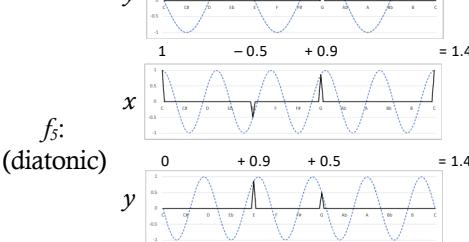
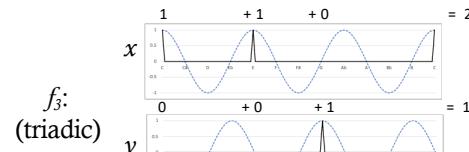
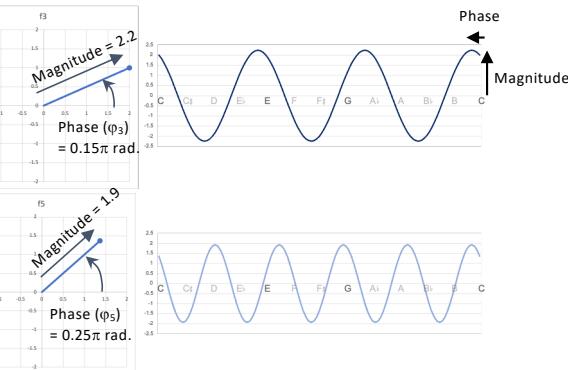
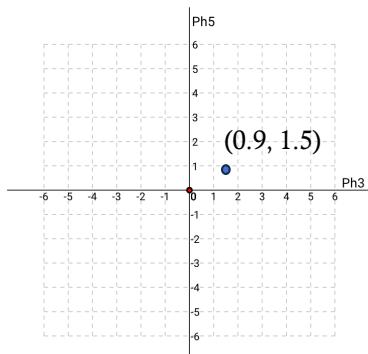


Animated Harmonic Analysis Using DFT Phase Spaces and Coefficient Products: Jason Yust, Giovanni Affatato, Fabian Moss

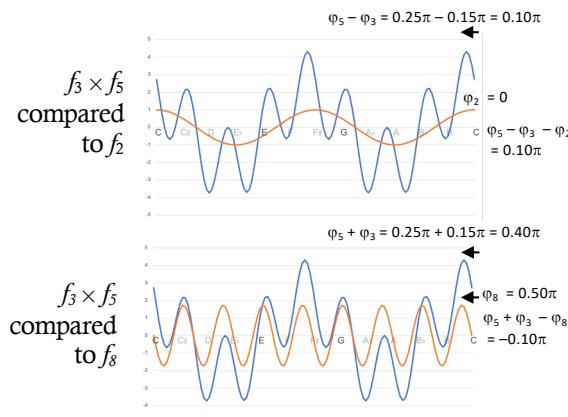
Calculation of triadic and diatonic coefficients for C major triad



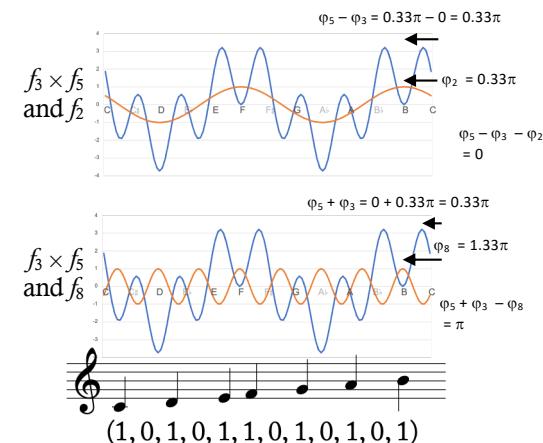
Phase Space



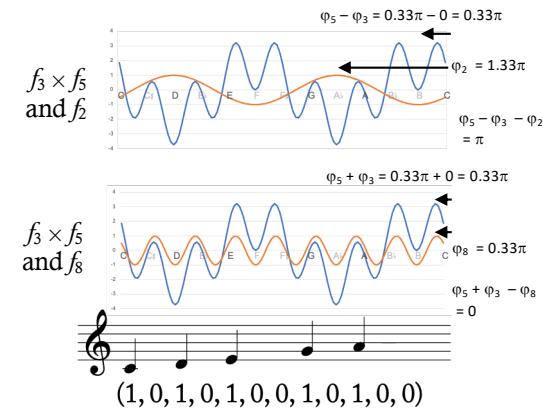
Coefficient products, C maj. triad:



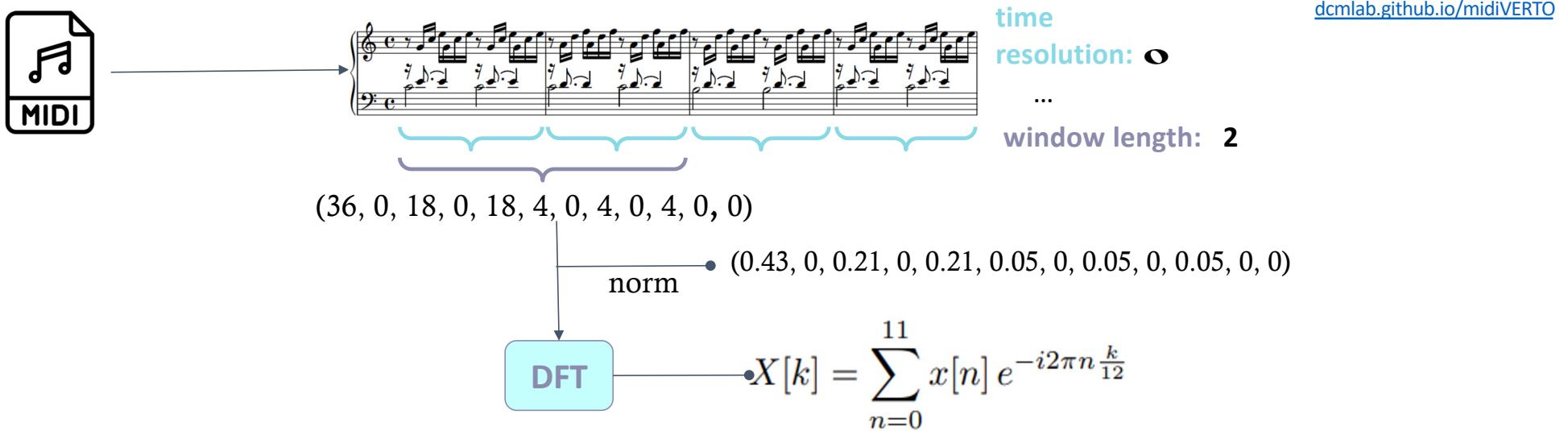
Coefficient products, C diatonic scale:



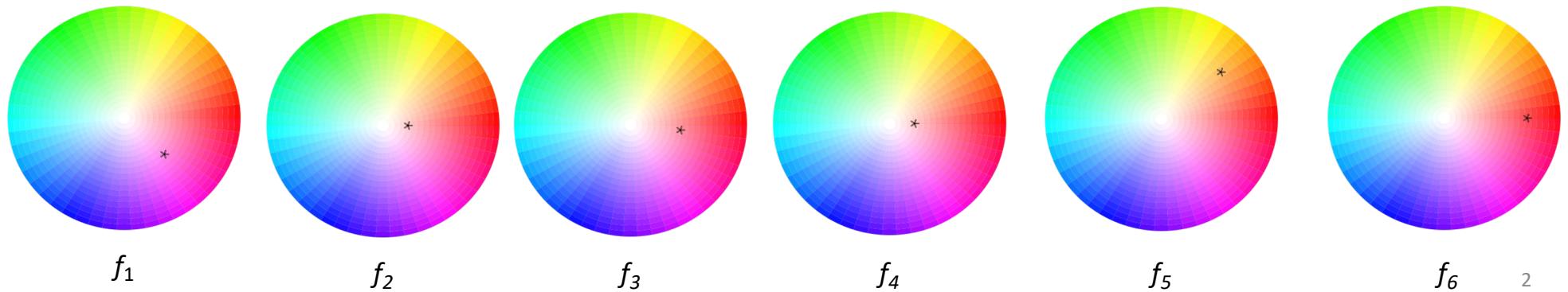
Coefficient products, C pentatonic scale



Animated Harmonic Analysis Using DFT Phase Spaces and Coefficient Products: Jason Yust, Giovanni Affatato, Fabian Moss

