

Ukulele Tuesdays – Evergreen Library

November 19, 2019





PLAYING MUSIC IS MORE THAN JUST MEMORIZING A BUNCH OF CHORDS ON YOUR INSTRUMENT.

That's difficult. And takes a long time.

NUMBER SYSTEMS

- Number systems are methods of transcribing music
- They can be used to show which chords to play
- They are Key agnostic, meaning you can use them to play in *any* Key
- Commonly used by recording studio musicians
- Requires some musical knowledge:
 - Knowledge of Scales (use the Circle of Fifths as a reference)
 - A solid number of memorized chord shapes
 - The ability to figure out chord shapes you don't know



A SCALE: A REVIEW

• A scale is a sequence of Intervals or, more specifically, *Scale Degrees*

C Major Scale	С	D	Е	F	G	A	B	С
G Major Scale	G	A	В	С	D	Ε	F#	G
Interval Number	1	2	3	4	5	6	7	8/1
Interval Name	Unison	Major 2 nd	Major 3 rd	Perfect 4 th	Perfect 5 th	Major 6 th	Major 7 th	Octave / Unison
Roman Numeral	I	II / ii	III / iii	IV	V	VI / vi	VII / vii	VIII / I
Scale Degree	Tonic	Super- tonic	Mediant	Sub- dominant	Dominant	Sub- mediant	Leading Tone	Tonic

INTERVALS AND SCALE DEGREES

- An Interval is simply the distance between two notes
 - Major 2nd 2 half steps
 - Perfect 5th 7 half steps
 - Major 7th 11 half steps
- A Scale Degree is the distance of a note to the root of the scale
 - It's still an interval, but more specifically defined
 - Supertonic a Major 2nd, but only from the Root of the Scale
 - *Dominant* a Perfect 5th, but only from the Root of the Scale
 - Leading Tone Major 7th, but only from the Root of the Scale



ROMAN NUMERAL SYSTEM

- Developed in the 18th century
- A nomenclature where chords are represented by Roman Numerals and other symbols
- Numerals denote a *scale degree* (distance from the root note of the key)
 - Major or minor
- Additional symbols denote chord quality
 - Augmented, diminished, additional notes (such as the 7th), chord inversions

ROMAN NUMERAL SYSTEM

Symbol	Meaning	Examples	Examples
Uppercase Roman numeral	Major chord	I	C
Lowercase Roman numeral	Minor chord	i	Cm
Superscript +	Augmented chord	I+	C+
Superscript °	Diminished chord	i°	C°
Superscript number	Added note	V ⁷	C7



THE NASHVILLE NUMBER SYSTEM

- Developed by Neal Matthews in the late 1950s
- Resembles the Roman Numeral System
- Uses 1, 2, 3, 4... instead of I, II, III, IV...
- Also uses additional symbols to denote chord quality or other modifications



REFERENCE

Chord (key of C)	Notation	Scale Degree	Interval	Roman Numeral	Nashville Number
C Major	С	Root	1	I	1
E Minor	Em	Minor 3 rd	3	iii	3m
F Major	F	Perfect 4 th	4	IV	4
G Major	G	Perfect 5 th	5	v	5
G Dominant 7th	G7	Perfect 5 th with a Minor 7 th added	5	V ⁷	57
A Minor	Am	Minor 6 th	6	vi	6m



CONVERTING CHORDS TO NUMBERS

Common Intervals	Chord in C Major	Roman Numeral	Chord in G Major
1	С	I	G
4	F	IV	С
5	G	V	D



EXAMPLE – FROM KEY OF C MAJOR

Verse 1

[C]I see a [G]bad [F]moon [C]rising [C]I see [G]trouble [F]on the [C]way [C]I see [G]earth [F]quakes and [C]lightning [C]I see [G]bad [F]times to-[C]day

Chorus

[F]Don't go around tonightWell, it's [C]bound to take your life[G]There's a [F]bad moon on the [C]rise



Verse 1

[I]I see a [V]bad [IV]moon [I]rising [I]I see [V]trouble [IV]on the [I]way [I]I see [V]earth [IV]quakes and [I]lightning [I]I see [V]bad [IV]times to- [I]day

Chorus

[IV]Don't go around tonight Well, it's [I]bound to take your life [V]There's a [IV]bad moon on the [I]rise



EXAMPLE – TO KEY OF G MAJOR

Verse 1

[I]I see a [V]bad [IV]moon [I]rising [I]I see [V]trouble [IV]on the [I]way [I]I see [V]earth [IV]quakes and [I]lightning [I]I see [V]bad [IV]times to- [I]day

Chorus

[IV]Don't go around tonight Well, it's [I]bound to take your life [V]There's a [IV]bad moon on the [I]rise

Verse 1

[G]I see a [D]bad [C]moon [G]rising [G]I see [D]trouble [C]on the [G]way [G]I see [D]earth [C]quakes and [G]lightning [G]I see [D]bad [C]times to-[G]day

Chorus

[C]Don't go around tonight Well, it's [G]bound to take your life [D]There's a [C]bad moon on the [G]rise



EXERCISE 1

Verse 1 (vocals only)

[I]If I was a flower growing [IV]wild and [I]free [I]All I'd want is you to be my [V]sweet honey [I]bee [I]If I was a tree growing [IV]tall and [I]green [I]All I'd want is you to shade me, [V]be my [I]leaves

Chorus

[I]All I want is you, will you [IV]be my [I]bride?
[I]Take me by the hand, stand [V]by my [I]side
[I]All I want is you, will you [IV]stay with [I]me?
[I]Hold me in your arms, [V]sway me like the [I]sea



EXERCISE 2

Verse 1

[I]Where have all the [vi]flowers gone [IV]Long time [V]passing [I]Where have all the [vi]flowers gone [IV]Long time a- [V]go [I]Where have all the [vi]flowers gone [IV]Girls have picked them [V]every one [IV]When will they [I]ever learn [IV]When will they [V]ever [I]learn





QUESTIONS?