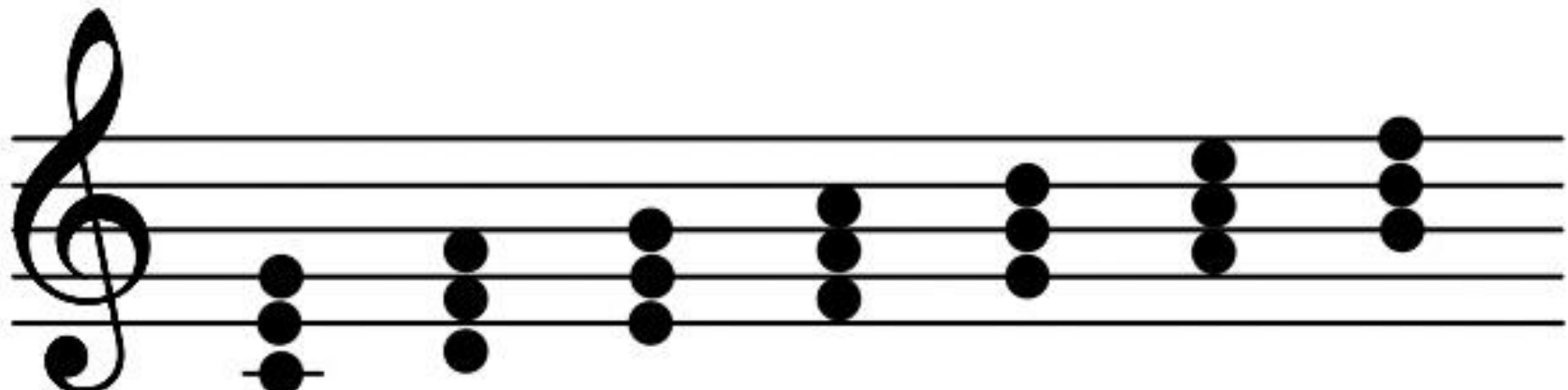


Chords are built on a scale.

When you have the scale of C you get the following overview when you stack the notes on top of each other. We start with three notes, one above the other, the triads.



A musical staff in treble clef showing seven triads. Each triad consists of three notes stacked vertically. The notes are labeled below the staff as follows:

Triad	Notes (bottom to top)
g	c, e, g
a	d, f, a
b	e, g, b
c	f, a, c
d	g, b, d
e	a, c, e
f	b, d, f

### Major scales

	1	2	3	4	5	6	7	8
I	c	d	e	f	g	a	b	c
II	d	e	f#	g	a	b	c#	d
III	e	f#	g#	a	b	c#	d#	e
IV	f	g	a	b $\flat$	c	d	e	f
V	g	a	b	c	d	e	f#	g
VI	a	b	c#	d	e	f#	g#	a
VII	b	c#	d#	e	f#	g#	a#	b

You can relate these triads to the major scales. To calculate the formulas of the triads we have found, we number each note in the major scales.

The triad that begins with the note c is placed next to the scale of C,  
the triad that starts with the note d is placed next to the scale of D, and so on

	1	2	3	4	5	6	7	8	Triads		
I	c	d	e	f	g	a	b	c	c	e	g
II	d	e	f#	g	a	b	c#	d	d	f	a
III	e	f#	g#	a	b	c#	d#	e	e	g	b
IV	f	g	a	b	c	d	e	f	f	a	c
V	g	a	b	c	d	e	f#	g	g	b	d
VI	a	b	c#	d	e	f#	g#	a	a	c	e
VII	b	c#	d#	e	f#	g#	a#	b	b	d	f

The chords that have remained unchanged are called major chords (1 3 5).  
 The chords where the third note is lowered are called minor chords (1 -3 5).  
 The chords where the third and fifth notes are lowered are called minor -5  
 or diminished (1 -3 -5).

