

Common Chords Derived from Scales

Ted Greene, 1974-02-23

Major Scale

I	(1, 2, 3, 4, 5, 6, 7)	triad, 6th, 6/9, /9, $\Delta 7$, $\Delta 9$, $\Delta 13$, $\Delta 7/6$
ii	(1, 2, b3, 4, 5, 6, b7)	triad, m6, m7, m9, m7/11, m11, m13, m7/6 (11), m6/9, m6/11, m6/9/11
iii	(1, b2, b3, 4, 5, b6, b7)	triad, m7, m7/11, m7/11b9, m7b9, m7+
IV	(1, 2, 3, #4, 5, 6, 7)	triad, /#11, 6/9#11, $\Delta 7\#11$, $\Delta 9\#11$, ($\Delta 7b5$, 6b5, $\Delta 9b5$), 6, 6/9, /9, $\Delta 7$, $\Delta 9$, $\Delta 13$, (/9#11, $\Delta 13\#11$)
V	(1, 2, 3, 4, 5, 6, b7)	triad, 7, 9, 7/6, 13, 7sus, 7/6sus, 9sus(11), 13sus, 7/11, 7/6/11, /9, 6, 6/9
vi	(1, 2, b3, 4, 5, b6, b7)	triad, m7, m7/11, m9, m13, m/9, m7+
vii	(1, b2, b3, 4, b5, b6, b7)	diminished triad, $\emptyset 7$, $\emptyset 7/11$, $\emptyset 7b9$, m7+, $\emptyset 7+$

Melodic Minor

i	(1, 2, b3, 4, 5, 6, 7)	triad, m/9, m6, m6/9, m6/11, m6/9/11, m6/ $\Delta 7$, m6/9/ $\Delta 7$, m $\Delta 7$, m $\Delta 7/9$, m $\Delta 7/9/11$, m6/7
ii	(1, b2, b3, 4, 5, 6, b7)	triad, m6, m7, m7b9, m7/11, m7/11b9, m7/6
bIII+	(1, 2, 3, #4, #5, 6, 7)	+triad, $\Delta 7+$, $\Delta 9+$, /9+ ($\Delta 7b5$, 6b5, $\Delta 9b5$) IV in major better
IV	(1, 2, 3, #4, 5, 6, b7)	triad, 7, 9, 13, 7/6, 7b5(#11), 9b5(#11), 13#11, 6, 6/9, /9
V	(1, 2, 3, 4, 5, #5, b7)	triad, 7, 9, 7+, 9+, /9, 7sus, 11
vi \circ	(1, 2, b3, 4, b5, b6, b7)	\circ triad, $\emptyset 7$, $\emptyset 9$, $\emptyset 7/11$, m7+, $\emptyset 7+$
vii \circ	(1, b2, b3, 3, b5, #5, b7)	\circ triad, + triad, $\emptyset 7$, $\emptyset 7b9$, m7+, $\emptyset 7+$, 7+, 7b5, 7b9+, 7b9b5, 7#9+, 7#9b5

Harmonic Minor

i	(1, 2, b3, 4, 5, b6, 7)	triad, m $\Delta 7$, m $\Delta 7/9$, m $\Delta 7/9/11$
ii \circ	(1, b2, b3, 4, b5, 6, b7)	\circ triad, $\emptyset 7$, $\emptyset 7b9$, $\emptyset 7/11$
bIII+	(1, 2, 3, 4, #5, 6, 7)	+ triad, $\Delta 7+$, $\Delta 9+$, /9+
iv	(1, 2, b3, #4, 5, 6, b7)	triad, m7, m9, m6, m6/9, \circ triad, $\emptyset 7$, $\emptyset 9$
V	(1, b2, 3, 4, 5, b6, b7)	triad, 7, 7b9, 11b9, 11b9+, 7b9+, 7+, +
bVI	(1, b3, 3, #4, 5, 6, 7)	triad, $\Delta 7$, $\Delta 7\#11$, /#11, m, m $\Delta 7$, m6, $\emptyset 7$
vii \circ	(1, b2, b3, 3, b5, #5, 6)	\circ triad, $\circ 7$, $\circ 9$, + triad

