

Ground truth

/sil/	62.9	1.0	2.8	3.2	0.5	0.2	0.4	0.3	0.3	0.3	2.7	0.1	0.1	0.1	1.6	3.2	0.5	0.4	0.1	2.1	3.1	2.1	0.7	0.7	0.2	1.5	3.1	0.9	0.3	4.2	0.5	
/a/	0.5	55.1	2.4	4.5	2.0	0.1	0.1	0.0	1.3	0.2	20.1	1.0	0.1	0.2	2.3	2.5	0.9	0.7	0.4	0.7	0.5	0.3	0.7	0.2	0.3	0.2	0.4	0.2	0.7	0.8	0.7	
/Ê/	0.8	3.5	57.5	9.8	0.4	0.1	1.4	2.3	0.1	0.5	4.5	0.2	0.3	1.7	5.0	1.2	2.0	0.6	0.8	0.4	0.5	0.5	0.4	0.6	0.6	0.2	0.4	0.3	0.5	2.1	0.7	
/Û/	1.3	3.1	5.9	49.9	4.6	0.6	1.7	0.4	0.5	0.7	8.2	0.5	0.3	0.6	6.0	1.7	3.1	1.8	0.6	0.6	0.4	0.3	0.5	0.6	0.5	0.3	0.6	0.4	1.0	2.5	0.8	
/Ô/	0.8	2.9	0.9	13.7	43.1	3.2	0.6	0.2	6.8	3.6	7.6	2.0	0.1	0.2	1.6	3.8	1.1	1.5	0.4	0.5	0.5	0.4	0.5	0.3	0.3	0.2	0.3	0.2	0.9	1.3	0.3	
/u/	0.3	0.3	0.4	11.5	15.8	36.9	1.3	0.5	2.1	4.3	2.2	3.5	0.3	0.2	1.9	2.1	3.2	3.0	0.4	0.7	0.3	0.3	1.0	0.3	0.5	0.4	0.4	0.3	2.8	1.9	1.1	
/y/	0.3	0.4	6.7	12.4	0.8	0.5	43.2	5.0	0.1	0.3	0.9	0.3	2.7	3.5	6.7	0.7	2.9	1.8	0.8	0.4	0.7	0.7	0.2	0.6	0.4	0.4	1.1	0.6	1.3	2.2	1.4	
/i/	0.5	0.2	15.0	4.5	0.2	0.2	5.2	38.0	0.0	0.3	0.6	0.1	1.5	4.4	8.3	0.5	3.9	1.4	2.6	0.2	0.7	0.6	0.2	0.7	0.6	0.2	1.3	0.5	0.8	5.5	1.3	
/ã/	0.3	14.7	0.6	4.5	4.6	0.4	0.2	0.1	27.3	2.3	26.8	1.0	0.0	0.1	1.9	2.4	3.5	3.3	0.5	0.3	0.4	0.2	0.8	0.6	0.5	0.2	0.3	0.2	0.6	0.8	0.6	
/ĩ/	0.3	1.7	0.3	7.7	15.5	1.9	0.5	0.1	18.3	19.7	12.5	1.4	0.1	0.1	1.6	2.5	4.1	4.4	0.4	0.6	0.3	0.4	1.5	0.8	1.0	0.2	0.3	0.1	0.7	1.0	0.1	
/µ/	1.1	9.8	14.2	9.4	1.4	0.2	1.1	0.3	0.9	0.7	38.4	0.3	0.2	0.5	2.9	1.5	6.5	3.6	1.0	0.3	0.3	0.5	0.5	0.6	1.2	0.1	0.4	0.1	0.5	1.5	0.3	
/w/	0.5	5.1	0.4	4.0	5.7	2.2	0.4	0.0	2.4	2.2	4.6	59.7	1.0	0.1	1.5	2.3	1.1	2.3	0.2	0.2	0.1	0.1	0.6	0.1	0.1	0.3	0.4	0.1	1.5	0.7	0.1	
/ɥ/	0.2	0.3	4.2	4.2	0.3	0.3	15.3	4.7	0.0	0.1	0.2	1.4	45.6	1.0	7.0	1.8	3.1	2.3	0.6	0.6	0.6	1.0	0.1	0.2	0.1	0.7	0.6	0.2	1.2	1.0	1.0	
/j/	0.3	0.8	11.3	4.3	0.6	0.2	2.8	7.2	0.1	0.2	1.9	0.2	1.1	47.2	6.0	0.3	2.0	1.0	3.0	0.1	0.2	0.2	0.2	0.6	0.7	0.2	0.8	0.9	1.2	3.6	1.1	
/l/	1.0	2.1	7.3	8.7	1.0	0.3	2.8	1.7	0.3	0.4	2.6	0.5	0.7	2.2	49.5	0.9	4.6	2.5	1.2	0.4	0.4	0.2	0.7	2.1	0.7	0.2	0.4	0.2	1.0	2.4	1.1	
/ʁ/	2.0	5.5	2.2	6.8	3.6	1.0	0.5	0.3	2.9	1.1	7.2	1.7	0.2	0.3	1.9	50.1	1.2	1.0	0.2	0.7	0.8	0.7	0.4	0.6	0.5	0.8	1.2	0.5	1.4	2.2	0.5	
