# Cheatography

## EQ tips Cheat Sheet

by Frederic Villemin (fredv) via cheatography.com/50/cs/73/

EQ Frequency breakdown (1/2)		EQ Frequency breakdown (1/2) (cont)		EQ Frequency breakdown (2/2) (cont)		
<= 30Hz	Virtually undetectable, you can safely cut these frequencies	800Hz	Boost the bass guitar for punch. Cut the electric guitar to remove the "cheap" sound		Boost to add "air" and clarity to acoustic instruments	
40-60Hz	Sub bass Frequencies. "Feel" only			http://www.soundgadget.net		
60- 200Hz	Add for tom "boom". Cut to decrease bass "boom"	2-4kHz	In this area you can emphasize the "smack" of the kick's beater	EQ Instrument breakdown		
80Hz	Boost for the kick drum lower end to cut through the mix. Notch most other instruments here. Rolling off	2.5kHz	Good for adding to a dirty guitar for some real sizzle. Boost this area for bass guitar if using the pop/slap style	Vocals	presence (5 kHz), sibilance (7.5 - 10 kHz), boom (200 - 240 kHz), fullness (120 Hz)	
80- 200Hz	Boost bass instruments for presence. Boost will add warmth and fullness to guitars, vocals and horns	2.5- 5kHz	Boost for clarity with an acoustic guitar and piano	Electric Guitar	fullness (240 Hz), bite (2.5 kHz), air / sizzle (8 kHz)	
		EQ Free	This is the area where vocal sibilance resides. Boost slightly to add sense of "volume" It also adds a harshness that is particularly fatiguing. Add warmth without loss of clarity by attenuating this region a bit	Bass Guitar	bottom (60 - 80 Hz), attack (700 - 1000 Hz), string noise (2.5 kHz)	
100Hz- 4kHz	Scooping/notching instruments here will provide room in the mix			Snare Drum	fatness (240 Hz), crispness (5 kHz)	
<=120Hz	Add for warmth. Too much will sound muddy			Kick Drum	bottom (60 - 80 Hz), slap (4 kHz)	
120- 125Hz	Top of the range for most subwoofers. Also the low end of music such as kick drums and bass guitar. Bottom end of acoustic guitar and piano. Add for warmth			Hi Hat & Cymbals	sizzle (7.5 - 10 kHz), clank (200 Hz)	
		4kHz	Boost vocal here for presence	Toms	attack (5 kHz), fullness (120 - 240	
		4-9kHz	Brightness, presence, definition, sibilance, high frequency distortion	Acoustic	Hz) harshness / bite (2 kHz), boom (120	
120-	Boost for strong vocal presence.	4.5kHz	Extremely tiring to the ears, add a	Guitar	- 200 Hz), cut (7 - 10 kHz)	
600Hz	Causes problems with vocal resonance and fatiguing	5kHz	slight notch here  5kHz Add a crisp, sharp "crack" to the		EQ Helpful suggestions	
200Hz	Slight boost for depth. Cut to reduce muddiness. This is a good area to get the "gong" out of cymbals.		snare. Also a good place to add some attack to the toms. Cut on background parts to make them sink in to the back a bit	Embrace the idea of "notching", when in doubt, cut instead of boosting.		
				Allow instruments to have their own "space" in the frequency spectrum; don't make them fight		
240Hz	Boost to fatten the snare. Boost acoustic guitars slightly to add fullness. Scoop vocal here if muddy. Notch filter here can add thump to a kick drum	>=7kHz	Add for the sense of quality and accuracy for cymbals. Too much output will come off as lacking definition. Cut vocals to decrease sibilance	for it.		
				Understand that instruments of the same type can and will sound different, EQ accordingly.		
				EQing WILL NOT save your mix; you can't EQ		
350- 400Hz	Cut to remove the "cardboard" sound of drums - Notch the bass	8- 12kHz	Cut or Boost to adjust brightness for cymbals and acoustic guitar	out bad sound.  Cut frequencies below 90Hz for vocals, they add little to the mix except mud		
0.6-3kHz	guitar a little bit to reduce presence  Provides presence, but are hard in nature. Good for rock.	9- 15kHz	Adding will give sparkle, shimmer, bring out details. Cutting will smooth	Listen to 15 minutes of well mixed audio before any mixing session		
	nadio. Good for rock.		out harshness and darken the mix	-	reo Width to 30% except special	
					get the noise gate	



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### EQ Helpful suggestions (cont)

The old RIAA AES mechanical rule for vinyl was to cut at 47Hz and 12k, and some great recordings were made this way. Human perception at extreme highs and lows is not all that accurate or sensitive, and a little goes a long way

#### **EQ Glossary**

Attenuatio n	the reduction of a signal level				
Band	range of frequencies				
Boost	selected frequency levels are amplified				
Cut	selected frequency are attenuated				
Presence	increasing causes the sounds of voices and such instruments seem more "present"				
Q	describes the shape of the EQ curve (higher Q = narrower range, lower Q = wider range)				
Sibilance	refers to the hissing "s", "sh", "z", or "zh", sound of the human voice				
Warmth	sound where the bass and low mid frequencies have depth and where the high frequencies are smooth sounding opposed to aggressive or fatiguing				

Thanks to Tikmerd

http://www.homerecording.be/forum/t11664.htm

As well as dB Masters @

http://www.homerecordingconnection.com/news.php

?action=view\_story&id=390

and

http://www.soundgadget.com



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