

C MAJOR

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
C	D	E	F	G	A	B	C	D	E	F	G	A	B	C
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

G MAJOR

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
G	A	B	C	D	E	F [#]	G	A	B	C	D	E	F [#]	G
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

D MAJOR

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
D	E	F [#]	G	A	B	C [#]	D	E	F [#]	G	A	B	C [#]	D
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

A MAJOR

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
A	B	C [#]	D	E	F [#]	G [#]	A	B	C [#]	D	E	F [#]	G [#]	A
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

E MAJOR

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
E	F [#]	G [#]	A	B	C [#]	D [#]	E	F [#]	G [#]	A	B	C [#]	D [#]	E
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

B/C^b MAJOR

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
B	C [#]	D [#]	E	F [#]	G [#]	A [#]	B	C [#]	D [#]	E	F [#]	G [#]	A [#]	B
C ^b	D ^b	E ^b	F ^b	G ^b	A ^b	B ^b	C ^b	D ^b	E ^b	F ^b	G ^b	A ^b	B ^b	C ^b
4	3	2	1	4	3	2	1	3	2	1	4	3	2	1

F[#]/G^b MAJOR

2	3	4	1	2	3	1	2	3	4	1	2	3	1	2
F [#]	G [#]	A [#]	B	C [#]	D [#]	E [#]	F [#]	G [#]	A [#]	B	C [#]	D [#]	E [#]	F [#]
G ^b	A ^b	B ^b	C ^b	D ^b	E ^b	F	G ^b	A ^b	B ^b	C ^b	D ^b	E ^b	F	G ^b
4	3	2	1	3	2	1	4	3	2	1	3	2	1	4

C[#]/D^b MAJOR

2	3	1	2	3	4	1	2	3	1	2	3	4	1	2
C [#]	D [#]	E [#]	F [#]	G [#]	A [#]	B [#]	C [#]	D [#]	E [#]	F [#]	G [#]	A [#]	B [#]	C [#]
D ^b	E ^b	F	G ^b	A ^b	B ^b	C	D ^b	E ^b	F	G ^b	A ^b	B ^b	C	D ^b
3	2	1	4	3	2	1	3	2	1	4	3	2	1	3

A^b MAJOR

3	4	1	2	3	1	2	3	4	1	2	3	1	2	3
A ^b	B ^b	C	D ^b	E ^b	F	G	A ^b	B ^b	C	D ^b	E ^b	F	G	A ^b
3	2	1	4	3	2	1	3	2	1	4	3	2	1	3

E^b MAJOR

3	1	2	3	4	1	2	3	1	2	3	4	1	2	3
E ^b	F	G	A ^b	B ^b	C	D	E ^b	F	G	A ^b	B ^b	C	D	E ^b
3	2	1	4	3	2	1	3	2	1	4	3	2	1	3

B^b MAJOR

4	1	2	3	1	2	3	4	1	2	3	1	2	3	4
B ^b	C	D	E ^b	F	G	A	B ^b	C	D	E ^b	F	G	A	B ^b
3	2	1	4	3	2	1	3	2	1	4	3	2	1	3

F MAJOR

1	2	3	4	1	2	3	1	2	3	4	1	2	3	4
F	G	A	B ^b	C	D	E	F	G	A	B ^b	C	D	E	F
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

c minor harmonic (related to E^bM)

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
C	D	E ^b	F	G	A ^b	B	C	D	E ^b	F	G	A ^b	B	C
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

c minor melodic up

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
C	D	E ^b	F	G	A	B	C	D	E ^b	F	G	A	B	C
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

c minor melodic down

5	4	3	2	1	3	2	1	4	3	2	1	3	2	1
C	B ^b	A ^b	G	F	E ^b	D	C	B ^b	A ^b	G	F	E ^b	D	C
1	2	3	1	2	3	4	1	2	3	1	2	3	4	5

g minor harmonic (related to B^bM)

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
G	A	B ^b	C	D	E ^b	F [#]	G	A	B ^b	C	D	E ^b	F [#]	G
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

g minor melodic up

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
G	A	B ^b	C	D	E	F [#]	G	A	B ^b	C	D	E	F [#]	G
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

g minor melodic down

5	4	3	2	1	3	2	1	4	3	2	1	3	2	1
G	F	E ^b	D	C	B ^b	A	G	F	E ^b	D	C	B ^b	A	G
1	2	3	1	2	3	4	1	2	3	1	2	3	4	5

d minor harmonic (related to FM)