Melodic Hungarian Minor

i	(1, 2, b3, #4, 5, 6, 7)	triad, m $\Delta 7$, m6, m $\Delta 7/9$, m6/9
II	(1, b2, 3, 4, 5, 6, b7)	triad, 6, 7, 7b9, 13b9, 11b9
bIII+	(1, b3, 3, #4, #5, 6, 7)	+, $\Delta 7+$, $\Delta 7b5$, $\emptyset 7$, m7+, $\emptyset 7+$
#iv \circ	(1, b2, b3, 4, b5, #5, 6)	\circ triad, $\circ 7$, $\circ 7b9$
V	(1, 2, 3, 4, 5, b6, 7)	triad, $\Delta 7$, $\Delta 9$, /9, $\Delta 7+$, $\Delta 9+$, /9+, +
vi \circ	(1, 2, b3, 4, b5, 6, b7)	\circ triad, $\emptyset 7$, $\emptyset 7/11$, $\emptyset 9$, $\emptyset 11$, $\circ 7$, $\circ 9$
vii	(1, b2, b3, 3, 5, b6, b7)	minor triad, m7, m7b9, m7+, major triad, 7, 7b9, 7#9, +, 7+, 7#9+, 7b9+

Hungarian Minor

i	(1, 2, b3, #4, 5, b6, 7)	triad, m ^Δ 7, m ^Δ 7/9, ° triad, ø7, ø9
II(b5)	(1, b2, 3, 4, b5, 6, b7)	major b5, 7b5, 7b9b5, 13b9b5
bIII+	(1, b3, 3, 4, #5, 6, 7)	+ triad, ^Δ 7+
iv(b9)	(b2, 2, b3, b5, 5, 6, b7)	
V	(1, b2, 3, 4, 5, b6, 7)	triad, ^Δ 7
bVI	(1, b3, 3, b5, 5, b7, 7)	triad, ^Δ 7, ^Δ 7#11, 7, 7b5, 7#9, 7#9#11
vii	(1, b2, b3, 3, 5, b6, 6)	minor triad, m6, major triad, 6

Whole Tone: +, 7b5, 7+, 9b5, 9+

Diminished Scale (1/2, whole): 7b9, 13b9, 7b9b5, 13b9b5, 7#9, 7#9b5, 13#9

Diminished Scale (whole, 1/2):

(1, 2, b3, 4, b5, b6, 6, 7)	° triad, °7, °9
(b2, 2, 3, 4, 5, b6, b7, 7)	9 (no root), ^Δ 9 (no root), 9+ (no root)

Future Project: all Pentatonics and their chords

Scale Preferences:

Major and extensions:	Lydian, major
Major #11 family:	Lydian
Major + family:	Phrygian Melodic Minor
Minor 7th family:	Dorian (Aeolian and Phrygian)
Minor 7b5 family:	Locrian, Dorian Harmonic Minor, Aeolian Melodic Minor (major keys)
Minor 6 ^Δ 7 family:	Melodic Minor, Harmonic Minor (m ^Δ 7 family)
Dom. 7, 9, 13, (7/6), 7sus, 11, 13sus, (7/6sus), 7/11, 7/6/11:	Mixolydian, (Lydian Melodic Minor on 7, 9, 13, 7/6 only)
Dom. 7, 9, 13 (7/6), 7b5 (#11), 9b5, #11, 13#11:	Lydian Melodic Minor
+, 7b5, 7+, 9+, 9b5 :	Whole Tone
+, 7+, 9+ :	Mixolydian Melodic Minor
+, 7+, 7b5, 7b9+, 7#9+, 7b9b5, 7#9b5 :	Locrian Melodic Minor
+, 7, 7b9, 7#9, 7+, 7#9+, 7b9+ :	Locrian Melodic Hungarian Minor
+, 7, 7b9, 11b9, 11b9+, 7b9+, 7+ :	Mixolydian Harmonic Minor
7, 7b9, 13b9, 11b9 :	Dorian Melodic Hungarian Minor
7b5, 7b9b5, 13b9b5 :	Dorian Hungarian Minor
7b9, 13b9, 7b9b5, 13b9b5, 7#9, 7#9b5, 13#9 :	1/2, Whole Diminished Scale
°, °7, °9 :	Whole, 1/2 Diminished Scale

