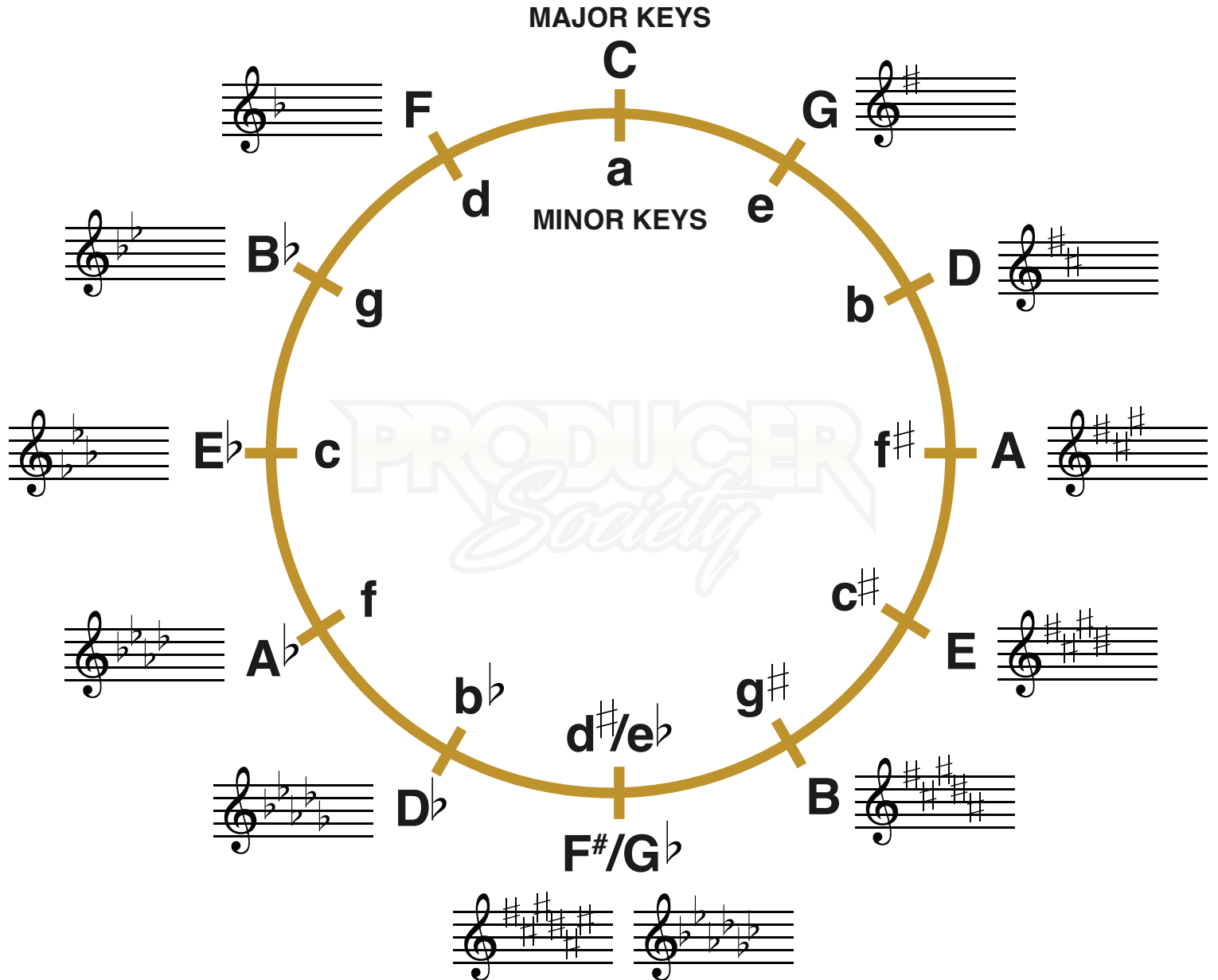


# CIRCLE OF 5THS



# INTERVAL NAMES AND SYMBOLS



| Interval Name                   | Number of Half-Steps (Frets) | Symbols |
|---------------------------------|------------------------------|---------|
| Unison                          | 0                            | Unison  |
| Minor 2nd                       | 1                            | m2      |
| Major 2nd                       | 2                            | M2      |
| Minor 3rd                       | 3                            | m3      |
| Major 3rd                       | 4                            | M3      |
| Perfect 4th                     | 5                            | P4      |
| Augmented 4th<br>Diminished 5th | 6                            | A4/d5   |
| Perfect 5th                     | 7                            | P5      |
| Minor 6th                       | 8                            | m6      |
| Major 6th                       | 9                            | M6      |
| Minor 7th                       | 10                           | m7      |
| Major 7th                       | 11                           | M7      |
| Perfect 8th                     | 12                           | P8      |