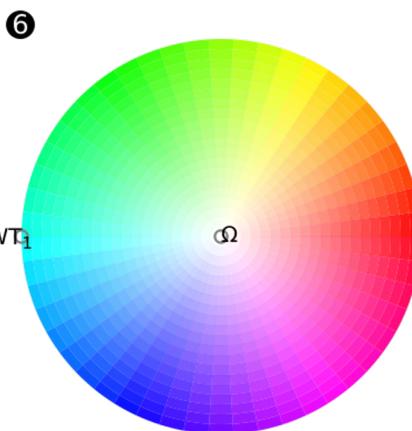
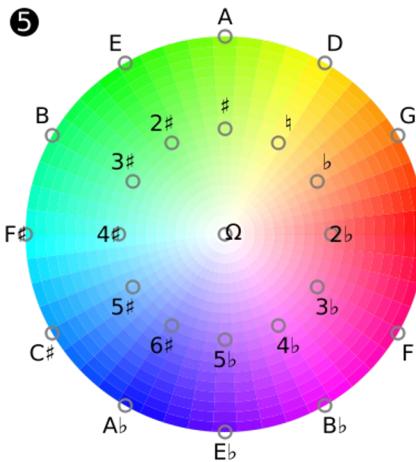
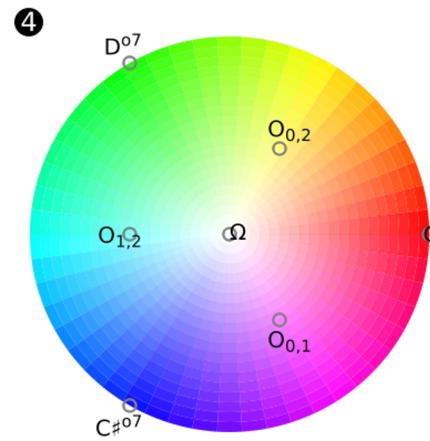
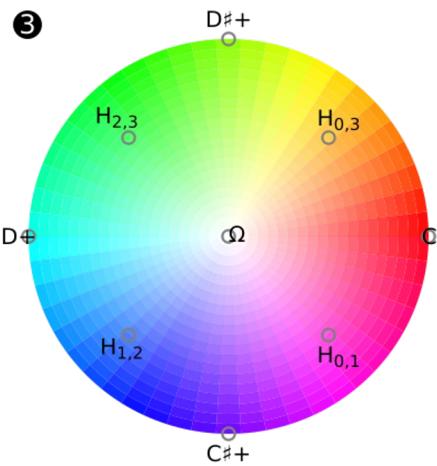
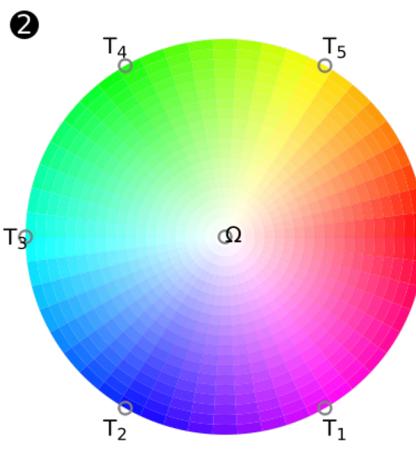
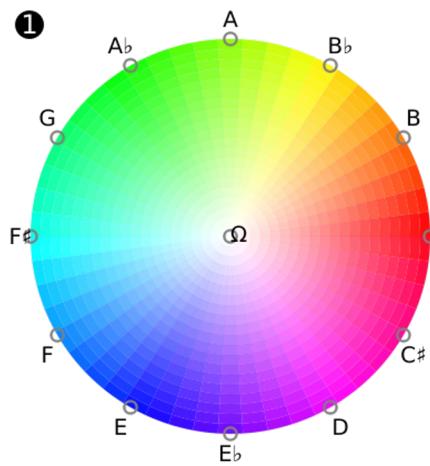


Fourier spaces (colour mapped complex unit disk):



Orientation in space: Prototypes

dcmlab.github.io/midiVERTO



C C♯ D D♯ E F F♯ G G♯ A B♭ B

$$\Omega = (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)$$

A = (0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0)

$$T_0 = (1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0)$$

C+ = (1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0)

$$H_{0,3} = (1, 0, 0, 1, 1, 0, 0, 1, 1, 0, 0, 1)$$

$$C^{07} = (1, 0, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0)$$

$$O_{0,2} = (1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1)$$

$$\natural = (1, 0, 1, 0, 1, 1, 0, 1, 0, 1, 0, 1)$$

$$WT_0 = (1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0)$$