## The Ultimate Harmonic Mixing & Composing Chart A guide to harmonic DJ mixing and composing by Ingo Vogelmann

Major Keys  (or "Dur" in German)						Minor Keys  (or "Moll" in German)					
Composing Keys		DJ Keys		Harmonic Keys		Composing Keys		DJ Keys		Harmonic Keys	
Western Music Scale					DJ Keys up/dow			Camelot Key			DJ Keys up/down
F major A minor	F A C C E G	7B 8A	12d 1m	Fourth (Sub-Dominant) Relative minor	-1	D minor C major	D F A C E G	7A 8B	12m 1d	Fourth (Sub-Dominant) Relative major	-1
C major	CIEIG	8B	1d	Same key (tonic)		A minor	A   C   E	8 <b>A</b>	1m	Same key (tonic)	
G major D-flat/ ♭ major	G   B   D C#   F   G#	9B 3B	2d 8d	Fifth (Dominant)	1	E minor B-flat/ ♭ minor	E   G   B A#   C#   F	9A 3A	2m 8m	Fifth (Dominant)	1
D major	D   F#   A	10B	3d	Low energy boost High energy boost (supertonic)	2	B minor	B   D   F#	10A	3m	Low energy boost High energy boost (supertonic)	2
B major B-flat/ ♭ major	B   D#   F# A#   D   F	1B 6B	6d 11d	Low energy drain High energy drain (leading tone)	-7  -2	A-flat/ ♭ minor G minor	G   B   D# G   A#   D	1A 6A	6m 11m	Low energy drain High energy drain (leading tone)	-7  -2
C major	C E G	8B	1d	Fourth (Sub-Dominant)	-1	A minor	A   C   E	8A	1m	Fourth (Sub-Dominant)	-1
E minor <b>G major</b>	G B D <b>G B D</b>	9A <b>9B</b>	2m <b>2d</b>	Relative minor Same key (tonic)		G major <b>E minor</b>	G B D <b>E G B</b>	9B <b>9A</b>	2d <b>2m</b>	Relative major Same key (tonic)	
D major	D   F#   A	10B	3d	Fifth (Dominant)	1	B minor	B   D   F#	10A	3m	Fifth (Dominant)	1
A-flat/ ♭ major A major	G#   C   D# A   C#   E	4B 11B	9d 4d	Low energy boost High energy boost (supertonic)	7 2	F minor F-sharp/# minor	F   G#   C F#   A   C#	4A 11A	9m 4m	Low energy boost High energy boost (supertonic)	7 2
F-sharp/# major F major	F# A# C# F A C	2B 7B	7d 12d	Low energy drain High energy drain (leading tone)	-7 -2	E-flat/ b minor D minor	D# F# A# D F A	2A 7A	7m 12m	Low energy drain High energy drain (leading tone)	-7 -2
G major	G B D	9B	2d	Fourth (Sub-Dominant)	-1	E minor	E   G   B	9A	2m	Fourth (Sub-Dominant)	-1
B minor  D major	D F# A <b>D F# A</b>	10A <b>10B</b>	3m <b>3d</b>	Relative minor Same key (tonic)		D major <b>B minor</b>	D F# A <b>B D F#</b>	10B <b>10A</b>	3d <b>3m</b>	Relative major Same key (tonic)	
A major	A   C#   E	11B	4d	Fifth (Dominant)	1	F-sharp/# minor	F#   A   C#	11A	4m	Fifth (Dominant)	1
E-flat/♭ major E major	D#   G   A# E   G#   B	5B 12B	10d 5d	Low energy boost High energy boost (supertonic)	7	C minor D-flat/ ♭ minor	C   D#   F C#   E   G#	5A 12A	10m 5m	Low energy boost High energy boost (supertonic)	7
