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Title

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Linear Musical Notation on a Composite Staff – Graph With Linear Patterns That Allow Intuitive Instant Recognition of Pitch and Timing

This New Musical Notation System possesses choreographic qualities. Choreographic because of linear pattern movement and pattern relationships

Mission: To Provide Near Instantaneous Intuitive Recognition of Pitch and Timing When Reading a Musical Score

Method: Superimpose a graph on traditional musical staff

Creating a **Composite Musical Staff and Graph**

Pitch is Represented by a Line instead of a Symbol

Create linear visual patterns using typical graphic techniques and color

Pitch indicated by location on traditional staff and color for flats and sharps

Duration is indicated by the pitch's length of its line as shown in the graph

Timing is depicted precisely by the lines of the graphic part of the composite

A blue line to indicate that a pitch is flat

A red line to show that a pitch is sharp

A black to indicate a pitch is neutral

Provide musical representation with notation that is instantly recognized

Instinctive...Integrated... Unified... Understood in a glance

Graphically Assists... Counting... Rhythm... Beats

Assists... reading... learning... playing... sight reading... creativity

Seeing patterns and repeated patterns of organization

Seeing the big picture... The entire composition

Seeing how the composition works especially harmonic progressions

Seeing possible chord substitutions especially for small hands

For whom

The novice deterred by memorizing obscure symbols and boring rote

The advanced musician dealing with complex compositions and timing

Secondary Considerations

See ...enjoy... music as graphic art

See...the aesthetic beauty of the composition

See...the complex more simply

Allow the deaf to appreciate music in a visual dimension

Works because

Half of the brain is visual... evolved to instantly recognize patterns

Sophisticated...at a glance... to interpret, integrate and unify action

Pattern recognition evolved over millions of years... vital for survival

Choreographic sensitivity to pattern movement is critical

Graphic methods utilize this inborn, naturally developed, system

Example...Scale below represents graphic spaces and duration

Scale ...for one measure with time signature 4/4 for horizontal linear note

I _ I _ I _ I _ I

I _ I = 1/4 note duration

I _ _ I = 1/2 note duration

I _ _ _ I = 3/4 note duration

I _ _ _ _ I = whole note duration

Use logical subdivisions for smaller note durations

Note duration is obvious with superimposed graph

Note timing is obvious by appropriate placement on superimposed graph

Note pitch is obvious by traditional placement on musical staff

I _ I Natural 1/4 note black... if flat colored blue... if sharp colored red

Variations in the shape of the horizontal line may be used to indicate quality

Legato...a wavy horizontal line

Staccato...an abbreviated horizontal line

Crescendo... Various degrees of angulation of horizontal note

Decrescendo... Varying degrees of angulation of horizontal note

Accents may be indicated by the thickness of the line

Notes played with the left hand by a dot touching below the note

Seen sequentially the mind perceives visually dancing notes

As the notes move through the traditional musical staff

Any rapid presentation of the measures in sequence will display the dance

Thus... a delightful choreography of notes may be visually appreciated

Attachment # 1 demonstrates:

Linear Choreographic Notation of Musical Notes on Composite Staff Graph
applied to Clair de Lune with a 9/8 time signature and D major flatted notes

12

Handwritten musical notation on a 12-line staff. The notation includes several vertical lines with dots at the ends, some horizontal lines, and a diagonal line with a '2' written next to it. The staff is divided into two sections by a vertical line.

Handwritten musical notation, possibly a clef or a note.

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Handwritten musical notation, possibly a clef or a note.

Includes anything with a linear pattern in the staff to identify the note

A line of dots, numbers, arrows, a line of letters for beginners etc...