# MAJOR KEY CHORDS



| Key                  | I              | ii               | iii              | IV             | V              | vi               | vii°               |
|----------------------|----------------|------------------|------------------|----------------|----------------|------------------|--------------------|
| <b>C</b>             | C              | Dm               | Em               | F              | G              | Am               | Bdim               |
| <b>D<sub>b</sub></b> | D <sub>b</sub> | E <sub>b</sub> m | F <sub>m</sub>   | G <sub>b</sub> | A <sub>b</sub> | B <sub>b</sub> m | C <sub>dim</sub>   |
| <b>D</b>             | D              | Em               | F <sup>#</sup> m | G              | A              | B <sub>m</sub>   | C <sup>#</sup> dim |
| <b>E<sub>b</sub></b> | E <sub>b</sub> | F <sub>m</sub>   | G <sub>m</sub>   | A <sub>b</sub> | B <sub>b</sub> | C <sub>m</sub>   | D <sub>dim</sub>   |
| <b>E</b>             | E              | F <sup>#</sup> m | G <sup>#</sup> m | A              | B              | C <sup>#</sup> m | D <sup>#</sup> dim |
| <b>F</b>             | F              | G <sub>m</sub>   | A <sub>m</sub>   | B <sub>b</sub> | C              | D <sub>m</sub>   | E <sub>dim</sub>   |
| <b>F<sup>#</sup></b> | F <sup>#</sup> | G <sup>#</sup> m | A <sup>#</sup> m | B              | C <sup>#</sup> | D <sup>#</sup> m | F <sub>dim</sub>   |
| <b>G</b>             | G              | A <sub>m</sub>   | B <sub>m</sub>   | C              | D              | E <sub>m</sub>   | F <sup>#</sup> dim |
| <b>A<sub>b</sub></b> | A <sub>b</sub> | B <sub>b</sub> m | C <sub>m</sub>   | D <sub>b</sub> | E <sub>b</sub> | F <sub>m</sub>   | G <sub>dim</sub>   |
| <b>A</b>             | A              | B <sub>m</sub>   | C <sup>#</sup> m | D              | E              | F <sup>#</sup> m | G <sup>#</sup> dim |
| <b>B<sub>b</sub></b> | B <sub>b</sub> | C <sub>m</sub>   | D <sub>m</sub>   | E <sub>b</sub> | F              | G <sub>m</sub>   | A <sub>dim</sub>   |
| <b>B</b>             | B              | C <sup>#</sup> m | D <sup>#</sup> m | E              | F <sup>#</sup> | G <sup>#</sup> m | A <sup>#</sup> dim |

# MINOR KEY CHORDS



| Key       | i   | ii°   | III | iv  | v   | VI | VII |
|-----------|-----|-------|-----|-----|-----|----|-----|
| <b>C</b>  | Cm  | Ddim  | Eb  | Fm  | Gm  | Ab | Bb  |
| <b>C#</b> | C#m | D#dim | E   | F#m | G#m | A  | B   |
| <b>D</b>  | Dm  | Edim  | F   | Gm  | Am  | Bb | C   |
| <b>Eb</b> | Ebm | Fdim  | Gb  | Abm | Bbm | Cb | Db  |
| <b>E</b>  | Em  | F#dim | G   | Am  | Bm  | C  | D   |
| <b>F</b>  | Fm  | Gdim  | Ab  | Bbm | Cm  | Db | Eb  |
| <b>F#</b> | F#m | G#dim | A   | Bm  | C#m | D  | E   |
| <b>G</b>  | Gm  | Adim  | Bb  | Cm  | Dm  | Eb | F   |
| <b>G#</b> | G#m | A#dim | B   | C#m | D#m | E  | F#  |
| <b>A</b>  | Am  | Bdim  | C   | Dm  | Em  | F  | G   |
| <b>Bb</b> | Bbm | Cdim  | Db  | Ebm | Fm  | Gb | Ab  |
| <b>B</b>  | Bm  | C#dim | D   | Em  | F#m | G  | A   |