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
D	E	F	G	A	B ^b	C [#]	D	E	F	G	A	B ^b	C [#]	D
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

d minor melodic up

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
D	E	F	G	A	B	C [#]	D	E	F	G	A	B	C [#]	D
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

d minor melodic

5	4	3	2	1	3	2	1	4	3	2	1	3	2	1
D	C	B ^b	A	G	F	E	D	C	B ^b	A	G	F	E	D
1	2	3	1	2	3	4	1	2	3	1	2	3	4	5

a minor harmonic (related to CM)

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
A	B	C	D	E	F	G [#]	A	B	C	D	E	F	G [#]	A
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

a minor melodic up

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
A	B	C	D	E	F [#]	G [#]	A	B	C	D	E	F [#]	G [#]	A
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

a minor melodic down

5	4	3	2	1	3	2	1	4	3	2	1	3	2	1
A	G	F	E	D	C	B	A	G	F	E	D	C	B	A
1	2	3	1	2	3	4	1	2	3	1	2	3	4	5

e minor harmonic (related to GM)

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
E	F#	G	A	B	C	D#	E	F#	G	A	B	C	D#	E
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

e minor melodic up

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
E	F#	G	A	B	C#	D#	E	F#	G	A	B	C#	D#	E
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

e minor melodic down

5	4	3	2	1	3	2	1	4	3	2	1	3	2	1
E	D	C	B	A	G	F#	E	D	C	B	A	G	F#	E
1	2	3	1	2	3	4	1	2	3	1	2	3	4	5

b minor harmonic (related to DM)

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
B	C#	D	E	F#	G	A#	B	C#	D	E	F#	G	A#	B
4	3	2	1	4	3	2	1	3	2	1	4	3	2	1

b minor melodic up

1	2	3	1	2	3	4	1	2	3	1	2	3	4	5
B	C#	D	E	F#	G#	A#	B	C#	D	E	F#	G#	A#	B
4	3	2	1	4	3	2	1	3	2	1	4	3	2	1

b minor melodic down

5	4	3	2	1	3	2	1	4	3	2	1	3	2	1
B	A	G	F#	E	D	C#	B	A	G	F#	E	D	C#	B
1	2	3	4	1	2	3	1	2	3	4	1	2	3	4

f# minor harmonic (related to AM)

3	4	1	2	3	1	2	3	4	1	2	3	1	2	3
F#	G#	A	B	C#	D	E#	F#	G#	A	B	C#	D	E#	F#
4	3	2	1	3	2	1	4	3	2	1	3	2	1	4

f# minor melodic up

2	3	1	2	3	4	1	2	3	1	2	3	4	1	3
F#	G#	A	B	C#	D#	E#	F#	G#	A	B	C#	D#	E#	F#
4	3	2	1	3	2	1	4	3	2	1	3	2	1	4

f# minor melodic down

3	2	1	3	2	1	4	3	2	1	3	2	1	4	3
F#	E	D	C#	B	A	G#	F#	E	D	C#	B	A	G#	F#
4	1	2	3	1	2	3	4	1	2	3	1	2	3	4

c# minor harmonic (related to EM)

3	4	1	2	3	1	2	3	4	1	2	3	1	2	3
C#	D#	E	F#	G#	A	B#	C#	D#	E	F#	G#	A	B#	C#
3	2	1	4	3	2	1	3	2	1	4	3	2	1	3

c# minor melodic up

2	3	1	2	3	4	1	2	3	1	2	3	4	1	3
C#	D#	E	F#	G#	A#	B#	C#	D#	E	F#	G#	A#	B#	C#
3	2	1	4	3	2	1	3	2	1	4	3	2	1	3

c# minor melodic

3	2	1	3	2	1	4	3	2	1	3	2	1	4	3
C#	B	A	G#	F#	E	D#	C#	B	A	G#	F#	E	D#	C#
3	1	2	3	4	1	2	3	1	2	3	4	1	2	3

g[#]/a^b minor harmonic (related to BM/C^bM)

