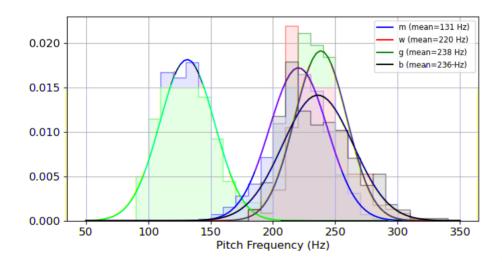
MATH Tables (log, log10 and exp)

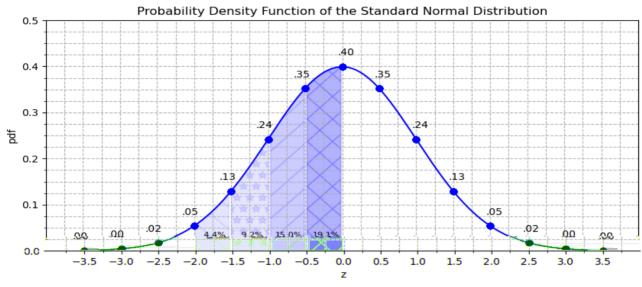
х	log10(x)	log(x)	exp(-x)
0,10	-1,000	-2,303	0,905
0,20	-0,699	-1,609	0,819
0,30	-0,523	-1,204	0,741
0,40	-0,398	-0,916	0,670
0,50	-0,301	-0,693	0,607
0,70	-0,155	-0,357	0,497
0,90	-0,046	-0,105	0,407
1,00	0,000	0,000	0,368
1,50	0,176	0,405	0,223
2,00	0,301	0,693	0,135
2,50	0,398	0,916	0,082

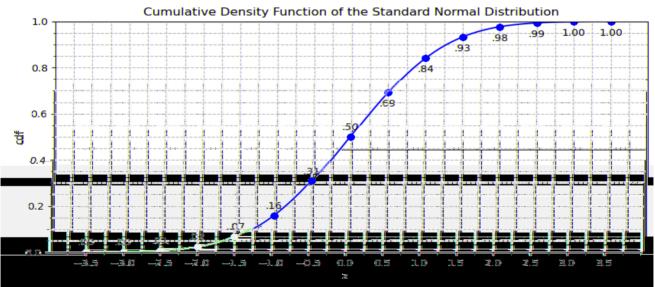
Distributions of PITCH with respect to age and gender

These are average pitch values measured in neutrally pronounced single syllable words



Standard Normal Distribution





-3.5	0.0009	0.0002
-3.0	0.0044	0.0013
-2.5	0.0175	0.0062
-2.0	0.0540	0.0228
-1.5	0.1295	0.0668
-1.0	0.2420	0.1587
-0.5	0.3521	0.3085
0.0	0.3989	0.5000

σ	
0.0	0.00
0.5	38.29
1.0	68.27
1.5	86.64
2.0	95.45
2.5	98.76
3.0	99.73
3.5	99.95

English Phone Set, Phone Classes, Examples

	example	transcript	phone class		example	transcript	phone class
AA	balm	B AA L M	vowel	В	buy	B AY	plosive
AE	bat	В АЕ Т	vowel	СН	church	CH ER CH	affricate
АН	butt	ВАНТ	vowel	D	die	D AY	plosive
AO	bought	В АО Т	vowel	DH	thy	DH AY	fricative
AW	bout	B AW T	vowel	F	fight	F AY T	fricative
AY	bite	ВАҮТ	vowel	G	guy	G AY	plosive
ЕН	bet	ВЕНТ	vowel	НН	high	нн аү	aspirate
ER	bird	B ER T	vowel	JH	jive	JH AY V	affricate
EY	bait	B EY T	vowel	K	kite	K AY T	plosive
IH	bit	B IH T	vowel	L	lie	L AY	liquid
IY	beat	B IY T	vowel	M	my	M AY	nasal
ow	boat	B OW T	vowel	N	nigh	N AY	nasal
OY	boy	ВОҮ	vowel	NG	sing	S IH NG	nasal
UH	book	B UH K	vowel	P	pie	P AY	plosive
UW	boot	B UW T	vowel	R	rye	R AY	liquid
				S	sigh	S AY	fricative
				SH	shy	SH AY	fricative
				T	tie	T AY	plosive
				TH	thigh	TH AY	fricative
				V	vie	V AY	fricative
				\mathbf{W}	wise	WAYZ	semivowel
				Y	yacht	Y AH T	semivowel
				Z	Z00	Z UH	fricative
				ZH	pleasure	P L EH ZH	fricative

Typical FORMANT values for American English Vowels

Mean F1-F2-F3 Formant values (in HZ) measured on the Hillenbrand Database

340	429	588	591	756	656	469	380	621	476
435	484	727	678	916	801	519	460	760	527
2312	2034	1803	1930	1309	1023	1123	992	1181	1370
2756	2369	2063	2332	1526	1188	1229	1106	1416	1589
3001	2687	2604	2595	2535	2521	2435	2355	2548	1711
3373	3057	2953	2973	2823	2819	2829	2735	2901	1930

F1-F2 Distributions (confidence ellipses are shown at 2 times sigma)