Attractive pattern attracts interest & curiosity

All ages especially important to the young

Doesn't frighten newcomer away...Love early success

Not distracted by... obscure symbols ...clutter...confusion

Key not critical...not an obstacle

Practical...Lends itself to electronic eye reproduction & Production

Consistent...Special relations logical...spatially correct

Each measure the same size... Uniform measures throughout the piece

Logical placement allows treble clef and bass clef closer proximity

Consistent logical space between Bass and Treble Staves

Allows middle C to be in the middle, equidistant between staves

Format like literary phrases...poetic arrangement obvious, see poetic rhythm

See the timing...timing minimized or eliminated as a problem

Able to have a sense of timing... not apparent with symbols

Spaces and lines on traditional staff are traditional for pitch

Encourage easy recognition of staff learning

Encourage rapid eye sight reading

Remember what it looks like...not memorize notes...symbols

Instead of unpleasant discipline to force memorizing of notes

Brain designed to remember patterns... Gestalt...actually see overall pattern

Composing...Complex timing clear ...Rapid notation facilitated

With the melody above & the chord below can see how they work together

Logical proximity see syncopation, partial shared chords, asynchrony, etc...

Has sense of rhythm, motion, space & timing not apparent with symbols

Braille for the blind...Dancing fingers for the deaf

May substitute other colors especially for colorblindness

Can orient measures at 90 degrees to orient left and right hands

To read measures from the top going down towards the bottom

No symbol required for empty space notations of rests

Eliminates cluttering, line grouping for the eye, of adjacent symbolic notes

Allows left and right treble staves combined into single treble staff

Maple Leaf Rag ...Scott Joplin...Public Domain

Demonstrates and Offers Examples of:

Notes Identified by Its Position on Graph Space or Line on Traditional Staff

Flat Notes are Notes Colored in Blue

Natural Notes are Colored in Black

Sharp Notes are Colored in Red... There are no sharp notes indicated here

1/8 Notes Identified by Occupying 1 Space on the Graph

1/4 Notes Identified by Occupying 2 Parallel Spaces on the Graph

3/8 Notes Identified by Occupying 3 Parallel Spaces on the Graph

4/4 Notes Identified by Occupying 4 Parallel Spaces on the Graph

Etc...

Orange is an excellent color to use to draw the traditional Staff

Any color acceptable when there is no conflict with the note's color

Grey is acceptable for the staff since black natural notes are discernable

Black may be used if black notes discernable via a variety of publishing techniques... outlined in white, differences in width or density, etc...

Vertically colored lines are colored devices to distinguish & indicate:

