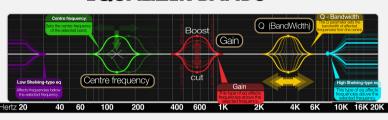




EQUALIZER BANDS



Bell type EQ

A bell type equalizer can be used to cut or boost a selected group of bell-eg is the most in the centre of the bandwidth and decreases towards the end of the bandwidth. The bandwidth of the bell eg is defined with the Q parameter. This sets the amount Of frequencies that High Q values set a small bandwidth.

A full parametric bell-equalizer has all these three functions : Gain.

Shelving EQ

A streining type: Cu-band can either be a low-streining of a high-shelving type.

Low shelving equalizers 'work' below the selected frequency and can be used to cut or boost low frequencies. and car

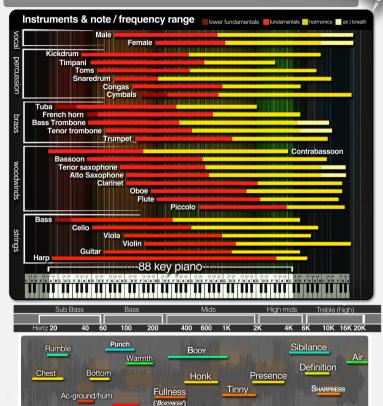
Equalizing in a nutshell.

An equalizer can affect the frequency content of an audio-signal. They are capable of gaining or attenuating a frequency-band. There are various types and models of EQ's, each with their own distinct way of working. The amount of bands on an equalizer determines how many frequency-groups we can affect. The main use of an equalizer in the studio is to create some separation between sounds with overlapping frequencies.

Knowing frequencies is the first step to become 'good at equalizing'. Knowing which frequencies you hear and knowing which frequencies you are looking for are essential in becoming 'fast' with equalizing. This chart shows frequency bands and the name we can give to the human perception of those frequencies...







KNOWING FREQUENCIES

воом

This chart shows the fundamental frequencies and the harmonics of various instruments. It can be really helpful to know where to find frequencies and synonims to decribe frequencies..





Vocals.

Fullness: 120 Hertz Boomy: 200 - 250 Herz Boxyness: 400 - 800 Hertz Body: 800 - 1400 Hertz. Sparkle: 2 KHz and up. Presence: 5 KHz Sibilance: 7.5 KHz+

Remove: +/- 50 or 60 Hertz and below

Kickdrum.

Bottom: 60 - 80 Hertz Body: 120 Hertz Boxy sound: 400 Hertz Attack / drum-skin: 2.5 KHz Overtones: 4 KHz

Snare drum

Body: 120 Hertz Fullness: 240 Hertz Boxy sound: 400 - 600 Hertz Snare: 1.5 - 2.5 KHz Attack: 4 KHz - 5 KHz Overtones: 8 KHz and up

Hi-hat

Bottom (warm Hi-hat): 200 Hertz Attack: 4 KHz Sparkle: 7.5 KHz - 12 KHz

Toms

Fullness: 120 - 250 Hertz Attack: 2 - 4 KHz Cut: 5 KHz

Drums

Boomy Sub: 40 - 70 Hertz Body: 200 - 400 Hertz Presence: 2.5 KHz Clarify: 5 KHz

Cymbals

Bell: 250 Hertz Definition: 7.5 KHz Air: 10 KHz

Electric Guitar

Body / fullness: 240 - 500 Hertz. Warmth: 200 Hertz. Crunch: 500 - 600 Hertz Clarity: 2500 Hertz Air: 5000 Hertz

Bass Guitar

Bottom: 60 - 80 Hertz Warmth: 300 Hertz Attack / pluck: 800 - 1000 Hertz String: 2.5 - 3 KHz

Piano

Bottom: 60 - 80 Hertz Warmth: 300 Hertz Attack / pluck: 800 - 1000 Hertz String: 2.5 - 3 KHz

Acoustic Guitar

Warmth: 200 Hertz. Body / fullness: 300 - 500 Hertz. Clarity: 2 KHz - 5KHz Hertz Attack (strings): 3.5 KHz Cut: 7 KHz

Violin

Warmth: 240 Hertz String: 2.5 KHz Attack (brightness): 7 KHz - 10 KHz

Viola

Warmth: 240 Hertz String: 2 KHz - 2.5 KHz Scratching sound: 4 KHz Attack (brightness): 7 - 10 KHz

Trumpet

Fullness: 120 - 250 Hertz Brass/bell sound: 5000 Hertz Attack: 8 KHz

Horns

Fullness : 120 - 250 Hertz Horny : 2 KHz Open : 4 KHz - 6 KHz

Clarinet

Bell / Round : 300 Hz Clarity : 2.5 KHz Air : 5.2 KHz

Cello

Warmth: 100Hz- 200Hz String: 2 KHz - 2.5 KHz Attack (brightness): 7 - 10 KHz