3	4	1	2	3	1	2	3	4	1	2	3	1	2	3
G[#]	A[#]	B	C[#]	D[#]	E	F^x	G[#]	A[#]	B	C[#]	D[#]	E	F^x	G[#]
A^b	B^b	C^b	D^b	E^b	F^b	G	A^b	B^b	C^b	D^b	E^b	F^b	G	A^b
3	2	1	4	3	2	1	3	2	1	4	3	2	1	3

g[#]/a^b minor melodic up

3	4	1	2	3	1	2	3	4	1	2	3	1	2	3
G[#]	A[#]	B	C[#]	D[#]	E[#]	F^x	G[#]	A[#]	B	C[#]	D[#]	E[#]	F^x	G[#]
A^b	B^b	C^b	D^b	E^b	F	G	A^b	B^b	C^b	D^b	E^b	F	G	A^b
3	2	1	4	3	2	1	3	2	1	4	3	2	1	3

g[#]/a^b minor melodic down

3	2	1	3	2	1	4	3	2	1	3	2	1	4	3
G[#]	F[#]	E	D[#]	C[#]	B	A[#]	G[#]	F[#]	E	D[#]	C[#]	B	A[#]	G[#]
A^b	G^b	F^b	E^b	D^b	C^b	B^b	A^b	G^b	F^b	E^b	D^b	C^b	B^b	A^b
3	4	1	2	3	1	2	3	4	1	2	3	1	2	3

d#/e^b minor harmonic (related to F#M/G^bM)

3	1	2	3	4	1	2	3	1	2	3	4	1	2	3
D#	E#	F#	G#	A#	B	C^x	D#	E#	F#	G#	A#	B	C^x	D#
E^b	F	G^b	A^b	B^b	C^b	D	E^b	F	G^b	A^b	B^b	C^b	D	E^b
2	1	4	3	2	1	3	2	1	4	3	2	1	3	2

d#/e^b minor melodic up

3	1	2	3	4	1	2	3	1	2	3	4	1	2	3
D#	E#	F#	G#	A#	B#	C^x	D#	E#	F#	G#	A#	B#	C^x	D#
E^b	F	G^b	A^b	B^b	C	D	E^b	F	G^b	A^b	B^b	C	D	E^b
2	1	4	3	2	1	3	2	1	4	3	2	1	3	2

d#/e^b minor melodic down

3	2	1	4	3	2	1	3	2	1	4	3	2	1	3
D#	C#	B	A#	G#	F#	E#	D#	C#	B	A#	G#	F#	E#	D#
E^b	D^b	C^b	B^b	A^b	G^b	F	E^b	D^b	C^b	B^b	A^b	G^b	F	E^b
2	3	1	2	3	4	1	2	3	1	2	3	4	1	2

a[#]/b^b minor harmonic (related to C[#]M/D^bM)

4	1	2	3	1	2	3	4	1	2	3	1	2	3	4
A [#]	B [#]	C [#]	D [#]	E [#]	F [#]	G ^x	A [#]	B [#]	C [#]	D [#]	E [#]	F [#]	G ^x	A [#]
B ^b	C	D ^b	E ^b	F	G ^b	A	B ^b	C	D ^b	E ^b	F	G ^b	A	B ^b
2	1	3	2	1	4	3	2	1	3	2	1	4	3	2

a[#]/b^b minor melodic up

4	1	2	3	1	2	3	4	1	2	3	1	2	3	4
A [#]	B [#]	C [#]	D [#]	E [#]	F ^x	G ^x	A [#]	B [#]	C [#]	D [#]	E [#]	F ^x	G ^x	A [#]
B ^b	C	D ^b	E ^b	F	G	A	B ^b	C	D ^b	E ^b	F	G	A	B ^b
2	1	3	2	1	4	3	2	1	3	2	1	4	3	2

a[#]/b^b minor melodic down

4	3	2	1	3	2	1	4	3	2	1	3	2	1	4
A [#]	G [#]	F [#]	E [#]	D [#]	C [#]	B [#]	A [#]	G [#]	F [#]	E [#]	D [#]	C [#]	B [#]	A [#]
B ^b	A ^b	G ^b	F	E ^b	D ^b	C	B ^b	A ^b	G ^b	F	E ^b	D ^b	C	B ^b
2	3	4	1	2	3	1	2	3	4	1	2	3	1	2

f minor harmonic (related to A^bM)

1	2	3	4	1	2	3	1	2	3	4	1	2	3	4
F	G	A ^b	B ^b	C	D ^b	E	F	G	A ^b	B ^b	C	D ^b	E	F
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

f minor melodic up

1	2	3	4	1	2	3	1	2	3	4	1	2	3	4
F	G	A ^b	B ^b	C	D	E	F	G	A ^b	B ^b	C	D	E	F
5	4	3	2	1	3	2	1	4	3	2	1	3	2	1

f minor melodic down

4	3	2	1	4	3	2	1	3	2	1	4	3	2	1
F	E ^b	D ^b	C	B ^b	A ^b	G	F	E ^b	D ^b	C	B ^b	A ^b	G	F
1	2	3	1	2	3	4	1	2	3	1	2	3	4	5