/n/	0.2	1.5	1.9	7.1	0.7	0.5	1.6	1.0	0.5	0.6	4.3	0.6	0.5	1.0	11.2	0.6	43.5	7.0	9.6	0.1	0.1	0.1	0.7	1.5	1.1	0.1	0.1	0.0	0.5	1.5	0.2	
/m/	0.2	1.1	1.2	3.2	0.9	0.7	1.1	0.6	0.5	0.5	1.4	1.0	0.8	0.2	3.1	0.5	10.6	67.3	1.0	0.1	0.1	0.1	1.7	0.6	0.3	0.0	0.1	0.0	0.7	0.5	0.1	
/ɲ/	0.1	1.3	2.4	3.5	0.6	0.2	2.2	1.4	0.4	0.6	2.5	0.4	0.3	4.8	6.2	0.3	15.7	4.0	50.3	0.1	0.1	0.1	0.2	0.4	0.8	0.0	0.0	0.0	0.2	0.8	0.2	
/p/	4.0	1.3	1.2	1.4	0.8	0.7	0.3	0.3	0.5	0.3	1.6	0.7	0.6	0.1	1.2	1.2	0.7	1.6	0.1	58.0	6.6	1.7	4.2	1.2	0.4	2.4	1.2	0.1	3.0	2.6	0.2	
/t/	4.9	1.0	2.0	2.2	0.7	0.3	1.6	0.8	0.5	0.2	2.0	0.4	0.4	1.0	2.7	1.2	1.6	0.6	0.3	2.2	44.1	7.4	0.3	3.8	0.5	1.1	6.9	0.7	0.9	6.6	1.0	
/k/	4.5	1.1	1.7	1.7	1.3	0.9	1.0	0.5	0.4	0.5	2.3	0.6	0.6	0.6	2.6	6.5	0.8	0.6	0.2	1.5	4.1	46.2	0.1	0.4	4.5	2.4	4.1	1.0	1.5	4.5	1.3	
/b/	0.9	1.2	1.5	2.6	0.7	0.5	0.5	0.2	0.2	0.2	0.8	1.3	0.7	0.3	2.3	0.6	3.2	12.0	0.2	0.9	0.2	0.2	58.3	4.2	1.0	0.1	0.2	0.0	3.6	1.4	0.3	
/d/	0.8	0.9	3.6	3.4	0.7	0.5	1.0	0.7	0.6	0.3	1.3	0.4	0.3	1.9	8.8	0.9	10.0	2.9	2.1	0.2	1.1	0.3	2.1	42.9	3.8	0.1	0.3	0.0	1.5	6.0	0.8	
/g/	0.4	2.3	2.5	3.3	0.5	0.7	1.1	0.6	0.3	0.4	1.8	0.4	0.4	4.5	5.1	2.8	3.6	1.2	1.5	0.2	0.4	1.9	2.3	3.0	49.9	0.1	0.1	0.1	2.1	5.0	1.3	
/f/	4.6	0.7	2.0	1.9	0.6	0.4	0.6	0.2	0.6	0.2	2.5	0.7	0.3	0.2	0.9	1.6	0.4	0.5	0.1	0.8	1.7	0.8	0.2	0.1	0.2	41.4	23.1	0.8	5.4	6.1	0.4	
/s/	2.8	0.5	1.0	2.0	0.6	0.4	0.7	0.7	0.3	0.2	1.3	0.4	0.2	1.2	1.2	0.7	0.4	0.2	0.1	0.2	1.4	0.8	0.1	0.2	0.1	2.0	65.1	4.5	0.5	9.2	1.0	
/ʃ/	1.6	0.4	0.9	1.1	0.4	0.6	1.6	0.5	0.2	0.1	0.8	0.3	0.7	2.8	1.1	0.8	0.2	0.2	0.0	0.1	0.4	0.9	0.0	0.1	0.1	4.0	17.5	52.5	0.4	3.2	6.4	
/v/	0.5	1.1	2.3	4.6	1.1	0.7	1.4	0.8	0.3	0.2	1.7	2.7	1.5	1.3	4.8	1.3	2.6	3.7	0.4	0.2	0.2	0.2	2.0	2.2	0.8	0.5	0.2	0.1	47.2	12.2	1.4	
/z/	4.1	1.4	3.1	6.8	1.1	0.3	1.1	1.2	0.5	0.5	2.9	0.3	0.2	1.5	4.0	1.5	2.6	1.4	0.6	0.9	1.5	0.9	0.5	1.2	0.7	0.8	4.6	0.9	1.7	47.9	3.4	
/ʒ/	0.5	1.1	2.6	3.6	0.5	0.7	1.8	1.4	0.3	0.1	2.6	0.2	0.8	2.8	3.2	0.7	0.9	0.3	0.3	0.1	0.2	0.3	0.2	0.3	0.5	0.3	1.9	3.0	4.0	13.2	51.9	
Predicted labels		/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/