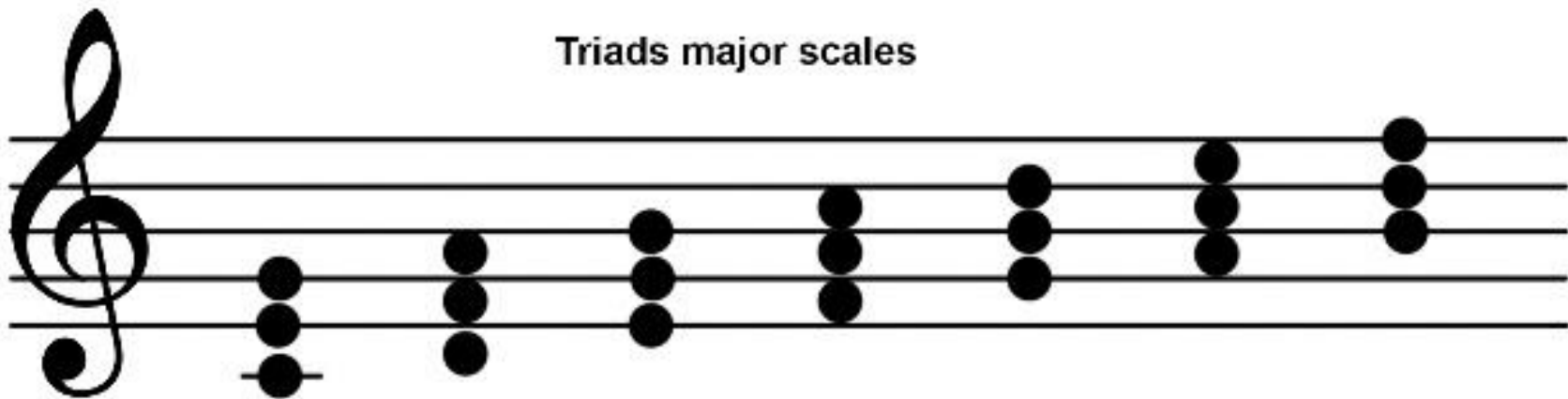
	1	2	3	4	5	6	7	8							
I	c	d	e	f	g	a	b	c	c	e	g	1	3	5	major
II	d	e	f#	g	a	b	c#	d	d	f	a	1	-3	5	minor
III	e	f#	g#	a	b	c#	d#	e	e	g	b	1	-3	5	minor
IV	f	g	a	b	c	d	e	f	f	a	c	1	3	5	major
V	g	a	b	c	d	e	f#	g	g	b	d	1	3	5	major
VI	a	b	c#	d	e	f#	g#	a	a	c	e	1	-3	5	minor
VII	b	c#	d#	e	f#	g#	a#	b	b	d	f	1	-3	-5	m-5 or dim (0)

**In this way you can make the corresponding chords for each scale whether you're making triads or tetrads or even pentads.**