# HARMONIC MINOR KEY CHORDS



| Key                  | i                    | ii°                | III+                  | iv                | V                | VI                  | vii°  |
|----------------------|----------------------|--------------------|-----------------------|-------------------|------------------|---------------------|-------|
| <b>C</b>             | Cm(M7)               | Dm7 <sup>b5</sup>  | E <sup>b</sup> maj7#5 | Fm7               | G7               | A <sup>b</sup> maj7 | Bdim  |
| <b>C#</b>            | C#m(M7)              | D#m7 <sup>b5</sup> | Emaj7#5               | F#m7              | G#7              | Amaj7               | B#dim |
| <b>D</b>             | Dm(M7)               | Em7 <sup>b5</sup>  | Fmaj7#5               | Gm7               | A7               | B <sup>b</sup> maj7 | C#dim |
| <b>D#/Eb</b>         | E <sup>b</sup> m(M7) | Fm7 <sup>b5</sup>  | Gbmaj7#5              | Abm7              | B <sup>b</sup> 7 | Bmaj7               | Ddim  |
| <b>E</b>             | Em(M7)               | F#m7 <sup>b5</sup> | Gmaj7#5               | Am7               | B7               | Cmaj7               | D#dim |
| <b>F</b>             | Fm(M7)               | Gm7 <sup>b5</sup>  | A <sup>b</sup> maj7#5 | B <sup>b</sup> m7 | C7               | D <sup>b</sup> maj7 | Edim  |
| <b>F#</b>            | F#m(M7)              | G#m7 <sup>b5</sup> | Amaj7#5               | Bm7               | C#7              | Dmaj7               | Fdim  |
| <b>G</b>             | Gm(M7)               | Am7 <sup>b5</sup>  | B <sup>b</sup> maj7#5 | Cm7               | D7               | E <sup>b</sup> maj7 | F#dim |
| <b>G#</b>            | G#m(M7)              | A#m7 <sup>b5</sup> | Bmaj7#5               | C#m7              | D#7              | Emaj7               | Gdim  |
| <b>A</b>             | Am(M7)               | Bm7 <sup>b5</sup>  | Cmaj7#5               | Dm7               | E7               | Fmaj7               | G#dim |
| <b>B<sup>b</sup></b> | B <sup>b</sup> m(M7) | Cm7 <sup>b5</sup>  | D <sup>b</sup> maj7#5 | E <sup>b</sup> m7 | F7               | G <sup>b</sup> maj7 | Adim  |
| <b>B</b>             | Bm(M7)               | C#m7 <sup>b5</sup> | Dmaj7#5               | Em7               | F#7              | Gmaj7               | A#dim |

# MELODIC MINOR KEY CHORDS



| Key                  | i                    | ii   | III+                  | IV               | V                | vi°                 | vii°                |
|----------------------|----------------------|------|-----------------------|------------------|------------------|---------------------|---------------------|
| <b>C</b>             | Cm(M7)               | Dm7  | E <sup>b</sup> maj7#5 | F7               | G7               | Am7 <sup>b</sup> 5  | Bm7 <sup>b</sup> 5  |
| <b>C#</b>            | C#m(M7)              | D#m7 | Emaj7#5               | F#7              | G#7              | A#m7 <sup>b</sup> 5 | B#m7 <sup>b</sup> 5 |
| <b>D</b>             | Dm(M7)               | Em7  | Fmaj7#5               | G7               | A7               | Bm7 <sup>b</sup> 5  | C#m7 <sup>b</sup> 5 |
| <b>D#/Eb</b>         | E <sup>b</sup> m(M7) | Fm7  | G <sup>b</sup> maj7#5 | A <sup>b</sup> 7 | B <sup>b</sup> 7 | Cm7 <sup>b</sup> 5  | Dm7 <sup>b</sup> 5  |
| <b>E</b>             | Em(M7)               | F#m7 | Gmaj7#5               | A7               | B7               | C#m7 <sup>b</sup> 5 | D#m7 <sup>b</sup> 5 |
| <b>F</b>             | Fm(M7)               | Gm7  | A <sup>b</sup> maj7#5 | B <sup>b</sup> 7 | C7               | Dm7 <sup>b</sup> 5  | Em7 <sup>b</sup> 5  |
| <b>F#</b>            | F#m(M7)              | G#m7 | Amaj7#5               | B7               | C#7              | D#m7 <sup>b</sup> 5 | Fm7 <sup>b</sup> 5  |
| <b>G</b>             | Gm(M7)               | Am7  | B <sup>b</sup> maj7#5 | C7               | D7               | Em7 <sup>b</sup> 5  | F#m7 <sup>b</sup> 5 |
| <b>G#</b>            | G#m(M7)              | A#m7 | Bmaj7#5               | C#7              | D#7              | Fm7 <sup>b</sup> 5  | Gm7 <sup>b</sup> 5  |
| <b>A</b>             | Am(M7)               | Bm7  | C#maj7#5              | D7               | E7               | F#m7 <sup>b</sup> 5 | G#m7 <sup>b</sup> 5 |
| <b>B<sup>b</sup></b> | B <sup>b</sup> m(M7) | Cm7  | D <sup>b</sup> maj7#5 | E <sup>b</sup> 7 | F7               | Gm7 <sup>b</sup> 5  | Am7 <sup>b</sup> 5  |
| <b>B</b>             | Bm(M7)               | C#m7 | D#maj7#5              | E7               | F#7              | G#m7 <sup>b</sup> 5 | A#m7 <sup>b</sup> 5 |

