

## Reference: Major and Minor Scales

Scale	Key Signature	Tonic	Super-tonic	Mediant	Sub-dominant	Dominant	Sub-medi-ant	Leading Tone / Subtonic	Tonic
<b>Major</b>		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>
<b>Natural Minor</b>				<b>b3</b>			<b>b6</b>	<b>b7</b>	
<b>Harmonic Minor</b>				<b>b3</b>			<b>b6</b>		
<b>Melodic Minor (ascending)</b>				<b>b3</b>					
C Major	none	C	D	E	F	G	A	B	C
C Natural Minor	B $\flat$ E $\flat$ A $\flat$	C	D	E $\flat$	F	G	A $\flat$	B $\flat$	C
C Harmonic Minor	B $\flat$ E $\flat$ A $\flat$	C	D	E $\flat$	F	G	A $\flat$	B	C
C Melodic Minor	B $\flat$ E $\flat$ A $\flat$	C	D	E $\flat$	F	G	A	B	C
G Major	F $\sharp$	G	A	B	C	D	E	F $\sharp$	G
G Natural Minor	B $\flat$ E $\flat$	G	A	B $\flat$	C	D	E $\flat$	F	G
G Harmonic Minor	B $\flat$ E $\flat$	G	A	B $\flat$	C	D	E $\flat$	F $\sharp$	G
G Melodic Minor	B $\flat$ E $\flat$	G	A	B $\flat$	C	D	E	F $\sharp$	G
D Major	F $\sharp$ C $\sharp$	D	E	F $\sharp$	G	A	B	C $\sharp$	D
D Natural Minor	B $\flat$	D	E	F	G	A	B $\flat$	C	D
D Harmonic Minor	B $\flat$	D	E	F	G	A	B $\flat$	C $\sharp$	D
D Melodic Minor	B $\flat$	D	E	F	G	A	B	C $\sharp$	D
A Major	F $\sharp$ C $\sharp$ G $\sharp$	A	B	C $\sharp$	D	E	F $\sharp$	G $\sharp$	A
A Natural Minor	none	A	B	C	D	E	F	G	A
A Harmonic Minor	none	A	B	C	D	E	F	G $\sharp$	A
A Melodic Minor	none	A	B	C	D	E	F $\sharp$	G $\sharp$	A
E Major	F $\sharp$ C $\sharp$ G $\sharp$ D $\sharp$	E	F $\sharp$	G $\sharp$	A	B	C $\sharp$	D $\sharp$	E
E Natural Minor	F $\sharp$	E	F $\sharp$	G	A	B	C	D	E
E Harmonic Minor	F $\sharp$	E	F $\sharp$	G	A	B	C	D $\sharp$	E
E Melodic Minor	F $\sharp$	E	F $\sharp$	G	A	B	C $\sharp$	D $\sharp$	E
B Major	F $\sharp$ C $\sharp$ G $\sharp$ D $\sharp$ A $\sharp$	B	C $\sharp$	D $\sharp$	E	F $\sharp$	G $\sharp$	A $\sharp$	B
B Natural Minor	F $\sharp$ C $\sharp$	B	C $\sharp$	D	E	F $\sharp$	G	A	B
B Harmonic Minor	F $\sharp$ C $\sharp$	B	C $\sharp$	D	E	F $\sharp$	G	A $\sharp$	B
B Melodic Minor	F $\sharp$ C $\sharp$	B	C $\sharp$	D	E	F $\sharp$	G $\sharp$	A $\sharp$	B
F $\sharp$ Major	F $\sharp$ C $\sharp$ G $\sharp$ D $\sharp$ A $\sharp$ E $\sharp$	F $\sharp$	G $\sharp$	A $\sharp$	B	C $\sharp$	D $\sharp$	E $\sharp$	F $\sharp$
F $\sharp$ Natural Minor	F $\sharp$ C $\sharp$ G $\sharp$	F $\sharp$	G $\sharp$	A	B	C $\sharp$	D	E	F $\sharp$
F $\sharp$ Harmonic Minor	F $\sharp$ C $\sharp$ G $\sharp$	F $\sharp$	G $\sharp$	A	B	C $\sharp$	D	E $\sharp$	F $\sharp$
F $\sharp$ Melodic Minor	F $\sharp$ C $\sharp$ G $\sharp$	F $\sharp$	G $\sharp$	A	B	C $\sharp$	D $\sharp$	E $\sharp$	F $\sharp$
C $\sharp$ Major	F $\sharp$ C $\sharp$ G $\sharp$ D $\sharp$ A $\sharp$ E $\sharp$ B $\sharp$	C $\sharp$	D $\sharp$	E $\sharp$	F $\sharp$	G $\sharp$	A $\sharp$	B $\sharp$	C $\sharp$
C $\sharp$ Natural Minor	F $\sharp$ C $\sharp$ G $\sharp$ D $\sharp$	C $\sharp$	D $\sharp$	E	F $\sharp$	G $\sharp$	A	B	C $\sharp$
C $\sharp$ Harmonic Minor	F $\sharp$ C $\sharp$ G $\sharp$ D $\sharp$	C $\sharp$	D $\sharp$	E	F $\sharp$	G $\sharp$	A	B $\sharp$	C $\sharp$
C $\sharp$ Melodic Minor	F $\sharp$ C $\sharp$ G $\sharp$ D $\sharp$	C $\sharp$	D $\sharp$	E	F $\sharp$	G $\sharp$	A $\sharp$	B $\sharp$	C $\sharp$

Leading Tone is a half step below Tonic; Subtonic is a whole step below Tonic.