**In this story I limit myself to the triads and the quadrads of the major and minor scales.**

**The following pages contain an overview of the scale and its chords, elaborated in the scales of C and Am.**

### Triads major scales



I

II

III

IV

V

VI

VII

Formula

c e g

d f a

e g b

f a c

g b d

a c e

b d f

1 3 5

1-3 5

1-3 5

1 3 5

1 3 5

1-3 5

1-3 -5

Chords

major

minor

minor

major

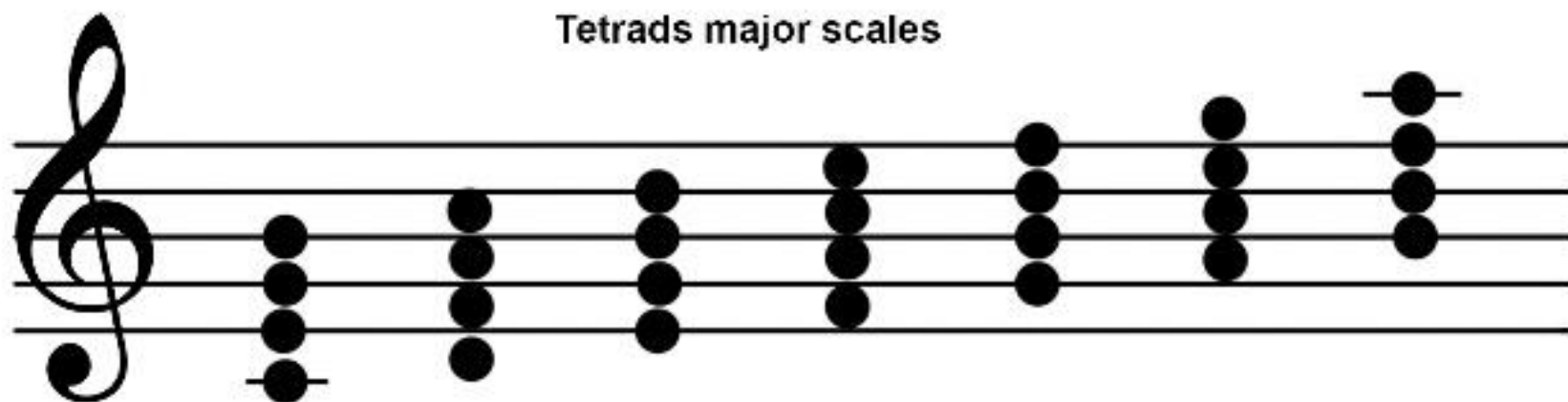
major

minor

m-5 or  
dim (o)

	I	II	III	IV	V	VI	VII
	c e g	d f a	e g b	f a c	g b d	a c e	b d f
Formula	1 3 5	1-3 5	1-3 5	1 3 5	1 3 5	1-3 5	1-3 -5
Chords	major	minor	minor	major	major	minor	m-5 or dim (o)

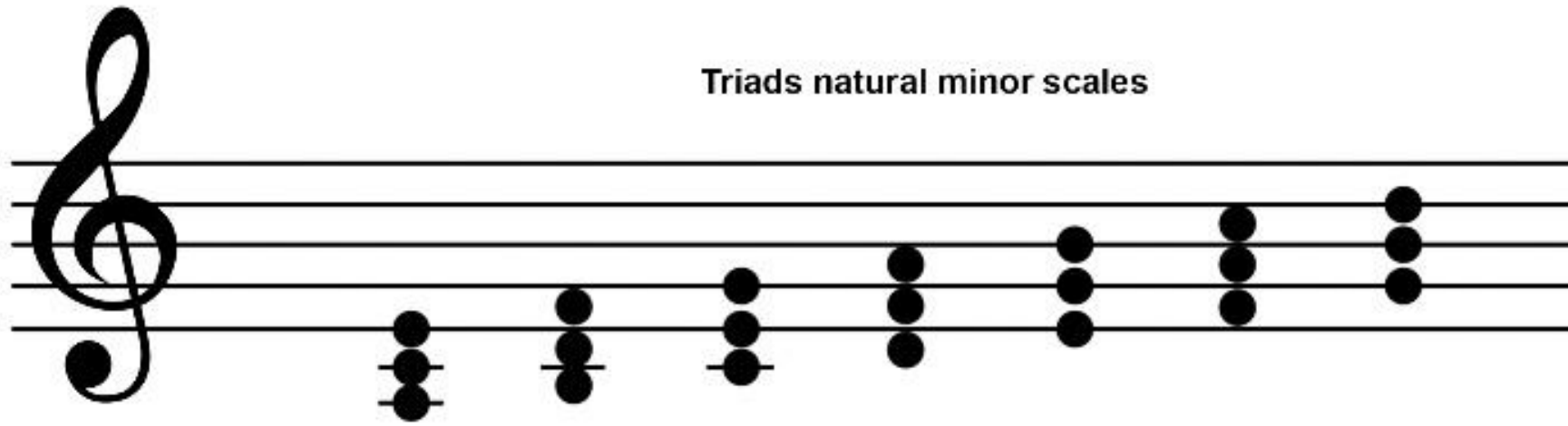
### Tetrads major scales



I II III IV V VI VII

	c e g b	d f a c	e g b d	f a c e	g b d f	a c e g	b d f a
Formula	1 3 5 7	1-3 5 -7	1-3 5 -7	1 3 5 7	1 3 5 -7	1-3 5 -7	1-3 -5 -7
Chords	major 7	minor 7	minor 7	major 7	7	minor 7	m7-5

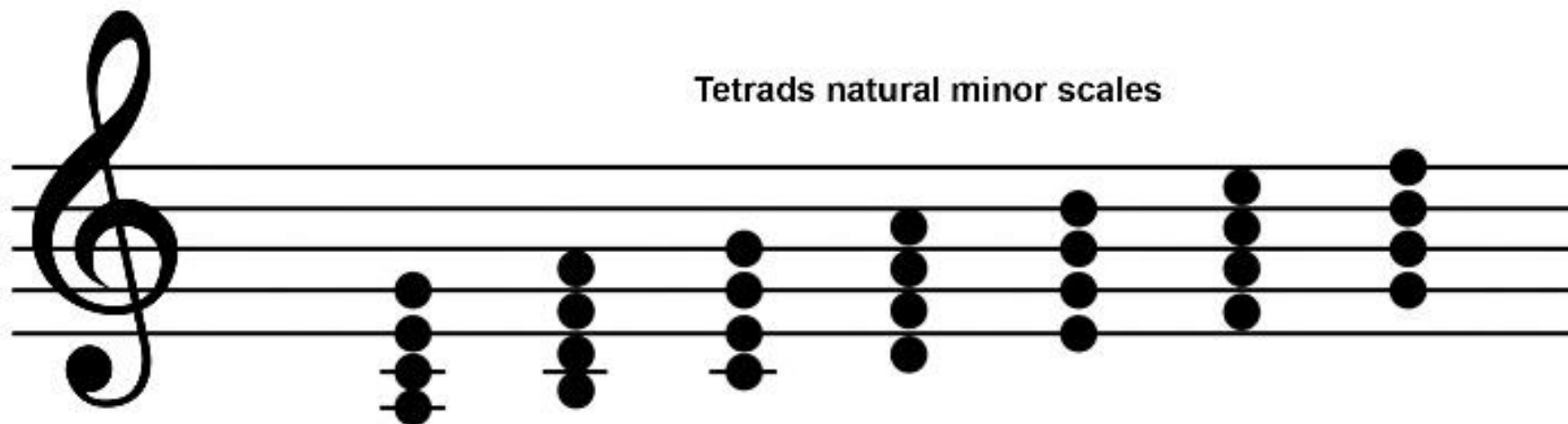
### Triads natural minor scales



	I	II	III	IV	V	VI	VII
<b>Formula</b>	a c e	b d f	c e g	d f a	e g b	f a c	g b d
	1 -3 5	1 -3 -5	1 3 5	1 -3 5	1 -3 5	1 3 5	1 3 5
<b>Chords</b>	m	dim	mj	m	m	mj	mj



### Tetrads natural minor scales



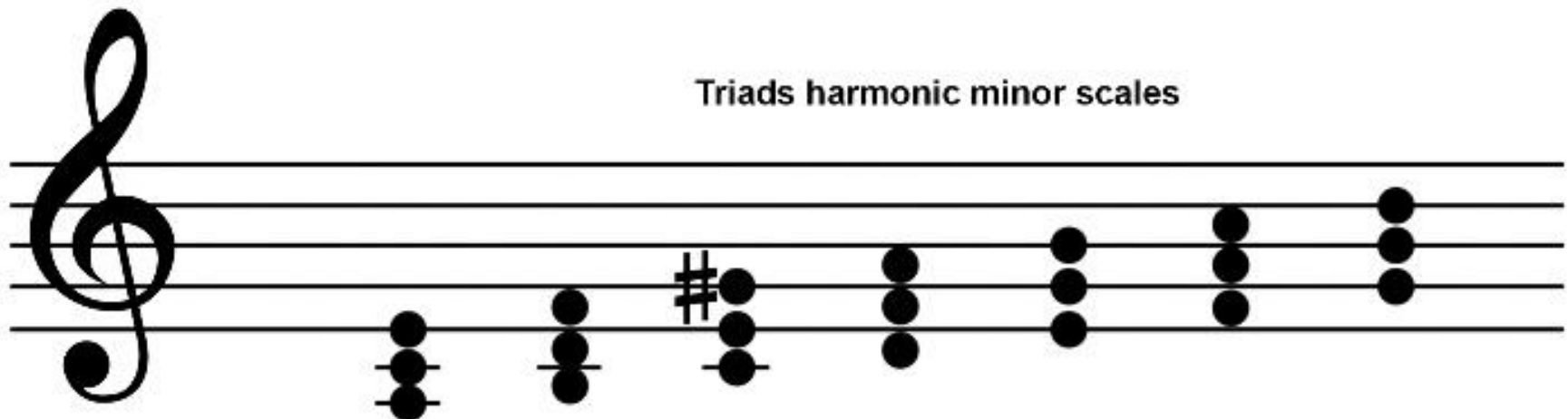
I                  II                  III                  IV                  V                  VI                  VII

**Formula**

a c e g	b d f a	c e g b	d f a c	e g b d	f a c e	g b d f
1 -3 5 -7	1 -3 -5 -7	1 3 5 7	1 -3 5 -7	1 -3 5 -7	1 3 5 7	1 3 5 -7
m7	m7-5	mj7	m7	m7	mj7	7

**Chords**

### Triads harmonic minor scales



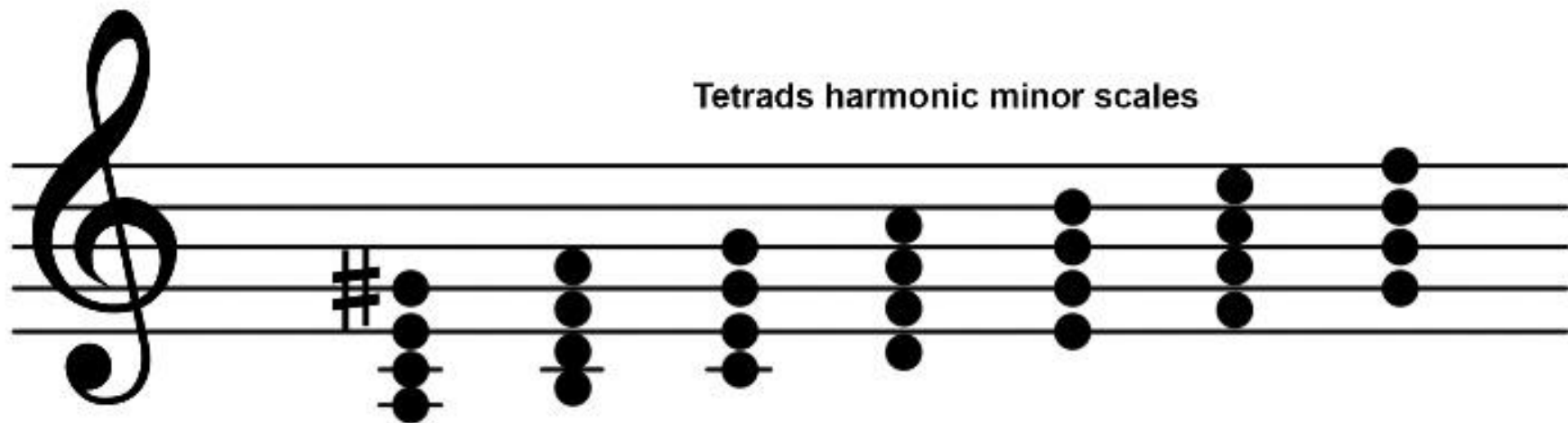
I II III IV V VI VII

a c e	b d f	c e g #	d f a	e g # b	f a c	g # b d
1 -3 5	1 -3 -5	1 3 +5	1 -3 5	1 3 5	1 3 5	1 -3 -5
m	dim	augm	m	maj	maj	dim

Formula

Chords

### Tetrads harmonic minor scales



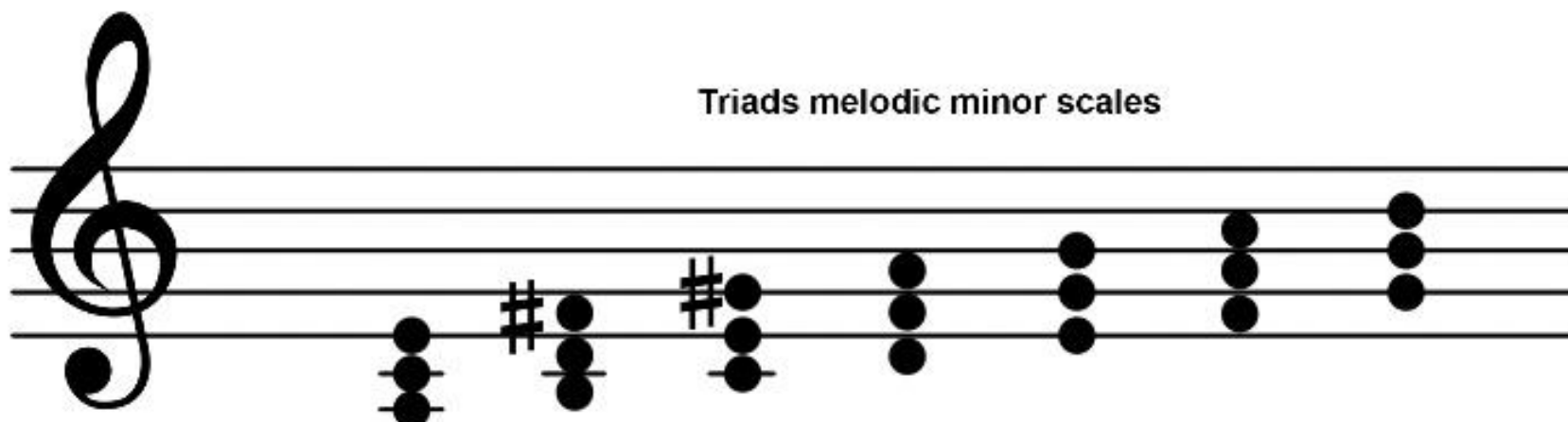
I                  II                  III                  IV                  V                  VI                  VII

a c e g#	b d f a	c e g# b	d f a c	e g# b d	f a c e	g# b d f
1 -3 5 7	1 -3 -5 -7	1 3 +5 7	1 -3 5 -7	1 3 5 -7	1 3 5 7	1 -3 -5 --7
minmj7	m7-5	mj7+5	m7	7	mj7	dim