To distinguish notes belonging to different staves

Oriented to the treble staff versus the bass staff

Oriented to the right hand versus the left hand

Especially if notes of two treble staves combine on single treble staff

Especially if notes, chords or portions played simultaneously

Stepwise ascending and descending patterns may use diagonal lines

The color choice for orienting lines is arbitrary

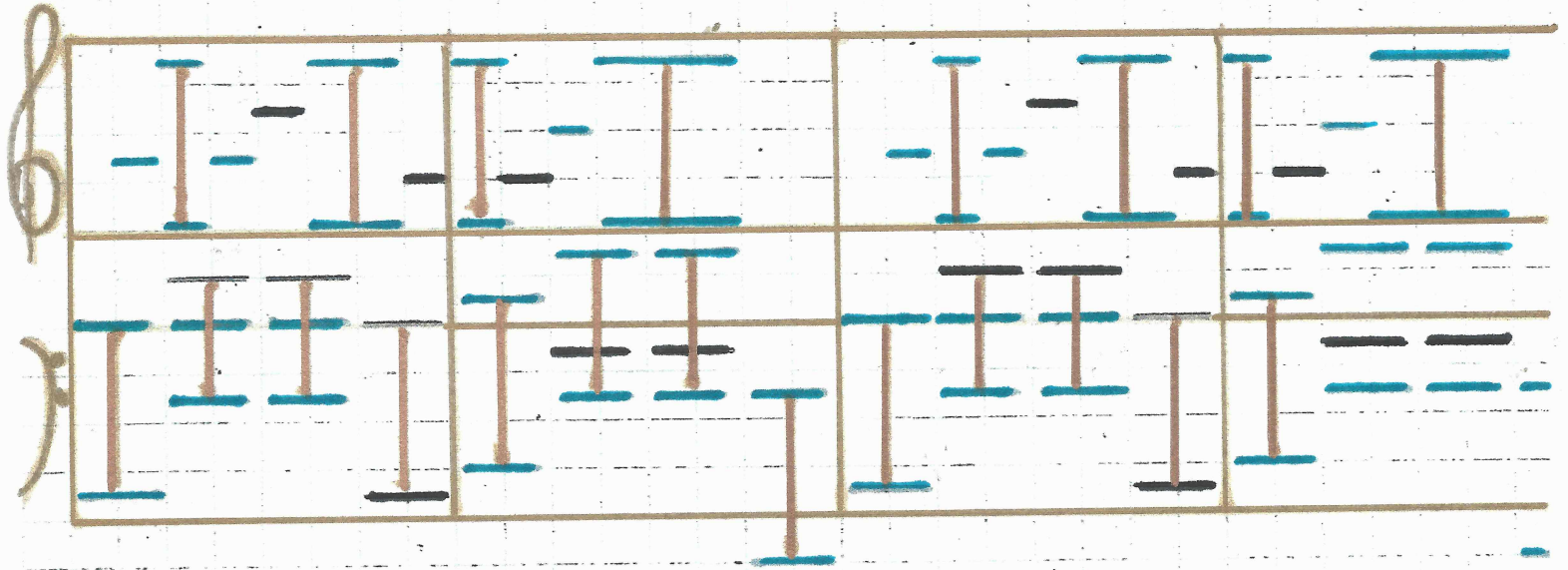
Yellow or orange are good choices for vertical or diagonal orienting lines

