ | 1.6 | 1.0 | 1.8 | 1.1 | 0.2 | 0.3 | 0.4 | 1.1 | 0.1 | 0.0 | 2.3 | 0.4 | 0.3 | 1.3 | 4.6 | 2.9 | 0.9 | 0.6 | 0.2 | 1.1 | 9.6 | 2.8 | 0.2 | 1.7 | 0.5 | 3.1 | 38.7 | 1.5 | 2.0 | 15.0 | 2.7 | |
| /ʃ/ | 0.5 | 0.5 | 4.4 | 1.1 | 0.1 | 0.1 | 1.4 | 2.3 | 0.0 | 0.0 | 1.2 | 0.1 | 0.7 | 3.7 | 7.4 | 1.4 | 0.5 | 0.5 | 0.2 | 0.7 | 5.0 | 4.1 | 0.1 | 0.8 | 0.5 | 3.0 | 18.0 | 10.7 | 1.5 | 7.7 | 22.0 | |
| /v/ | 0.7 | 2.0 | 3.6 | 8.2 | 0.9 | 2.2 | 0.1 | 0.4 | 0.4 | 0.2 | 4.6 | 0.4 | 0.1 | 0.2 | 14.3 | 4.7 | 6.7 | 6.3 | 0.8 | 0.9 | 2.4 | 0.6 | 5.3 | 6.3 | 1.8 | 0.8 | 1.4 | 0.1 | 17.6 | 5.5 | 0.3 | |
| /z/ | 1.5 | 0.3 | 1.2 | 3.2 | 0.0 | 0.8 | 0.9 | 3.3 | 0.4 | 0.0 | 4.0 | 0.0 | 0.0 | 0.9 | 12.0 | 3.3 | 3.1 | 1.7 | 0.4 | 1.2 | 6.2 | 1.9 | 1.8 | 4.4 | 2.3 | 1.5 | 11.2 | 0.3 | 2.2 | 26.8 | 3.3 | |
| /ʒ/ | 0.0 | 1.1 | 5.1 | 5.9 | 0.5 | 1.1 | 2.7 | 3.3 | 0.3 | 0.1 | 2.6 | 0.1 | 0.3 | 1.6 | 18.4 | 2.3 | 3.4 | 1.8 | 1.0 | 0.7 | 1.5 | 0.6 | 0.7 | 2.0 | 1.4 | 0.6 | 2.0 | 1.0 | 4.8 | 13.5 | 19.8 | |
| | /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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |