

SPECTRAL DISTRIBUTION DESCRIPTORS (verbal attributes)			SOUND QUALITY DESCRIPTORS	
BANDWIDTH (thin → narrow → rich → full → thick)	DENSITY (INTERFERENCE) (hollow → clear → crisp → smooth → buzzing → rough → muddy → breathy → noise)	CENTROID / SPECTRAL ENVELOPE SHAPE (boomy → muffled → warm → acute → vibrant → bright → nasal → tinny → piercing → screeching)	TIMBRE PERCEPTION - VERBAL ATTRIBUTES	
Narrower	Lower	Lower	→	Narrower / More Hollow / Boomier / More Muffled
		Higher	→	Thinner / Clearer / More Nasal / More Tinny
	Higher	Lower	→	Narrower / Rougher / Muddier / More Muffled
		Higher	→	Thinner / More Buzzing / More Nasal / More Screeching
Wider	Lower	Lower	→	Fuller / Richer / Smoother / More Acute / Warmer
		Higher	→	Fuller / Crisper / Smoother / More Vibrant / Brighter
	Higher	Lower	→	Thicker / Rougher / Muddier / Boomier / More Breathy
		Higher	→	Thicker / Rougher / Muddier / More Nasal / More Piercing / More Noisy

Spectrum / Timbre

ADDITIONAL DESCRIPTORS
SPECTRO-TEMPORAL - LOUDNESS
Spectral Components' Amplitude and Frequency Envelopes
<i>Freq/Ampl Micro-variations</i> (Spectral Flux e.g. ~5-10ms scale): "natural"
<i>Freq/Ampl variations</i> (~30-60ms scale): "rich / crisp"
(~80-150ms scale): "full / rich"
(Time-variant spectral density)
<i>High Freq. Attack Synchrony</i> : "tight, focused, closed"
Loudness
<i>Dependance on spectral spread (vs. on rms amplitude)</i> : "strong, crisp"