COMMON CHORDS DERIVED FROM SCALES

1-22-77

MAJOR SCALE

I (1,2,3,4,5,6,7) triad, 6th, 6/9, 1/9 7, 9, 13, 7#6	ii (1,2,3,4,5,6,7) tr., m6, m7, m9, m7/11, m11 m13, m7/6 (11) m6/9, m6/11 m6/9/11	iii (1,2,3,4,5,6,7) tr., m7, m7/11, m7/11, 6/9, m7/6 m7+	IV (1,2,3,4,5,6,7) tr., /+11, 6/9+11, 7/11 7+11, 6, 6/9, 1/9, 7/9 13, (1/9+11, 13+11)	V (1,2,3,4,5,6,7) tr., 7, 9, 7/6, 13, 7suo. 7/6 suo, 9 suo (11), 13 suo 7/11, 7/6/11, 9, 6, 6/9	vi (1,2,3,4,5,6,7) tr., m7, m7/11, m9 m13, m19, m7+	vii° (1,2,3,4,5,6,7) otr., 6/7, 6/7/11, 6/7/9 m7+, 6/7+
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MELODIC MINOR

i (1,2,3,4,5,6,7) tr., m9, m6, m6/9, m6/11, m6/9/11, m6/7 m6/9/7, m7, m7/9 m7/9/11, m6/7	ii (1,2,3,4,5,6,7) tr., m6, m7, m1/9 m7/11, m7/11, 6/9, m1/9 7/6, 6/6, 6/6, 6/6	bIII+ (1,2,3,4,5,6,7) +tr., 7+, 9+, 1/9+ 7/6, 6/6, 6/6, 6/6	IV (1,2,3,4,5,6,7) tr., 7, 9, 13, 7/6 7/6 (+11), 6/6 (+11) 13+11, 6, 6/9, 1/9	V (1,2,3,4,5,6,7) tr., 7, 9, 7+, 9+, 1/9 7 suo, 11	vi° (1,2,3,4,5,6,7) otr., 6/7, 6/9, 6/7/11 m7+, 6/7+	vii° (1,2,3,4,5,6,7) otr., +tr., 6/7, 6/7/6, m7+, 6/7+ 7+, 7/6 7/9+, 7/6/6, 7/9+, 7/6/6
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HARMONIC MINOR

i (1,2,3,4,5,6,7) tr., m7, m7/9, m7/9/11	ii° (1,2,3,4,5,6,7) otr., 6/7, 6/7/6, 6/7/11	bIII+ (1,2,3,4,5,6,7) +tr., 7+, 9+, 1/9+	iv (1,2,3,4,5,6,7) tr., m7, m9, m6, m6/9, otr., 6/7, 6/9	v (1,2,3,4,5,6,7) tr., 7, 7/6, 11, 6/9, 11/6/9+	bvi (1,2,3,4,5,6,7) tr., 7, 7+11, /+11, m, m7, m6, 6/7	vii° (1,2,3,4,5,6,7) otr., 6/7, 6/9 +tr.
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MELODIC HUNG. MINOR

