# Chords Workshop 

## by Mark Fowler

Based mostly on:

- 2 straight-forward articles by David Hamburger in Acoustic

Guitar Magazine (August \& September 2003)

- http://acousticguitar.com/lessons/Chord_Names/1.html
- http://acousticguitar.com/lessons/Chord_Names2/1.html
- What Makes Music Work, a book by P. Seyer, A. Novick, \& P. Harmon
- http://www.lovemusiclovedance.com/what_makes_music_work.htm
- An amazingly simple but effective little book!!
- Chords \& Progressions for Jazz and Popular Guitar, a book by Arnie Berle
- Wikipedia Entry
- http://en.wikipedia.org/wiki/Chord_notation

Got Questions? mfowler@binghamton.edu
Get Full-Size, Full-Color Handout: http://www.ws.binghamton.edu/fowler (Click on "Other")

## What We'll Cover

- Part Ia
- What notes are in the "normal" chords?
- Part Ib
- What notes are in the "weird" chords?
- Part II
- How do you play the "weird" chords?
- Part III
- When do you use the "weird" chords?


## Part Ia

## What Notes Are In The "Normal" Chords?

## What is a Chord?

- Three or more different notes played together


## What Makes a Certain Chord?

- It depends on the "Intervals" (i.e., distance) between the notes


## What Is an Interval?

- A measure of the distance between two notes
- Interval names are based on positions in scales
- Actually, they are really based on the \# of "half steps" between the notes

> | Note: 2 notes a half step |
| :--- |
| apart are one fret apart |

## Intervals within the C Major Scale



## Intervals Between Strings On The Guitar



## Triads - Simplest Chords

## There are only 4 types of triads:

| $>\underline{\text { Major }}$ |
| :---: |
| R 3 5 |



| $>\underline{\text { Minor }}$ |
| :---: |
| $\mathrm{R}^{\text {b } 35}$ |



These constitute about $99 \%$ of the chords you see traditionally in a fiddle tune

$\begin{array}{ll}\text { C } & O \\ B & O \\ B b & O \\ A & O \\ G \# & O\end{array}$
$\begin{array}{ll}\mathrm{C} & \mathrm{O} \\ \mathrm{B} & 0 \\ \mathrm{Bb} & \mathrm{O} \\ \mathrm{A} & 0 \\ \mathrm{G} \# & \mathrm{O}\end{array}$
$\begin{array}{ll}\text { C } & O \\ \text { B } & O \\ B b & O \\ A & O \\ G \# & O\end{array}$

$>$ Augmented
R 3 \#5

c


We won't be needing these!

## Triads-Based Guitar Chords: An Example

C Major





## Triads-Based Guitar Chords: Another Example

D Major


D Minor


## Part Ib

## What Notes Are In These "Weird" Chords?

## Bigger Intervals

(shown relative to C in C major scale)


Next

## Nearly-Complete Jazz Chord "Family Tree"

For Jazz Chords: sequentially add other notes to a maj/min triad Note the main pattern: \(1 \begin{array}{r}3 <br>

b_{3}\end{array}\)| 5 | $\begin{array}{rrr}7 \\ b 7\end{array}$ | 9 | 11 |
| :---: | :---: | :---: | :---: |
| $b^{2}$ |  |  |  |



Altered Chords (e.g., A7\#5 ${ }^{\boldsymbol{b}} \mathbf{9}$ ): Raise or Lower the 5, 9, 11, or 13

## Part II

## How Do You Play These "Weird" Chords?

## An Example

## C Major



C E G C E
R 35 R 3

$C^{7}$


This now becomes "Movable"
$\mathrm{D}^{7}$


Next

A Structure-Based Approach:


Find a Root and Keep Lowering It

## Make It Movable:



More Examples of that Rule:
Find a Root and Keep Lowering It


## Another Structure-Based Rule:

Find a $5^{\text {th }}$ and Keep Raising It


Gray Circles = notes left out to make the new chords playable playable!!!

## And More:



## Another Rule: Making the dom $9^{\text {th }}$ Chord



## Part III

## How Do You Use These "Weird" Chords?

## Triads Harmonize the Scale

Choose triad type so that each chord uses only scale tones


## Typical Places to Use Jazz Chords

Recall: Number System for Chords (Example - Key of G)
I ii iii IV V vi vii
G Am Bm C D Em F\#o

| Jazzy Replacements |  |
| :--- | :--- |
| I | Maj7, Maj6 (... in blues the I is played as Dom7) |
| IV | Maj7, Maj6, (... in blues the IV is played as Dom7) |
| V | Dom7 |
| ii, iii, vi | min7 |

To see why... see next two slides...
Numbered Chords with Replacements:

| I | ii | iii | IV | V | vi | vii |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathrm{G}^{\mathrm{M} 7}$ | $\mathrm{~A}^{\mathrm{m} 7}$ | $\mathrm{~B}^{\mathrm{m} 7}$ | $\mathrm{C}^{\mathrm{M} 7}$ | $\mathrm{D}^{7}$ | $\mathrm{E}^{\mathrm{m} 7}$ | $\mathrm{FH}^{07}$ |

## Pick Extensions to Stay in Scale

Why I is either Maj7 or Maj6:


Why IV is either Maj7 or Maj6:


## Pick Extensions to Stay in Scale

Why the V chord is Dom7:


Why ii, iii \& iv chords are min7:


## vi:Em

## Golden Slippers in G: Standard Progression

Let's use our replacement rules (and a couple other jazz ideas) to spice up the chords for this tune....



$$
\stackrel{\mathrm{I}}{\stackrel{\mathrm{I}}{\mathrm{G}} / / / / / / / / \mathrm{C} / / / / / / / / \mathrm{D} / / / / / / / / / / / / / \mathrm{G} / / / \|}
$$

A good place to start is with the V chords...

## First Step: Change V to dom7

| Jazzy Replacements |  |
| :--- | :--- |
| I | Maj7, Maj6 (... in blues the I is played as Dom7) |
| IV | Maj7, Maj6, (... in blues the IV is played as Dom7) |
| V | Dom7 |
| ii, iii, vi | min7 |

## This first step doesn't make things too jazzy

## Some Jazz Dom7 Chord Forms for the V in G



A simpler form to use for now... but it just doesn't have that nice jazz texture:
$\mathrm{D}^{7}$


## Golden Slippers in G: w/ Dom $7^{\text {th }}$ on V



Could use this, for now

$\stackrel{\mathrm{I}}{\stackrel{\mathrm{I}}{\mathrm{I}} \mathrm{G} / / / / / / /|\mathrm{C} / / / / / / /|\mathrm{D} 7 / / /|/ / /|\mathrm{G} / / / / / / / /|}$


## Second Step: Change I to Maj6

| Jazzy Replacements |  |
| :--- | :--- |
| I | Maj7, Maj6 (... in blues the I is played as Dom7) |
| IV | Maj7, Maj6, (... in blues the IV is played as Dom7) |
| V | Dom7 |
| ii, iii, vi | min7 |

## Changing the I chord to Maj7 makes things very "loungy-jazzy"... not so good for fiddle tunes. <br> Changing the I chord to Maj6 makes things more "western-swingy-jazzy"

## Some Jazz Maj6 Chord Forms for the I in G



A simpler form to use for now... but it just doesn't have that nice jazz texture:


## Golden Slippers in G: w/ Maj $6^{\text {th }}$ on I




## $3^{\text {rd }}$ Step: Change IV to Maj6... with a "twist"

| Jazzy Replacements |  |
| :--- | :--- |
| I | Maj7, Maj6 (... in blues the I is played as Dom7) |
| IV | Maj7, Maj6, (... in blues the IV is played as Dom7) |
| V | Dom7 |
| ii, iii, vi | min7 |

## Changing the IV chord to Maj6 gives: $\mathrm{C}^{6}=\mathrm{C}$ E G A

But... imagine re-arranging these same notes: A E C G
Hey... that is an $\mathrm{A}^{\mathrm{m} 7}$... which is the $\mathrm{ii}^{\mathrm{m} 7}$ of $\mathrm{G}!!!$

## Can substitute ii $^{\text {m }}{ }^{7}$ for IV $^{\text {maj6 }}!$ !!

## Some Jazz min7 Chord Forms for the ii in G



A simpler form to use for now... but it just doesn't have that nice jazz texture:


## Golden Slippers in G: w/ ii min7 ${ }^{\text {th }}$ sub for IV





## $4^{\text {th }}$ Step: Insert Passing Chords

For now lets forget that we substituted $\mathrm{ii}^{\mathrm{m} 7}$ for $\mathrm{IV}^{6}$
Notice how in the B part we have IV = C going up to V = D:



A cool thing would be to go chromatically up through C\#!! But what chord type??!!

## Dim7 Chord Forms

So... let's take a C7 chord and move the root up to a C\# but leave everything else the same... that gives us a "passing chord" that provides some chromatic motion:


C\#o7


C E B ${ }^{b}$ C
R $3^{b 7}$ R


Cool Things about Dim7 Chords

1. Root can be taken as ANY note in the chord.
2. Shift it three frets and you get the same chord again!!!

## Golden Slippers in G: w/ dim7 passing chords

## Example \#1





$$
\begin{aligned}
& \begin{array}{llll}
\text { I } & \text { IV } \mathrm{IV}^{\# 0} & \mathrm{~V} & \mathrm{I}
\end{array}
\end{aligned}
$$

## 4 ${ }^{\text {th }}$ Step Revisited: Insert Passing Chords

But... we substituted ii ${ }^{77}$ for IV $^{6}$... So our B part looks like this:


A cool thing would be to go chromatically up through G\#!! But what chord type??!!

G\#07

$\mathrm{G}^{7}$


G\#07


## Golden Slippers in G: w/ dim7 passing chords



## Example \#2

A Part: $\left|\mathrm{G}^{\mathrm{I}} / / /\left|/ / / /\left|/ / / /\left|\mathrm{D}_{\mathrm{D}}^{\mathrm{V}} / / / /\left|/ / / /\left|/ / / /\left|\frac{\mathrm{I}}{\mathrm{G}} 6 / / /\right|\right.\right.\right.\right.\right.\right.$


## $5^{\text {th }}$ Step: Further Jazzify the Chords

Our first step didn't make things too jazzy We made the V chords dom7...

| Jazzy Replacements |  |
| :--- | :--- |
| I | Maj7, Maj6 (... in blues the I is played as Dom7) |
| IV | Maj7, Maj6, (... in blues the IV is played as Dom7) |
| V | Dom7 |
| ii, iii, vi | min7 |

Now... to make things even jazzier... use jazzy extensions: add in the 9
(\& maybe 11, 13)

## A Jazz Dom9 Chord Forms for V in G



A simpler form to use for now... but it just doesn't have that jazz texture:


## Golden Slippers in G: w/ Dom 9 ${ }^{\text {th }}$ on V



A Part: | G6 / / / / / / / / / / / / | D9 / / / / / / / / / / / / | G6 / / / |




Golden Slippers: "Complete" $G^{6}$


A Part: | G ( / / / / / / / / / / / / / V D 9 / / / / / / / / / / / / / | G G / / / |
The ii - V - I progression shows up all over in Jazz!!!


## "For Now" Forms

$G^{6}$

$\mathbf{G}^{\# 0}$

$\mathrm{I}^{{ }^{\oplus 7}} \quad \mathrm{ii}^{7}$


V
B Part:| G6 / / / | / / G7 / |Am7 / / / | / / / / D D9 / / / | / / / / G6 / / / | / / / / |


## Golden Slippers: "Complete" "To Work On" Forms



The ii - V - I progression shows up all over in Jazz!!!