An arbitrary choice is available using no linear orienting devices

Attachment # 1 Notation with Vertical & Diagonal Lines for Orientation

Attachment # 2 Notation with No Vertical Lines to Assist Orientation

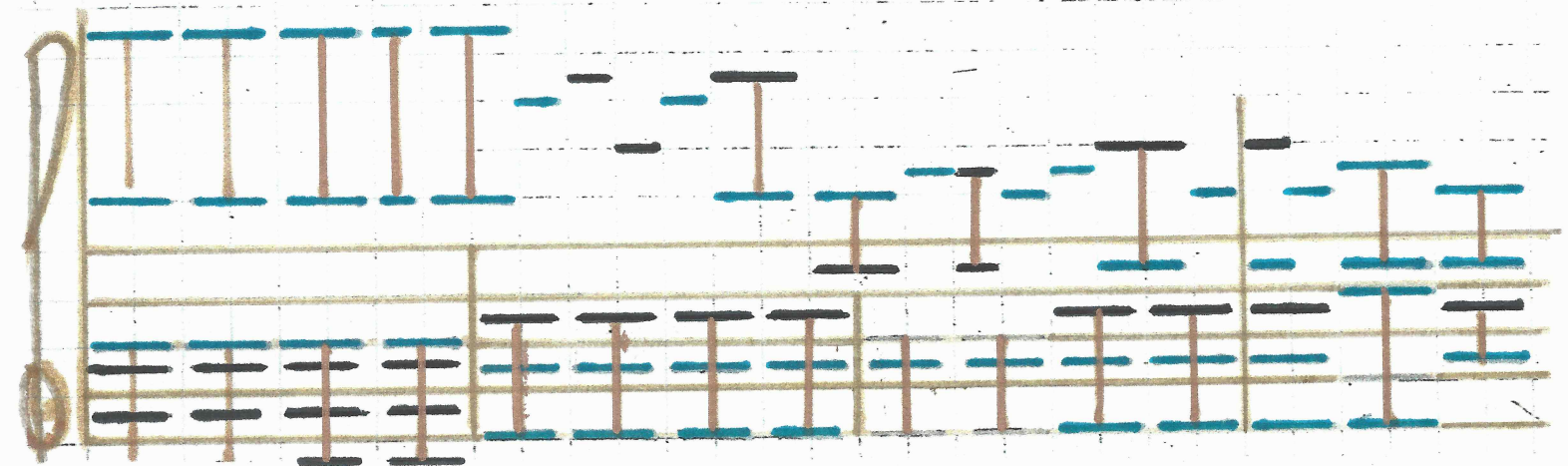
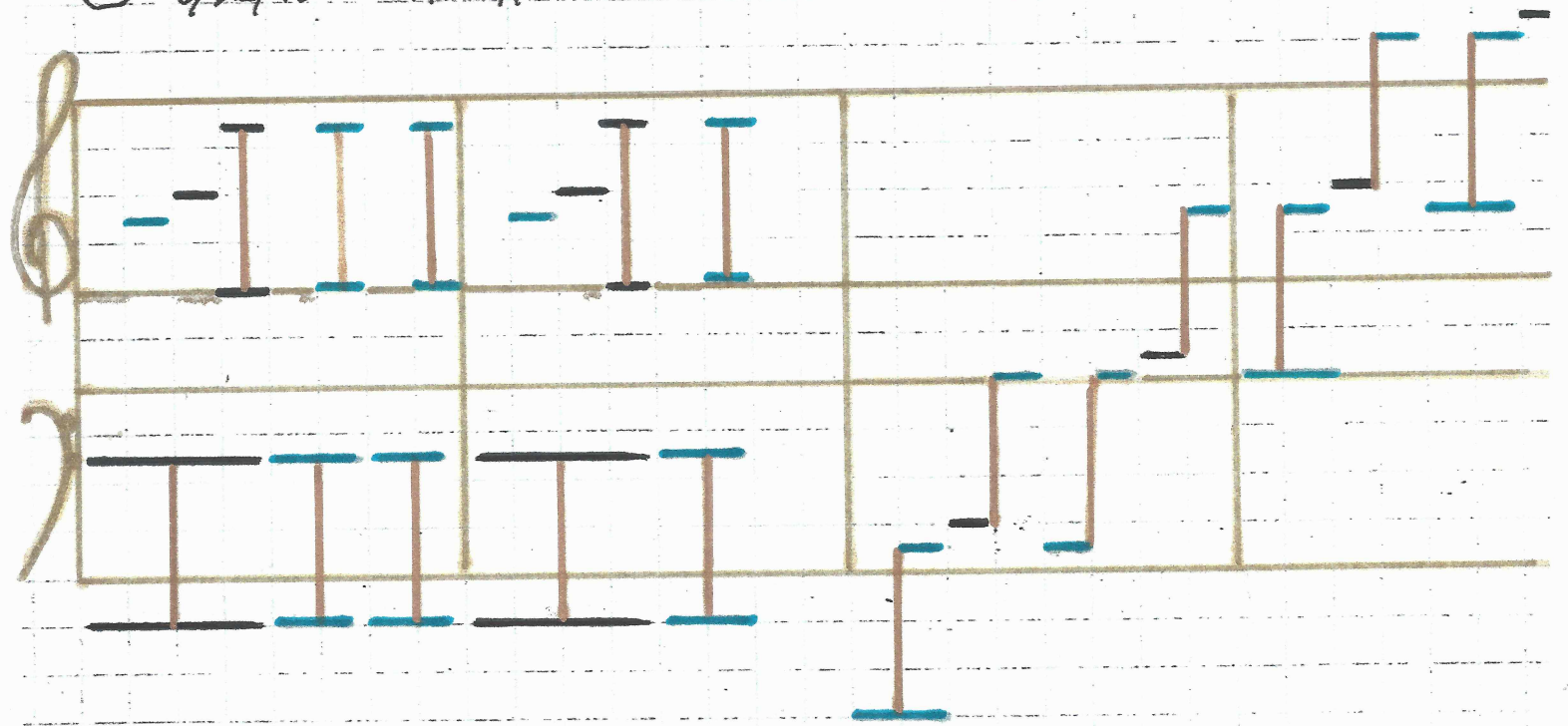
Attachment # 3 Notation with Vertical Lines to Assist Orientation