D-flat/♭ major	C#   F   G#	3B	8d	Low energy drain	-7	B-flat/ ♭ minor	A#   C#   F	3A	8m	Low energy drain	-7 -7
C major D major	C   E   G D   F#   A	8B 10B	1d 3d	High energy drain (leading tone) Fourth (Sub-Dominant)	-2  -1	A minor B minor	A   C   E B   D   F#	8A 10A	1m 3m	High energy drain (leading tone) Fourth (Sub-Dominant)	-2  -1
F-sharp/# minor	A   C#   E	11A	4m	Relative minor		A major	A   C#   E	11B	4d	Relative major	
A major E major	<b>A   C#   E</b> E   G#   B	<b>11B</b> 12B	<b>4d</b> 5d	Same key (tonic) Fifth (Dominant)	1	F-sharp/# minor D-flat/ b minor	<b>F#   A   C#</b> C#   E   G#	<b>11A</b> 12A	<b>4m</b> 5m	Same key (tonic) Fifth (Dominant)	1
B-flat/ ♭ major	A#   D   F	6B	11d	Low energy boost	7	G minor	G   A#   D	6A	11m	Low energy boost	7
B major A-flat/♭ major	B   D#   F# G#   C   D#	1B 4B	6d 9d	High energy boost (supertonic) Low energy drain	-7	A-flat/ ♭ minor F minor	G   B   D# F   G#   C	1A 4A	6m 9m	High energy boost (supertonic) Low energy drain	-7
G major A major	G   B   D A   C#   E	9B 11B	2d 4d	High energy drain (leading tone) Fourth (Sub-Dominant)	-2 -1	E minor F-sharp/# minor	E   G   B F#   A   C#	9A 11A	2m 4m	High energy drain (leading tone) Fourth (Sub-Dominant)	-2 -1
D-flat/   minor	E   G#   B	12A	5m	Relative minor		E major	E   G#   B	12B	5d	Relative major	
E major	<b>E   G#   B</b>	12B	<b>5d</b> 6d	Same key (tonic)	4	<b>D-flat/</b> ♭ <b>minor</b> A-flat/ ♭ minor	C#   E   G#	12A	5m	Same key (tonic)	4
B major F major	B D# F# F A C	1B 7B	12d	Fifth (Dominant) Low energy boost	7	D minor	G B D# D F A	1A 7A	6m 12m	Fifth (Dominant) Low energy boost	7
F-sharp/# major E-flat/ ♭ major	F#   A#   C# D#   G   A#	2B 5B	7d 10d	High energy boost (supertonic) Low energy drain	2 -7	E-flat/ b minor C minor	D# F# A# C D# F	2A 5A	7m 10m	High energy boost (supertonic) Low energy drain	2 -7
D major	D   F#   A	10B	3d	High energy drain (leading tone)	-2	B minor	B   D   F#	10A	3m	High energy drain (leading tone)	-2
E major A-flat/♭ minor	E   G#   B B   D#   F#	12B 1A	5d 6m	Fourth (Sub-Dominant) Relative minor	-1	D-flat/ ♭ minor B major	C#   E   G# B   D#   F#	12A 1B	5m 6d	Fourth (Sub-Dominant) Relative major	-1
B major	B   D#   F#	1B	6d	Same key (tonic)		A-flat/ ♭ minor	G   B   D#	1A	6m	Same key (tonic)	
F-sharp/# major C major	F# A# C# C E G	2B 8B	7d 1d	Fifth (Dominant) Low energy boost	1 7	E-flat/ ♭ minor A minor	F# A# C# A C E	2A 8A	7m 1m	Fifth (Dominant) Low energy boost	1 7
D-flat/ ♭ major	C#   F   G#	3B 6B	8d	High energy boost (supertonic)	2	B-flat/ ♭ minor	A#   C#   F	3A	8m	High energy boost (supertonic)	2