i (1,2,3,4,5,6,7) tr., m7, m6, m7/9 m6/9	ii (1,2,3,4,5,6,7) tr., 6, 7, 7/6, 13/6 11/6, 9	bIII+ (1,2,3,4,5,6,7) +tr., 7+, 9+, 6/7, m7+, 6/7+	#iv° (1,2,3,4,5,6,7) otr., 6/7, 6/9, 6/7/9	v (1,2,3,4,5,6,7) tr., 7, 9, 7+, 9+ 1/9+, +	vi° (1,2,3,4,5,6,7) otr., 6/7, 6/7/11, 6/9, 6/11, 6/7, 6/9	vii (1,2,3,4,5,6,7) tr., m7, m7/6, m7/9, m7/11 maj tr., 7, 7/6, 7/9 7/9+, 7/6/9+, 7/6/9+
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HUNGARIAN MINOR

i (1,2,3,4,5,6,7) tr., m7, m7/9, 6/7, 6/7, 6/9	ii(b5) (1,2,3,4,5,6,7) maj tr., 7/6, 7/6/6, 13/6/6	bIII+ (1,2,3,4,5,6,7) +tr., 7+,	iv(b7) (1,2,3,4,5,6,7) tr., 7,	v (1,2,3,4,5,6,7) tr., 7,	bvi (1,2,3,4,5,6,7) tr., 7, 7+11, 7, 7/6 7/9, 7/9+11	vii (1,2,3,4,5,6,7) tr., m6, maj tr., 6,
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SCALE PREFERENCES:

- MAJOR + EXT = LYDIAN, MAJOR
- MAJOR + II FAMILY: LYDIAN
- MAJOR + FAMILY: PHRYGIAN, MELODIC MINOR

- MINOR 7th FAMILY: DORIAN, ^(Aeolian) Phrygian
- MINOR 7b5 FAMILY: LOCRIAN, DORIAN HARM., Aeolian Melodic
- MINOR 6, 7 FAMILY: MELODIC, HARM. (m7 fam)

+7/6, 7/6
9/6, 9/6

also whole tone:
also dim. scale:
(1/2 whole)
7/6, 13/6, 7/6/6, 13/6/6, 7/6/6, 13/6/6
13/6/6

dim scale:
(whole 2)
(1,2,3,4,5,6,6,7)
otr., 6/7, 6/9

dim scale:
(6,2,2,3,4,5,6,6,7)
9 (no root), 9 (no root)
9+ (no root), 9+ (no root)

FUTURE PROJECT:
all pentatonic
+ their chords

- Dom 7, 9, 13, 7/6, 7suo, 11, 13suo, 7/6suo, 7/11, 7/6/11 = MIXOLYDIAN (LYDIAN MELODIC MINOR)
- Dom 7, 9, 13, 7/6, 7/6 (+11), 9/6 (+11), 13/11 = LYDIAN MEL. MINOR ON 7, 9, 13, 7/6 only
- (+, 7/6, 7+, 9+, 9/6 : WHOLE TONE)
- +, 7+, 9+ : MIXOLYD. MEL. MINOR
- + 7+, 7/6, 7/6+, 7/6/9, 7/6/9+, 7/6/9/6, 7/6/9/6 : LOCRIAN MELODIC
- +, 7, 7/6, 7/6+, 7+, 7/6/9+, 7/6/9+ : LOCRIAN MELODIC HUNGARIAN
- +, 7, 7/6, 11/6, 11/6+, 7/6/9+, 7+ : MIXOLYD. HARMONIC
- 7, 7/6, 13/6, 11/6 : DORIAN MELODIC HUNGARIAN
- 7/6, 7/6/6, 13/6/6 : DORIAN HUNGARIAN
- 7/6, 13/6, 7/6/6, 13/6/6, 7/6/6, 13/6/6 : 1/2 whole diminished SCALE
- 7/6, 7/6/6, 13/6/6 : whole, 1/2 "
- 6, 6/7, 6/9 : whole, 1/2 "