NOTATION WITH VERTICAL LINES TO ASSIST ORIENTATION

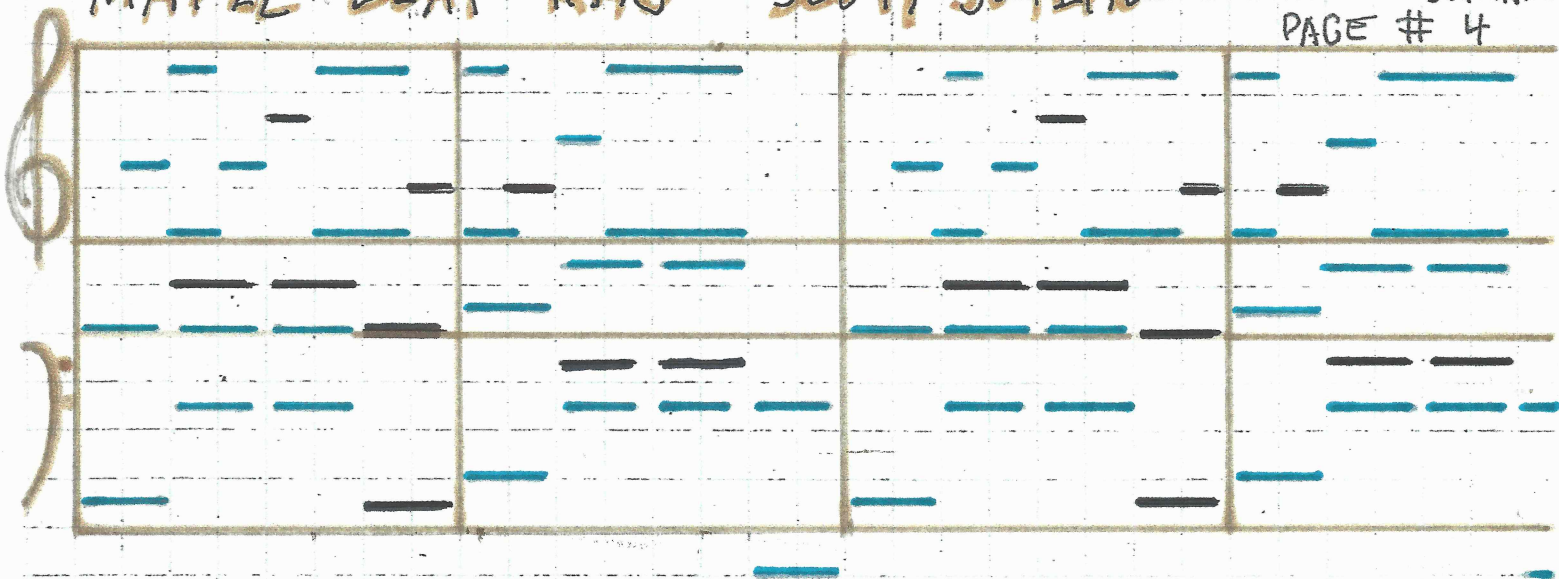
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ATTACHMENT #3



