Rachael Carlson

Typesetting

Finger-Style

Guitar:

An Exploration and Attempt at Codification of Typesetting Techniques For Finger-Style Guitar

rachaelcarlson.com

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For John Stropes, Joshua Lane, and Meghan Carlson, without whom I wouldn't.

Introduction

This document owes much to the work of John Stropes and Joshua Lane at the University of Wisconsin-Milwaukee. Depending on one's view, this document could be considered lovingly stolen from the stylesheet used by John Stropes at Stropes Editions, Ltd. This work was inspired by the class Transcription and Typesetting for finger-style guitar at the University of Wisconsin-Milwaukee in the Spring of 2017.

The purpose of this document is to generate consistency in the production of finger-style guitar scores. I offer it freely to all who are interested. If you feel motivated to contribute in any way, please feel free to email me your questions, comments, and concerns. This offering is done solely based upon my desire to see the transcription and typesetting of finger-style guitar music rise above the mundane and become a thing of beauty, clarity, and conviction. I believe that this can be achieved through special attention to detail. For instance, a quarter of a point can make the difference between the annotation of a 'p' clarifying or obfuscating the will of the typesetter.

Part I

Finale

CHAPTER

Starting a New Document

Before beginning a new Finale document one must ensure that all elements of the composition are known. These elements include but are not limited to its form, key signature, time signatures, desired staff for standard notation, etc. Knowing these elements will ensure that the preparation of the new document will keep bugs away later on. Changing these elements after having started the document can introduce bugs which will either greatly hinder the development of the document or make it impossible to continue.

Initial Steps

The first several steps for creating a new document can seem tedious. At this point it seems that there is a possibility to create a template for each desired document layout. After creating a new document from a template one would then load a Finale Library in order to ensure consistency across multiple documents.

Begin by starting a New Document. This New Document will be a Default Document as opposed to a document created through the Setup Wizard. This new document will be have around 32 measures of a treble clef with a time signature of 4/4 and a key signature of C major. In the Windows 10 version of Finale these will need to be deleted in order for the page margins to properly update.

Next, change the margins. Changing the margins of the document at this early stage will help to ensure that the number of measures per system will be appropriate. Changing the number of measures per system after annotations such as left-hand duration have been started can result in hours of more work to correct such a small oversight.

In Finale for MacOS select the Page Layout Tool. From the menu bar, open the Page Layout Tool, go to Page Margins and Edit Page Margins. For the top and bottom of the page, we will use 36pt. For the left and right of the page, we will use 54pt. Ensure that All Pages is selected within the Change parameter. Select Apply to Parts/Score and select Score and Parts.

In Windows 10 there is a bug which seems to make it impossible to change the

page margins in the same manner explained above.¹ The workaround is to go to *Document* in the menu. Within this menu go to *Page Format* then *score*. Under the Page Margins section select 36pt for Top and Bottom and 54pt for Left and Right. Perhaps a related bug requires several more steps in order to update the page layout. Go to Page Layout. Click on the *Update Page Layout Tool*. Then delete the existing default measures. This should update the page layout.

1.2 Score Manager

$Window \rightarrow Score Manager$

- Instrument List
 - 1. Standard Notation
 - a) Change clef for blank staff to desired clef
 - b) Add additional standard notation clefs as needed and change clef
 - 2. Tablature
 - a) Add Instrument \rightarrow Tablature \rightarrow Guitar [TAB with Stems]
 - b) Change clef to serif 'TAB'
 - c) Notation Style \rightarrow Tablature \rightarrow Settings
 - i. Change the tuning
 - A. Edit Instruments
 - B. Change pitches of each string to document tuning
 - These will be MIDI note pitches
 - $C_4 = 60$
 - ii. Default Lowest Fret = o
 - iii. Capo Position = o
 - iv. Options
 - A. Show Tuplets checked
 - B. Show Clef Only On First Measure unchecked
 - v. Fret Numbers
 - A. Vertical Offset = -4
 - B. Appearance
 - Use Letters unchecked
 - Break Tablature Lines at Numbers checked
- File Info
 - 1. Add all pertinent information in each of the respective sections

¹Bug noted as of April, 2018.

1.3 Measures

- 1. Edit \rightarrow Add Measures
- 2. Add the total number of measures for the document
 - If the document has multiple movements add the total number for all movements

1.4 Time and Key Signatures

- 1. Change the time signature for the document
 - If the document has multiple changes in time signature, add all of these changes in the appropriate measures

CHAPTER 2

Document Settings

These are the settings which are configurable through the document settings dialog.

