

Model:human  
error ratio

$\geq 2.0$

1.5

1.0

0.5

0.0

Mean match  
of individual human  
listeners

Exact match  
with mean human  
listener

Less similarity

of model to mean human listener

More similarity

of model to mean human listener

Peripheral

Cortical

Object

10 <sup>8</sup>	3.4	2.5	3.1	3.1	3.7	3.6	3.7	3.7	3.7	3.6
10,000	3.4	2.1	1.6	2.1	3.7	3.6	3.4	3.7	3.7	3.7
3,400	3.4	1.8	1.8	2.0	3.5	3.3	3.1	3.7	3.7	3.7
1,100	2.8	2.5	1.4	1.0	2.6	3.2	3.2	3.7	3.7	3.7
390	3.4	2.4	1.5	1.2	2.4	2.6	3.4	3.7	3.7	3.7
130	3.4	2.1	1.0	1.8	2.4	2.9	3.4	3.3	3.4	3.7
44	3.4	1.1	1.8	2.8	2.6	2.9	2.5	3.7	3.7	3.7
15	2.0	2.2	2.6	3.2	2.6	2.4	3.7	3.7	3.7	3.7
5	1.7	3.3	3.7	3.3	2.0	3.5	3.8	3.7	3.7	3.7
0	2.8	3.5	3.6	2.5	2.2	3.7	3.7	3.7	3.7	3.7
	0	5	15	44	130	390	1,100	3,400	10,000	10 <sup>8</sup>

10 <sup>8</sup>	1.4	2.1	2.1	3.4	3.4	2.5	2.0	3.6	3.7	3.6
10,000	1.6	1.4	1.7	2.6	3.5	1.8	1.9	2.2	3.3	3.8
3,400	1.8	1.6	1.3	2.2	3.5	1.6	1.0	1.9	3.7	3.7
1,100	1.8	1.8	1.4	1.9	2.4	1.3	1.3	2.0	3.7	3.7
390	1.8	1.8	1.6	1.7	1.7	1.2	1.0	2.1	3.6	3.7
130	1.8	1.8	2.1	2.0	1.1	0.8	1.5	2.3	3.7	3.7
44	1.4	1.3	1.3	1.0	0.9	1.4	1.3	3.6	3.7	3.7
15	1.1	1.3	1.1	1.0	1.3	1.7	1.9	3.6	3.7	3.7
5	1.2	1.4	1.0	0.8	1.9	1.9	2.1	3.5	3.7	3.7
0	1.3	1.4	1.1	1.3	2.1	2.1	1.9	3.7	3.7	3.7
	0	5	15	44	130	390	1,100	3,400	10,000	10 <sup>8</sup>

10 <sup>8</sup>	1.7	1.7	1.7	1.7	1.3	2.0	2.0	2.0	2.0	2.0
10,000	2.3	2.3	2.2	1.7	1.9	1.4	1.6	1.7	1.9	2.0
3,400	2.3	2.3	2.3	1.1	0.9	1.3	1.5	1.6	1.9	2.0
1,100	2.6	2.5	1.2	1.0	0.8	1.3	1.5	1.6	1.9	2.0
390	2.5	1.2	1.1	0.8	1.2	1.3	1.5	1.7	1.9	2.0
130	2.6	1.2	1.1	1.2	1.4	1.5	1.6	1.6	1.9	2.0
44	2.7	1.1	0.9	1.5	1.3	1.5	1.7	1.6	1.9	2.0
15	2.6	0.8	1.4	1.0	1.2	1.5	1.7	1.6	1.9	2.0
5	2.5	0.8	0.8	1.0	1.1	1.4	1.6	1.7	2.0	1.9
0	2.1	0.8	0.9	0.9	1.1	1.3	1.6	1.7	1.9	2.0
	0	5	15	44	130	390	1,100	3,400	10,000	10 <sup>8</sup>

Adaptation