MAPLE LEAF RAG SCOTT JOPLIN

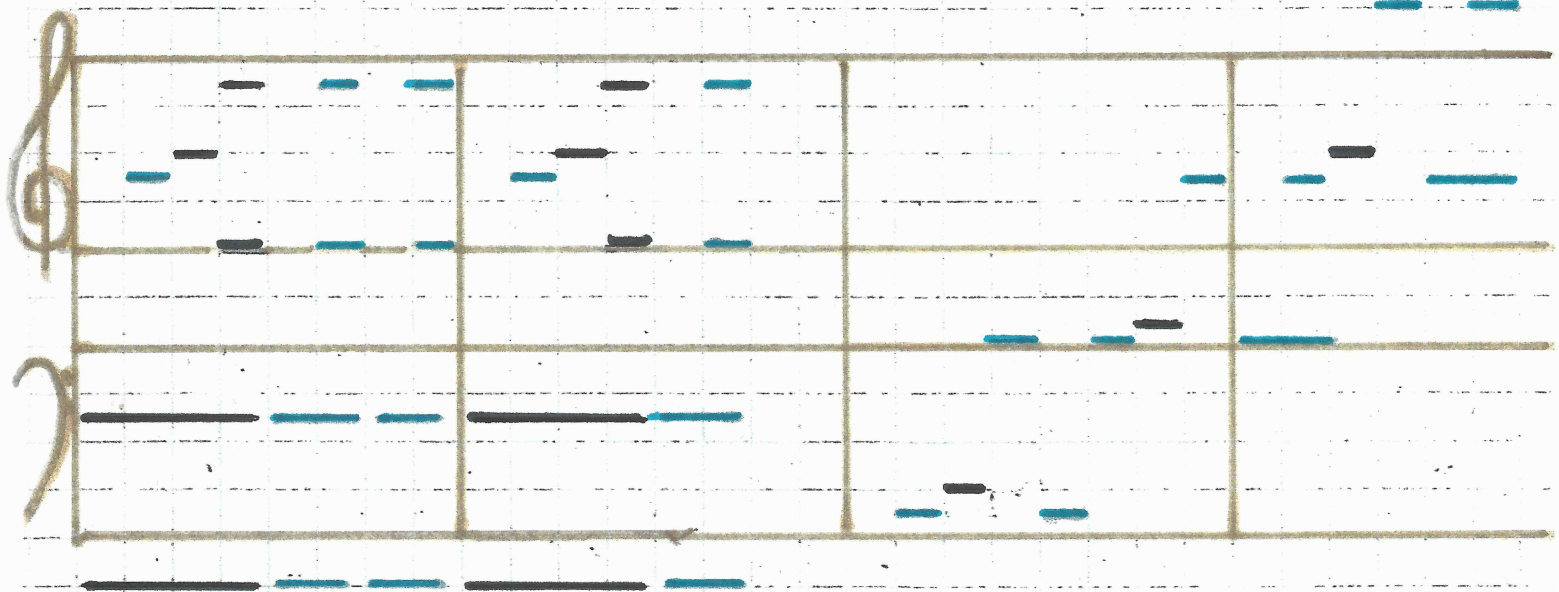
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PAGE # 4