B-flat/♭ major A major	A#   D   F A   C#   E	11B	11d 4d	Low energy drain High energy drain (leading tone)	-7 -2	G minor F-sharp/# minor	G   A#   D F#   A   C#	6A 11A	11m 4m	Low energy drain High energy drain (leading tone)	-7 -2
B major E-flat/ ♭ minor	B   D#   F# F#   A#   C#	1B 2A	6d 7m	Fourth (Sub-Dominant) Relative minor	-1	A-flat/ ♭ minor F-sharp/# major	G   B   D# F#   A#   C#	1A 2B	6m 7d	Fourth (Sub-Dominant) Relative major	-1
F-sharp/# major	F#   A#   C#	2B	7d	Same key (tonic)		E-flat/ b minor	D#   F#   A#	2A	7m	Same key (tonic)	
D-flat/♭ major G major	C# F G# G B D	3B 9B	8d 2d	Fifth (Dominant) Low energy boost	1	B-flat/ ♭ minor E minor	A# C# F E G B	3A 9A	8m 2m	Fifth (Dominant) Low energy boost	1
A-flat/ ♭ major	G#   C   D#	4B	9d	High energy boost (supertonic)	2	F minor	F   G#   C	4A	9m	High energy boost (supertonic)	2
F major E major	F A C E G# B	7B 12B	12d 5d	Low energy drain High energy drain (leading tone)	-7 -2	D minor D-flat/ b minor	D F A C# E G#	7A 12A	12m 5m	Low energy drain High energy drain (leading tone)	-7  -2
F-sharp/# major B-flat/ b minor	F#   A#   C#	2B 3A	7d 8m	Fourth (Sub-Dominant) Relative minor	-1	E-flat/ b minor	F#   A#   C#	2A 3B	7m 8d	Fourth (Sub-Dominant)	-1
D-flat/   major	C# F G# <b>C# F G#</b>	3 <b>B</b>	8d	Same key (tonic)		D-flat/ ♭ major <b>B-flat/ ♭ minor</b>	C# F G# <b>A# C# F</b>	3A	8m	Relative major  Same key (tonic)	
A-flat/ ♭ major	G#   C   D#	4B	9d	Fifth (Dominant)	1	F minor	F   G#   C	4A	9m	Fifth (Dominant)	1
D major E-flat/ ♭ major	D   F#   A D#   G   A#	10B 5B	3d 10d	Low energy boost High energy boost (supertonic)	2	B minor C minor	B   D   F# C   D#   F	10A 5A	3m 10m	Low energy boost High energy boost (supertonic)	2
C major B major	C   E   G B   D#   F#	8B 1B	1d 6d	Low energy drain High energy drain (leading tone)	-7 -2	A minor A-flat/ ♭ minor	A   C   E G   B   D#	8A 1A	1m 6m	Low energy drain High energy drain (leading tone)	-7 -2
D-flat/ ♭ major	C#   F   G#	3B	8d	Fourth (Sub-Dominant)	-1	B-flat/ ♭ minor	A#   C#   F	3A	8m	Fourth (Sub-Dominant)	-1
F minor <b>A-flat/ ♭ major</b>	G# C D# <b>G# C D#</b>	4A <b>4B</b>	9m <b>9d</b>	Relative minor Same key (tonic)		A-flat/ ♭ major <b>F minor</b>	G# C D# <b>F G# C</b>	4B <b>4A</b>	9d <b>9m</b>	Relative major Same key (tonic)	
E-flat/ ♭ major	D#   G   A#	5B	10d	Fifth (Dominant)	1	C minor	C   D#   F	5A	10m	Fifth (Dominant)	1
A major B-flat/♭ major	A   C#   E A#   D   F	11B 6B	4d 11d	Low energy boost High energy boost (supertonic)	7	F-sharp/# minor G minor	F#   A   C# G   A#   D	11A 6A	4m 11m	Low energy boost High energy boost (supertonic)	7
G major	G B D	9B 2B	2d	Low energy drain	-7	E minor	E G B	9A	2m	Low energy drain	-7