Formula

Chords

### Triads melodic minor scales



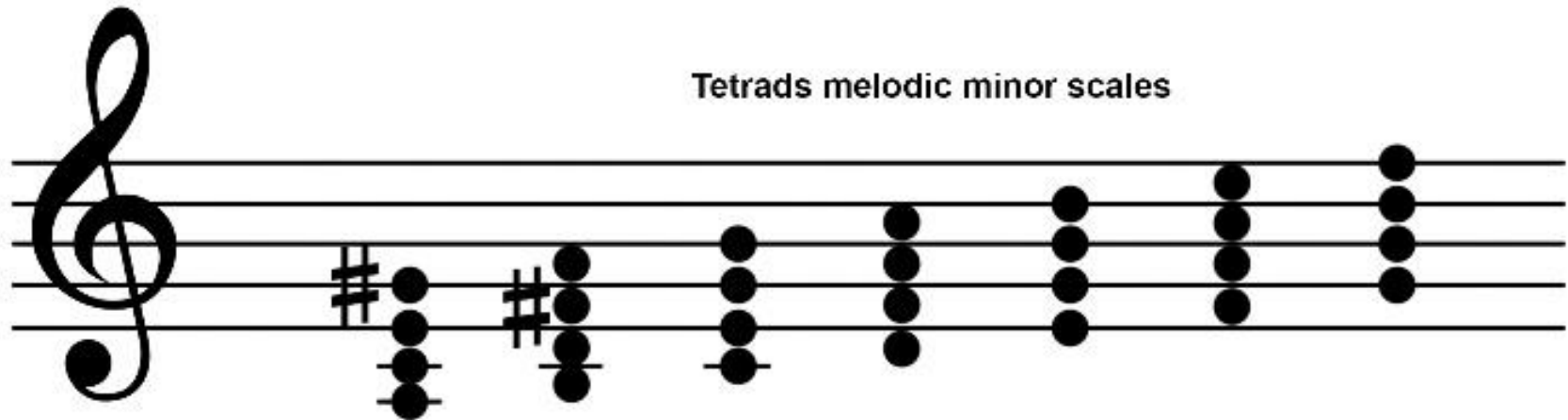
I II III IV V VI VII

a c e	b d f#	c e g#	d f# a	e g# b	f# a c	g# b d
1 -3 5	1 -3 5	1 3 +5	1 3 5	1 3 5	1 -3 -5	1 -3 -5
m	m	augm	mj	mj	dim	dim

Formula

Chords

### Tetrads melodic minor scales



I                  II                  III                  IV                  V                  VI                  VII

a c e g#	b d f# a	c e g# b	d f# a c	e g# b d	f# a c e	g# b d f#
1 -3 5 7	1 -3 5 -7	1 3 +5 7	1 3 5 -7	1 3 5 -7	1 -3 -5 -7	1 -3 -5 -7
mmj7	m7	mj7+5	7	7	m7-5	m7-5

Formula

Chords

### Summary triads

#### Scales

Scale degrees major			I	II	III	IV	V	VI	VII
Major			c	d	e	f	g	a	b
Natural minor	a	b	c	d	e	f	g		
Harmonic minor	a	b	c	d	e	f	g#		
Melodic minor	a	b	c	d	e	f#	g#		
Scale degrees minor	I	II	III	IV	V	VI	VII		

#### Chords

Scale degrees major			I	II	III	IV	V	VI	VII
Major			mj	m	m	mj	mj	m	dim
Natural minor	m	dim	mj	m	m	mj	mj		
Harmonic minor	m	dim	aug	m	mj	mj	dim		
Melodic minor	m	m	aug	mj	mj	dim	dim		
Scale degrees minor	I	II	III	IV	V	VI	VII		

### Summary tetrads

#### Scales

Scale degrees major			I	II	III	IV	V	VI	VII
Major			c	d	e	f	g	a	b
Natural minor	a	b	c	d	e	f	g		
Harmonic minor	a	b	c	d	e	f	g#		
Melodic minor	a	b	c	d	e	f#	g#		
Scale degrees minor	I	II	III	IV	V	VI	VII		

#### Chords

Scale degrees major			I	II	III	IV	V	VI	VII
Major			mj7	m7	m7	mj7	7	m7	m7-5
Natural minor	m7	m7-5	mj7	m7	m7	mj7	7		
Harmonic minor	mmj7	m7-5	mj7+5	m7	7	mj7	dim		
Melodic minor	mmj7	m7	mj7+5	7	7	m7-5	m7-5		
Scale degrees minor	I	II	III	IV	V	VI	VII		