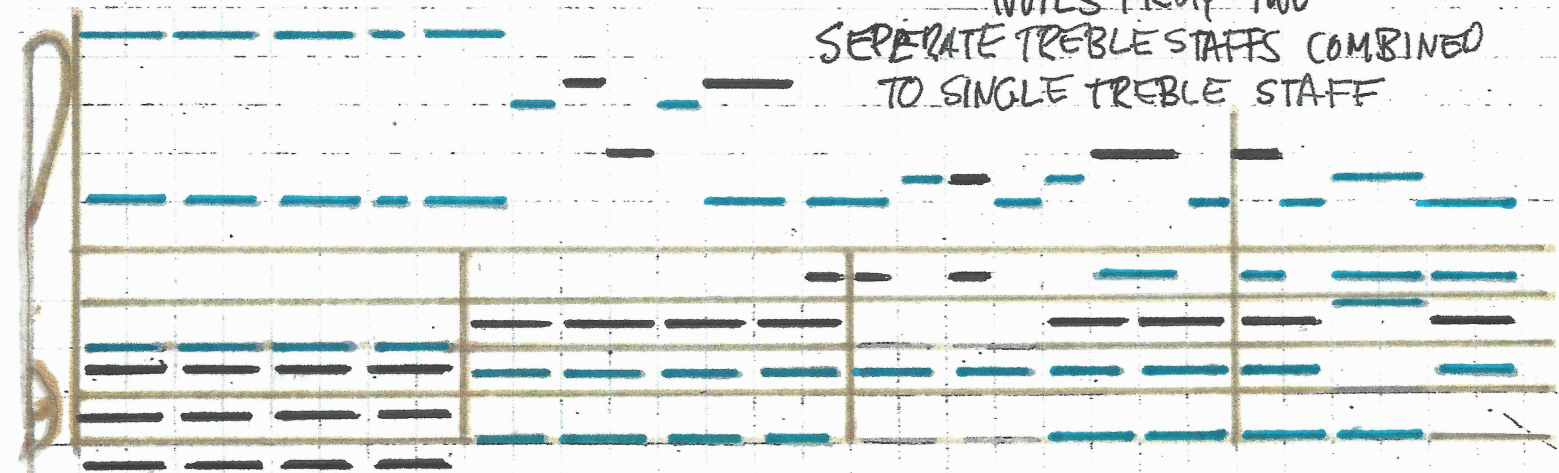
NOTATION WITH NO VERTICAL LINES FOR ORIENTATION

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ATTACHMENT #2



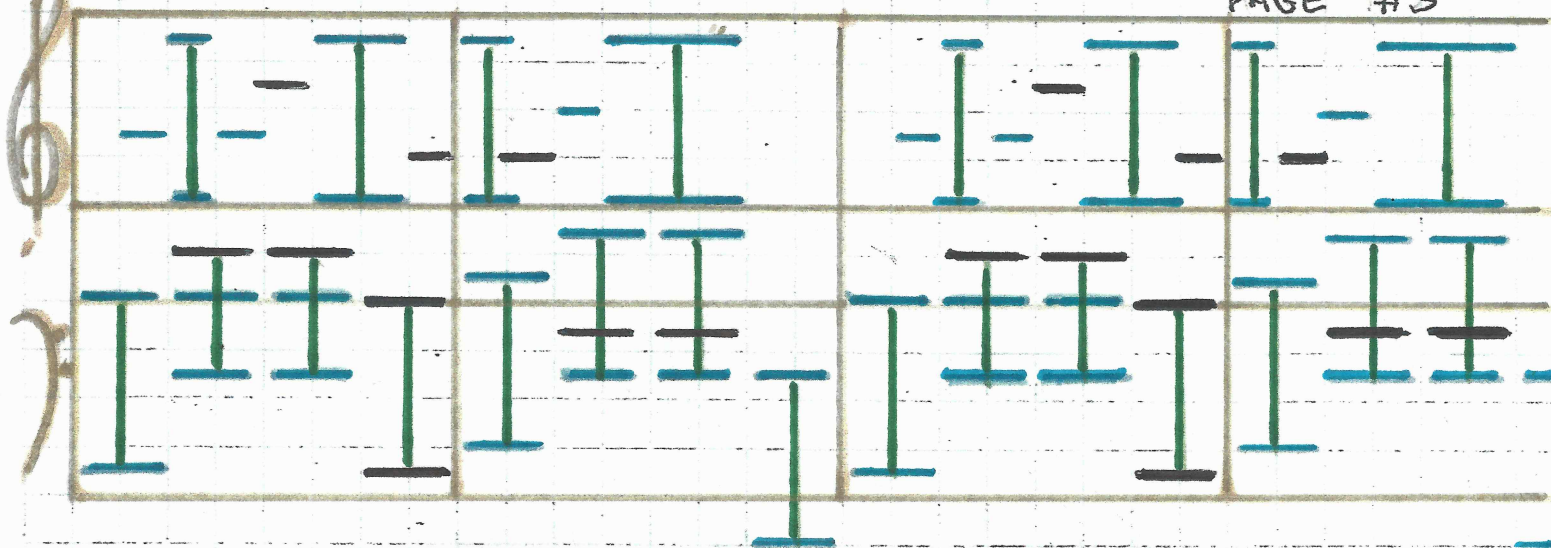
NOTES FROM TWO
SEPERATE TREBLE STAFFS COMBINED
TO SINGLE TREBLE STAFF



MAPLE LEAF RAG

SCOTT JOPLIN

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PAGE #3



NOTATION WITH VERTICAL & DIAGONAL LINES TO ASSIST ORIENTATION

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ATTACHMENT #1