F-sharp/# major A-flat/ ♭ major	F#   A#   C# G#   C   D#	4B	7d 9d	High energy drain (leading tone) Fourth (Sub-Dominant)	-1	E-flat/ ♭ minor F minor	F# A# C# F G# C	2A 4A	7m 9m	High energy drain (leading tone) Fourth (Sub-Dominant)	-1
C minor	D#   G   A#	5A <b>5B</b>	10m <b>10d</b>	Relative minor		E-flat/ b major	D#   G   A#	5B <b>5A</b>	10d	Relative major	
<b>E-flat/ ♭ major</b> B-flat/ ♭ major	<b>D#   G   A#</b> A#   D   F	6B	10 <b>a</b> 11d	Same key (tonic) Fifth (Dominant)	1	C minor G minor	<b>C   D#   F</b> G   A#   D	6A	<b>10m</b> 11m	Same key (tonic) Fifth (Dominant)	1
E major F major	E   G#   B F   A   C	12B 7B	5d 12d	Low energy boost High energy boost (supertonic)	7	D-flat/ ♭ minor D minor	C# E G# D F A	12A 7A	5m 12m	Low energy boost High energy boost (supertonic)	7
D major	D   F#   A	10B	3d	Low energy drain	-7	B minor	B   D   F#	10A	3m	Low energy drain	-7
D-flat/ ♭ major E-flat/ ♭ major	C#   F   G# D#   G   A#	3B 5B	8d 10d	High energy drain (leading tone) Fourth (Sub-Dominant)	-2 -1	B-flat/ b minor C minor	A#   C#   F C   D#   F	3A 5A	8m 10m	High energy drain (leading tone) Fourth (Sub-Dominant)	-2 -1
G minor	A#   D   F	6A	11m	Relative minor		B-flat/ b major	A#   D   F	6B	11d	Relative major	
B-flat/ b major F major	<b>A# D F</b> F A C	<b>6B</b> 7B	<b>11d</b> 12d	Same key (tonic) Fifth (Dominant)	1	<b>G minor</b> D minor	<b>G   A#   D</b> D F A	<b>6A</b> 7A	<b>11m</b> 12m	Same key (tonic) Fifth (Dominant)	1
B major	B   D#   F#	1B	6d	Low energy boost	7	A-flat/ ♭ minor	G   B   D#	1A	6m	Low energy boost	7
C major A major	C   E   G A   C#   E	8B 11B	1d 4d	High energy boost (supertonic) Low energy drain	-7	A minor F-sharp/# minor	A   C   E F#   A   C#	8A 11A	1m 4m	High energy boost (supertonic) Low energy drain	-7
A-flat/ ♭ major	G#   C   D#	4B	9d	High energy drain (leading tone)	-2 -1	F minor	F   G#   C	4A	9m	High energy drain (leading tone)	-2
B-flat/ ♭ major D minor	A# D F F A C	6B 7A	11d 12m	Fourth (Sub-Dominant) Relative minor		G minor F major	G   A#   D F   A   C	6A 7B	11m 12d	Fourth (Sub-Dominant) Relative major	
F major	F A C	7B	12d	Same key (tonic)		D minor	D F A	7A	12m	Same key (tonic)	
C major F-sharp/# major	C   E   G F#   A#   C#	8B 2B	1d 7d	Fifth (Dominant) Low energy boost	1 7	A minor E-flat/ b minor	A   C   E F#   A#   C#	8A 2A	1m 7m	Fifth (Dominant) Low energy boost	7
G major	G B D	9B 12B	2d	High energy boost (supertonic)	2	E minor	E G B	9A	2m	High energy boost (supertonic)	2
E major E-flat/ ♭ major	E   G#   B D#   G   A#	12B 5B	5d 10d	Low energy drain High energy drain (leading tone)	-7	D-flat/ b minor C minor	C#   E   G# C   D#   F	12A 5A	5m 10m	Low energy drain High energy drain (leading tone)	-2