# MODAL CHORDS



| The Name of the Mode | The Note of the Mayor Scale It Starts On | The Modal Chords (from most important to least) | Notes Starting on C          | Chords in C                        |
|----------------------|--|---|------------------------------|------------------------------------|
| <b>Ionian</b>        | 1st Note                                 | I, IV, V<br>ii, iii, vi<br>vii <sup>o</sup>     | C, D, E, F<br>G, A, B        | C, F, G<br>Dm, Em, Am<br>Bdim      |
| <b>Dorian</b>        | 2nd Note                                 | i, ii, v<br>VII, III, IV<br>vi <sup>o</sup>     | C, D, Eb, F<br>G, A, Bb      | Cm, Dm, Gm<br>Bb, Eb, F<br>Adim    |
| <b>Phrygian</b>      | 3rd Note                                 | i, iv, vii<br>II, III, VI<br>v <sup>o</sup>     | C, Db, Eb, F<br>G, Ab, Bb, C | Cm, Fm, Bbm<br>Db, Eb Ab<br>Gdim   |
| <b>Lydian</b>        | 4th Note                                 | I, II, V<br>iii, vi, vii<br>iv <sup>o</sup>     | C, D, E, F#<br>G, A, B       | C, D, G<br>Em, Am, Bm<br>F#dim     |
| <b>Mixolydian</b>    | 5th Note                                 | I, IV, VII<br>ii, v, vi<br>iii <sup>o</sup>     | C, D, E, F<br>G, A, Bb       | C, F, Bb<br>Dm, Gm, Am<br>Edim     |
| <b>Aeolian</b>       | 6th Note                                 | i, iv, v<br>III, VI, VII<br>ii <sup>o</sup>     | C, D, Eb, F<br>G, Ab, Bb     | Cm, Fm, Gm<br>Eb, Ab, Bb<br>Ddim   |
| <b>Locrian</b>       | 7th Note                                 | i <sup>o</sup><br>iii, iv, vii<br>II, V, VI     | C, Dd, Eb, F<br>Gb, Ab, Bb   | Cdim<br>Ebm, Bbm, Fm<br>Db, Gb, Ab |

# SCALE FORMULAS



| Major Scale             | Formula   |
|-------------------------|---|
| Ionian (Major)          | 1 - 2 - 3 - 4 - 5 - 6 - 7   |
| Dorian                  | 1 - 2 - $\flat$ 3 - 4 - 5 - 6 - $\flat$ 7                         |
| Phrygian                | 1 - $\flat$ 2 - $\flat$ 3 - 4 - 5 - $\flat$ 6 - $\flat$ 7         |
| Lydian                  | 1 - 2 - 3 - $\sharp$ 4 - 5 - 6 - 7                                |
| Mixolydian              | 1 - 2 - 3 - 4 - 5 - 6 - $\flat$ 7                                 |
| Aeolian (Natural Minor) | 1 - 2 - $\flat$ 3 - 4 - 5 - $\flat$ 6 - $\flat$ 7                 |
| Locrian                 | 1 - $\flat$ 2 - $\flat$ 3 - 4 - $\flat$ 5 - $\flat$ 6 - $\flat$ 7 |