Table shows Melodic Minor (ascending). Melodic Minor (descending) is identical to Natural Minor.

## Reference: Major and Minor Scales (cont.)

Scale	Key Signature	Tonic	Super-tonic	Mediant	Sub-dominant	Dominant	Sub-medi-ant	Leading Tone / Subtonic	Tonic
<b>Major</b>		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>1</b>
<b>Natural Minor</b>				<b>b3</b>			<b>b6</b>	<b>b7</b>	
<b>Harmonic Minor</b>				<b>b3</b>			<b>b6</b>		
<b>Melodic Minor (ascending)</b>				<b>b3</b>					
F Major	B $\flat$	F	G	A	B $\flat$	C	D	E	F
F Natural Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$	F	G	A $\flat$	B $\flat$	C	D $\flat$	E $\flat$	F
F Harmonic Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$	F	G	A $\flat$	B $\flat$	C	D $\flat$	E	F
F Melodic Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$	F	G	A $\flat$	B $\flat$	C	D	E	F
B $\flat$ Major	B $\flat$ E $\flat$	B $\flat$	C	D	E $\flat$	F	G	A	B $\flat$
B $\flat$ Natural Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$	B $\flat$	C	D $\flat$	E $\flat$	F	G $\flat$	A $\flat$	B $\flat$
B $\flat$ Harmonic Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$	B $\flat$	C	D $\flat$	E $\flat$	F	G $\flat$	A	B $\flat$
B $\flat$ Melodic Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$	B $\flat$	C	D $\flat$	E $\flat$	F	G	A	B $\flat$
E $\flat$ Major	B $\flat$ E $\flat$ A $\flat$	E $\flat$	F	G	A $\flat$	B $\flat$	C	D	E $\flat$
E $\flat$ Natural Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$	E $\flat$	F	G $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$	E $\flat$
E $\flat$ Harmonic Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$	E $\flat$	F	G $\flat$	A $\flat$	B $\flat$	C $\flat$	D	E $\flat$
E $\flat$ Melodic Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$	E $\flat$	F	G $\flat$	A $\flat$	B $\flat$	C	D	E $\flat$
A $\flat$ Major	B $\flat$ E $\flat$ A $\flat$ D $\flat$	A $\flat$	B $\flat$	C	D $\flat$	E $\flat$	F	G	A $\flat$
A $\flat$ Natural Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$	A $\flat$
A $\flat$ Harmonic Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$	E $\flat$	F $\flat$	G	A $\flat$
A $\flat$ Melodic Minor	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$	E $\flat$	F	G	A $\flat$
D $\flat$ Major	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$	D $\flat$	E $\flat$	F	G $\flat$	A $\flat$	B $\flat$	C	D $\flat$
D $\flat$ Natural Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$
D $\flat$ Harmonic Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$	A $\flat$	B $\flat$	C	D $\flat$
D $\flat$ Melodic Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$	A $\flat$	B $\flat$	C	D $\flat$
G $\flat$ Major	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$	E $\flat$	F	G $\flat$
G $\flat$ Natural Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$ E $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$
G $\flat$ Harmonic Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$ E $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$	E $\flat$	F	G $\flat$
G $\flat$ Melodic Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$ E $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$	D $\flat$	E $\flat$	F	G $\flat$
C $\flat$ Major	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$	C $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$
C $\flat$ Natural Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$ E $\flat$ A $\flat$	C $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$
C $\flat$ Harmonic Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$ E $\flat$ A $\flat$	C $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$
C $\flat$ Melodic Minor*	B $\flat$ E $\flat$ A $\flat$ D $\flat$ G $\flat$ C $\flat$ F $\flat$ B $\flat$ E $\flat$ A $\flat$	C $\flat$	D $\flat$	E $\flat$	F $\flat$	G $\flat$	A $\flat$	B $\flat$	C $\flat$

Leading Tone is a half step below Tonic; Subtonic is a whole step below Tonic.

Table shows Melodic Minor (ascending). Melodic Minor (descending) is identical to Natural Minor.

\* Theoretical keys requiring double-flats. Enharmonic equivalents: D $\flat$  minor = C $\sharp$  minor, G $\flat$  minor = F $\sharp$  minor, C $\flat$  minor = B minor.