2.1 TAB Clef

Edit default TAB clef in Clef Designer (nudge 'A' and 'B' down) Font: TeXGyreSchola, Bold, 10pt

2.2 Line Weights

2.3 Ties

Placement: Over/Inner	Horizontal:	Start: -1pt	Ena: 1
Placement: Over/inner	Vertical:	Start: 3	End: 3

Placement: Under/Inner	Horizontal:	Start: 9.5	End: -9.5
	Vertical:	Start -3	End: -3

Line	Weight
Barlines	5 EVPU
Ledger Lines	4.6 EVPU
Left Half Ledger Line Length	7 EVPU
Right Half Ledger Line Length	7 EVPU
Stems	2.2 EVPU
Crescendos	4.2 EVPU

Table 2.1: Line Weights in EVPU

2.4 Tablature Slides

Smart Shape Tool

Smart Shape Placement Tab Slide Same V, Lines, Pitch Increasing

 $\begin{array}{cccc} \text{Start Point:} & \text{H: 1.5pt} & \text{End Point:} & \text{H: } -1.5 \\ & \text{V: 4} & \text{V: } -5.5 \end{array}$

2.5 Page Layout

Margins

Left, Right: 54pt Top, Bottom: 36pt

Text

3.1 Title

Font: Avenir Next Heavy, 28pt1

1 only

Horizontal: Center, opt Vertical: Top (Header), o Position From: Page Margin

Position from Edge of Frame: checked

3.2 Subtitle

Font: Avenir Next, Regular, 8pt

1 only

Centered, Top, Page Margin; H: o, V: -32pt Position from edge of frame: **checked**

3.3 Tuning

Font: Pitches, TeXGyreSchola, Regular, 10pt

Octave designations: TeXGyreSchola, Regular, 6pt

Baseline shift: -1

Accidentals: TeXGyreSchola, Regular, 8pt

Superscript: 2

¹A bug in Finale 25 on Windows 10 makes it so that you have to type in the name of the font exactly in order for the font to appear on screen. To embed the font for print you have to Print to PDF. To do so, in the print dialog, choose the Microsoft Print to PDF printer.

Frame Attributes Text box, page 1 only

Horizontal: Left, 1 Vertical: Top (Header), -36

Position from edge of frame: checked

3.4 Composer

Font: TeXGyreSchola, Regular, 10pt

Frame Attributes Inserted preset text box (editable through Score Manager), page

1 only

Horizontal: Right; -1pt

Vertical: Top (Header), -36 (align with tuning); Arranger -49

Position from: Page Margin

Position from edge of frame: checked

3.5 Copyright

Font: TGS, Regular, 8pt (This is a modified version of TeXGyreSchola with Old Style numerals)

Frame Attributes Inserted preset text box (editable through Score Manager), page

1 only

Horizontal: Centered, o Vertical: Bottom (Footer), -2.25 Position from: Page Margin

Position from edge of frame: checked

Justification: Center

3.6 Page Number

Font: TGS, Regular, 8pt

Frame Attributes Inserted preset text boxes: [Title] [File Date] [Page Number]/[Total

Pages]

Attach to: All Pages Horizontal: Right, o

Vertical: Bottom (Footer), -2.25 Position From: Page Margin

Position from edge of frame: checked

3.7 Timecodes

Font: Avenir Next, Regular, 8pt

Frame Attributes Text box, Measure attached (standard notation)

H: o V: 48

Position from edge of frame: checked

Text Expressions

4.1 Tempo

Justification: Left

Horizontal Alignment: Start of Time Signature, o Vertical Alignment: Staff Reference Line, 36

4.2 Time Signatures

Font: Maestro, bold, 44pt

Justification: Left

Horizontal Alignment: Start of Time Signature, o Vertical Alignment: Staff Reference Line, -22.75

4.3 Movements

Font: TeXGyreSchola, Italic, 9pt Edit Measure Number Regions

One Standard notation staff: Left, Left; H: 1.5, V: -66

Grand staff: V: -142

Show on: Top Staff, **checked**; Exclude Other Staves, **checked**; Bottom Staff, **unchecked**

Special Tools

5.1 Beam Angle

Eighth note stems: -12 Sixteenth note stems: -12 Beamed eight notes: -8

5.2 Stem Length

Quarter note stems: -12pt

Resize Tool

6.1 Resize System

Standard Notation: 85%1

Tablature: 90%

¹Click on staff to ensure that you are adjusting the whole staff and not a note.

Fingerings

7.1 Left-Hand Fingers (Above Staff)

Font: TeXGyreSchola, 8pt, courtesy: 7pt

Enclosure Shape: Circle Line Thickness: 0.44922 Height: 10; *courtesy: 9.75* Width: 10; *courtesy: 9.75*

Center H: 0 V: -0.25

Match Height and Width Fixed enclosure size: **checked**

Justification: Center

Horizontal: Stem, 2.75; courtesy: After Clef/Key/Time/Repeat (2.75)

Vertical: Staff Reference Line;

First: 12.75pt; Second: 23.75pt; Third: 34.75; Fourth: 45.75

7.2 Left-Hand Duration Lines

When terminated in the same system as its inception, use the *Bracket Tool*. When terminated in a different system than its inception, use the *Line Tool* and make it horizontal.