| Harmonic Minor Scale         | Formula  |
|------------------------------|--|
| Harmonic Minor               | 1 - 2 - $\flat$ 3 - 4 - 5 - $\flat$ 6 - 7                                      |
| Locrian $\sharp$ 6           | 1 - $\flat$ 2 - $\flat$ 3 - 4 - $\flat$ 5 - 6 - $\flat$ 7                      |
| Ionian $\sharp$ 5            | 1 - 2 - 3 - 4 - $\sharp$ 5 - 6 - 7   |
| Dorian $\sharp$ 4            | 1 - 2 - $\flat$ 3 - $\sharp$ 4 - 5 - 6 - $\flat$ 7                             |
| Phrygian Dominant            | 1 - $\flat$ 2 - 3 - 4 - 5 - $\flat$ 6 - $\flat$ 7                              |
| Lydian $\sharp$ 2            | 1 - $\sharp$ 2 - 3 - $\sharp$ 4 - 5 - 6 - 7                                    |
| Super Locrian $\flat\flat$ 7 | 1 - $\flat$ 2 - $\flat$ 3 - $\flat$ 4 - $\flat$ 5 - $\flat$ 6 - $\flat\flat$ 7 |

| Melodic Minor Scale     | Formula   |
|-------------------------|---|
| Melodic Minor           | 1 - 2 - $\flat$ 3 - 4 - 5 - 6 - 7   |
| Dorian $\flat$ 2        | 1 - $\flat$ 2 - $\flat$ 3 - 4 - 5 - 6 - $\flat$ 7                         |
| Lydian Augmented        | 1 - 2 - 3 - $\sharp$ 4 - $\sharp$ 5 - 6 - 7                               |
| Lydian Dominant         | 1 - 2 - 3 - $\sharp$ 4 - 5 - 6 - $\flat$ 7                                |
| Mixolydian $\flat$ 6    | 1 - 2 - 3 - 4 - 5 - $\flat$ 6 - $\flat$ 7                                 |
| Locrian $\sharp$ 2      | 1 - 2 - $\flat$ 3 - 4 - $\flat$ 5 - $\flat$ 6 - $\flat$ 7                 |
| Super Locrian (Altered) | 1 - $\flat$ 2 - $\flat$ 3 - $\flat$ 4 - $\flat$ 5 - $\flat$ 6 - $\flat$ 7 |



# CHORD PROGRESSIONS



| Progression in Roman Numerals | Chords                                    |
|-------------------------------|---|
| I-IV-V                        | F, B $\flat$ and C                        |
| I-vi-iv-V                     | C, Am, F, G - 50s Progression             |
| I-IV-VI-IV                    | C, F, B $\flat$ , F                       |
| iii-V-ii-I                    | C $\sharp$ m, E, B and A                  |
| i-IV-V                        | F $\sharp$ m, B and C $\sharp$            |
| i-V-IV-III                    | Am, G, F, E - Andalusian Cadence          |
| I-IV-IV                       | E, A, and B                               |
| iv- $\flat$ VII $^7$ -I       | Dm, B $\flat$ 7, C - Backdoor Progression |
| I-V-VI-IV                     | D, A, B and G                             |
| I-V-VII-IV                    | A, E, G, D - Chromatic Descending         |
| VI-III-I                      | E, B and G                                |
| vi6-ii-V6-I                   | Am6, Dm, G6, C - Circle Progression       |
| V-ii7-I                       | D, Am7 and G                              |
| I-V7-IV7-IV7-I7-V7-I7-V7      | C, G7, F7, C7, G7, C7, G7                 |
| I-V-IV-vi                     | D, G, F and Am                            |
| I-IV-V-vi                     | G, C, D and Em                            |
| III-II-I-VI                   | B, A G F $\sharp$                         |
| I-V-VI-IV                     | D, A, C and G                             |
| ii-IV-I                       | Dm, F and C                               |
| VI-V-IV-I                     | D, C, B $\flat$ and F                     |
| ii-V-I                        | Dm, G, C - Common Jazz Progression        |
| I-V-IV                        | D, A and G (drop D version)               |
| I-IV-V                        | A, D and E                                |
| V-IV-I                        | D, C and G                                |
| I-IV-vi-V                     | D, G, Bm and A                            |
| I7-IV7-ii7-V                  | C7, F7, Dm7, G                            |
| I-V-vi-iii-IV                 | E, B, C $\sharp$ m, G $\sharp$ m and A    |
| I-III-IV-VII-IV               | D, F, G, C and G                          |
| I-III-IV-ii                   | D, A, G and Em                            |
| vi-I-V-IV-II                  | Em, G, D, C and A                         |
| I-II-III                      | D, E $\flat$ and F (drop D)               |
| i-V-II-VII                    | Asus2, E, B and G                         |
| vi7-ii7-V7-i7                 | Am7, Dm7, G7 and Cm7                      |
| I-V-vi-IV                     | C, G, Am, F                               |
| vi7-II7-V-I                   | F $\sharp$ m7, B7, E and A                |
| VI-v-i-VII-i                  | F, Em, Am, G and Am                       |