

# Intervals & Scales Cheat Sheet

# Intervals

| Semitone | Interval Name   | Quality                  | Example                   |
|----------|---|--------------------------|---------------------------|
| 0        | Unison  | Strong Consonant         | C & C (same pitch)        |
| 1        | Minor 2 <sup>nd</sup> (b2)  | Strong Dissonant (Dark)  | C & D $\flat$             |
| 2        | Major 2 <sup>nd</sup>   | Mild Dissonant           | C & D                     |
| 3        | Minor 3 <sup>rd</sup> (b3)  | Strong Consonant (Sad)   | C & E $\flat$             |
| 4        | Major 3 <sup>rd</sup>   | Strong Consonant (Happy) | C & E                     |
| 5        | Perfect 4 <sup>th</sup>   | Mild Dissonant           | C & F                     |
| 6        | Augmented 4 <sup>th</sup> (#4) or Diminished 5 <sup>th</sup> (b5) | Strong Dissonant (Dark)  | C & F $\sharp$ /G $\flat$ |
| 7        | Perfect 5 <sup>th</sup>   | Strong Consonant         | C & G                     |
| 8        | Minor 6 <sup>th</sup> (b6)  | Mild Dissonant (Sad)     | C & A $\flat$             |
| 9        | Major 6 <sup>th</sup>   | Mild Consonant (Happy)   | C & A                     |
| 10       | Minor 7 <sup>th</sup> (b7)  | Mild Dissonant           | C & B $\flat$             |
| 11       | Major 7 <sup>th</sup>   | Strong Dissonant         | C & B                     |
| 12       | Octave  | Strong Consonant         | C & C (+1 octave)         |

## Compound Intervals

| Semitone | Interval Name                    | Octave Equivalent         | Example                    |
|----------|----------------------------------|---------------------------|----------------------------|
| 13       | Minor 9 <sup>th</sup> (b9)       | Minor 2 <sup>nd</sup>     | C & D $\flat$ (+1 octave)  |
| 14       | Major 9 <sup>th</sup>            | Major 2 <sup>nd</sup>     | C & D (+1 octave)          |
| 15       | Augmented 9 <sup>th</sup> (#9)   | Augmented 2 <sup>nd</sup> | C & D $\sharp$ (+1 octave) |
| 17       | Perfect 11 <sup>th</sup>         | Perfect 4 <sup>th</sup>   | C & F (+1 octave)          |
| 18       | Augmented 11 <sup>th</sup> (#11) | Augmented 4 <sup>th</sup> | C & F $\sharp$ (+1 octave) |
| 20       | Minor 13 <sup>th</sup> (b13)     | Minor 6 <sup>th</sup>     | C & A $\flat$ (+1 octave)  |
| 21       | Major 13 <sup>th</sup>           | Major 6 <sup>th</sup>     | C & A (+1 octave)          |

# Basic Scales & Modes

## The Chromatic Scale

|   |       |   |       |   |   |       |   |       |   |       |   |
|---|-------|---|-------|---|---|-------|---|-------|---|-------|---|
| C | C#/D♭ | D | D#/E♭ | E | F | F#/G♭ | G | G#/A♭ | A | A#/B♭ | B |
|---|-------|---|-------|---|---|-------|---|-------|---|-------|---|

## The Major Scale

W - W - H - W - W - W - H

| 1      | 2         | 3         | 4           | 5           | 6         | 7         |
|--------|-----------|-----------|-------------|-------------|-----------|-----------|
| Unison | Major 2nd | Major 3rd | Perfect 4th | Perfect 5th | Major 6th | Major 7th |

## The Natural Minor Scale

W - H - W - W - H - W - W

| 1      | 2         | ♭3        | 4           | 5           | ♭6        | ♭7        |
|--------|-----------|-----------|-------------|-------------|-----------|-----------|
| Unison | Major 2nd | Minor 3rd | Perfect 4th | Perfect 5th | Minor 6th | Minor 7th |

## The Harmonic Minor Scale

W - H - W - W - H - W - W+H - H

| 1      | 2         | ♭3        | 4           | 5           | ♭6        | 7         |
|--------|-----------|-----------|-------------|-------------|-----------|-----------|
| Unison | Major 2nd | Minor 3rd | Perfect 4th | Perfect 5th | Minor 6th | Major 7th |

## The Melodic Minor Scale

W - H - W - W - W - W - H

| 1      | 2         | ♭3        | 4           | 5           | 6         | 7         |
|--------|-----------|-----------|-------------|-------------|-----------|-----------|
| Unison | Major 2nd | Minor 3rd | Perfect 4th | Perfect 5th | Major 6th | Major 7th |

## Modes of the Major Scale

| Mode            | Pattern       | Intervals |    |    |    |    |    |    | Quality         | Character           |
|-----------------|---------------|-----------|----|----|----|----|----|----|-----------------|---------------------|
| Ionian (I)      | W W H W W W H | 1         | 2  | 3  | 4  | 5  | 6  | 7  | Major           | Bright & Happy      |
| Dorian (ii)     | W H W W W H W | 1         | 2  | ♭3 | 4  | 5  | 6  | ♭7 | Minor w/ maj6   | Dark & Sweet        |
| Phrygian (iii)  | H W W W H W W | 1         | ♭2 | ♭3 | 4  | 5  | ♭6 | ♭7 | Minor w/ ♭2     | Dark & Exotic       |
| Lydian (IV)     | W W W H W W H | 1         | 2  | 3  | ♯4 | 5  | 6  | 7  | Major w/ ♯4     | Bright & Mysterious |
| Mixolydian (V7) | W W H W W H W | 1         | 2  | 3  | 4  | 5  | 6  | ♭7 | Major w/ ♭7     | Bright & Tense      |
| Aeolian (vi)    | W H W W H W W | 1         | 2  | ♭3 | 4  | 5  | ♭6 | ♭7 | Natural Minor   | Dark & Sad          |
| Locrian (vii°)  | H W W H W W W | 1         | ♭2 | ♭3 | 4  | ♭5 | ♭6 | ♭7 | Half Diminished | Dissonant           |