Elevated Duration Line Line Style: Solid; Horizontal, true

Thickness: 0.46094

End Point Style for elevating duration line one level:

Start: End: Hook, -6.5pt Hook, -3pt

End Point Style for elevating duration line two levels:

Start: End: Hook, -17pt Hook, -3pt Courtesy Parenthesis Font: TeXGyreSchola, Regular, 10pt

(): Three spaces in between each parenthesis

Justification: Center

Horizontal Alignment Point: After Clef/Key/Time/Repeat: 2.75pt

Vertical Alignment Point: Staff Reference Line: First, 12pt; Second, 23pt; Third, 34pt; Fourth, 45pt

7.3 Left-Hand Fingerings (Below Staff)

Fourth String Justification: Center Horizontal Alignment: Stem, 2.75pt

Vertical Alignment: Staff Reference Line, -17.5pt (quarter), -16.5pt (eighth)

Fifth String Justification: Center Horizontal Alignment: Stem, 2.75pt

Vertical Alignment: Staff Reference Line, -26.5pt (quarter), -25.5pt (eighth)

Sixth String Justification: Center Horizontal Alignment: 2.75pt

Vertical Alignment: Below Staff Baseline or Entry, -35 (quarter), -34 (eighth)

Additional Offsets Additional Entry Offset:

First, -13.75pt; Second, -24.75pt; Third, -35.75pt; Fourth, -46.75pt

7.4 Parentheses

Note: this is for surrounding a tablature notehead with a parenthesis. This is used when a finger of the left hand is placed on a fret but the right hand does not play the string.

Font: Avenir Next, Regular, 10pt

()-three spaces between for single-digit tablature, four spaces for double-digit tablature $\,$

Justification: Center Horizontal: Stem, 3pt

Vertical: Staff Reference Line

First, -2.5pt; Second, -11.5pt; Third, -20.5pt; Fourth, -29.5pt; Fifth, -38.5pt; Sixth, -47.5pt

7.5 Right-Hand Fingerings

Font: TeXGyreSchola, Regular, 8pt

Positioning: I, M, A Justification: Center

Horizontal Alignment: Stem, -5; two-digit numbers -7

String	Reference	Alignment
First	Staff Reference Line	2.25
Second	Staff Reference Line	-7.25
Third	Staff Reference Line	-16.5
Fourth	Staff Reference Line	-25.25

Table 7.1: Vertical Alignment of i, m, a

Positioning: P Justification: Center Horizontal Alignment: Stem, -3.75pt

String	Alignment
First	Staff Reference Line, -6.5
Second	Staff Reference Line, -16.5
Third	Staff Reference Line, -24.25; strum, -33
Fourth	Staff Reference Line, -32.75; strum, -41.75
Fifth	Staff Reference Line, -41.75; strum, -50.75
Sixth	Staff Reference Line, -50.5; strum, -55.75

Table 7.2: Vertical Alignment of p

7.6 Muted Notes

Enclosure Shape: Circle Line Thickness: 0.08984

Height: 8.5 Width: 8.5 Center H: 0 V: 0.25

Match Height and Width Fixed enclosure size: **checked**

Staff Attributes

Notehead font: Avenir Next Medium, 12pt

8.1 Stems

Always down Horizontal Stem Offsets: 0, 0 Use vertical offset for notehead end of stems: **checked** Offset from noteheads: Up, 6.25pt, Down, -6.25pt Use Vertical offset for beam end of stems (offset from staff) **unchecked**

CHAPTER 9

Harmonics

Enter the number for the harmonic node Special Tools > Note Shape Tool

9.1 Notehead Settings

Positioning Horizontal: 0 Vertical: 1 Allow vertical positioning: checked

Font Use default notehead font **unchecked** Zeal 9 plain

Surrounding '<' and '>' are separate expressions Font: Zeal 9 plain

<:

Justification: Center Horizontal Alignment Point: Stem Additional Horizontal Offset: -2.75

>:

Justification: Center

Horizontal Alignment Point: Stem Additional Horizontal Offset: 9

String	Alignment		
First	-3pt		
Second	-12		
Third	-21		
Fourth	-30		
Fifth	-39		
Sixth	-48		

Table 9.1: Vertical Alignment of < and >

Part II

LilyPond

Brief Introduction to LilyPond

LilyPond¹ is a free and open-source music typesetting program. As it pertains to the typesetting of finger-style guitar, LilyPond offers a great deal to those with patience. I personally found my way to LilyPond after a thorough search of the free and low-cost music typesetting programs. Soon after my preliminary experiments with LilyPond it became apparent to me that this program could reproduce, with a great deal of accuracy, the transcriptions produced by Stropes Editions, Ltd.² LilyPond describes itself as a

music engraving program, devoted to producing the highest-quality sheet music possible. It brings the aesthetics of traditionally engraved music to computer printouts. LilyPond is free software and part of the GNU Project.3

I find several components of this compelling. First, and truly most important, is that the program and those dedicated few who contribute to its development are interested in producing the best quality engravings. Once one dives deep into this program it is easy to perceive this devotion. Secondly is that the program is free and cross-platform. On a more personal level, I enjoy that I am able to use my favorite text editor, Emacs, to create sheet music.

LilyPond can be a daunting program when first encountered due to its steep learning curve.

I would highly encourage anyone interested to read LilyPond's introduction.

¹lilypond.org

²stropes.com

³LilyPond... Music Notation for Everyone. http://lilypond.org/Accessed May 25, 2018.

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