# Writing for the harp

An exploration of the mechanism of the harp, effective writing, and extended techniques for this unique instrument

By Dr. Angela Schwarzkopf

### Overview

#### Brief history of the harp

• How the modern harp mechanism works.

#### The basics of writing for harp

- Utilizing unique features.
- Common pitfalls.

#### Extended harp techniques

- Survey and demonstration of various techniques.
- Performance of examples.

#### Q&A



# Early Harps and Artistic Depictions

- Early artistic representations were found in a variety of places.
  - In tombs
  - On graves
  - By altars
- Types of representations found include:
  - Wall paintings
  - Seals
  - Plaques
  - Vases
  - Tablets

# Harps were everywhere!

- Mesopotamia
- Egypt
- Israel
- China
- Japan
- India
- Greece

# Different shapes of early harps

- Arched
- Angular
- Barrel
- Boat
- Bow
- Crescent
- Ladle
- Spade
- Spoon-shaped



# Early harps were played lots of ways!

- Seated
- Standing
- Kneeling
- Held vertically
- Held horizontally
- Played with hands
- Played with plectrum



Rosyln Rensch, Harps and Harpists, pg.45. (Pub. Indiana University Press).

# Harp in Europe in the Middle Ages

- These harps were primarily composed of three parts: soundbox, string arm, and column
- Harp representations are found in Psalters and manuscripts

#### Seventeenth and Eighteenth-Century Harps

- Harps with one set of strings
- Harps with two sets of strings
- Harps with three sets of strings
- Hook harps
- Single action pedal harps



Harpe à Crochets: Anonyme, France (?). XVIIIème siècle. Picture used with courtesy of the Museo dell'Arpa Victor Salvi. Trois siècles de harpes.

Photograph by Ruggiero Filannion (France: Western Central, 2004; print; 9).

# Some important changes:

- The structure of the harp became stronger
- More strings (up to 43!)
- Red Cs and Black Fs



Harpe à Simple Mouvement: Naderman, Paris, 1770. Picture used with courtesy of the Museo dell'Arpa Victor Salvi. Trois siècles de harpes.

Photograph by Ruggiero Filannion (France: Western Central, 2004; print; 27).

#### Nineteenth Century

- Solutions to increasingly chromatic music
  - Double action pedal harp
  - Chromatic harp



Harpe Chromatique: Pleyel, Paris, vers 1915. Picture used with courtesy of the Museo dell'Arpa Victor Salvi. Trois siècles de harpes.Photograph by Ruggiero Filannion (France: Western Central, 2004; print; 77).

Some important changes for the double action pedal harp:

- The harp can play in all major and minor keys
- A larger pedal box resulted in the overall size of the harp increasing
- More consistent tone throughout the instrument
- Enharmonic notes



Harpe à Double Mouvement: Erard et cie., Paris, 1879. Picture used with courtesy of the Museo dell'Arpa Victor Salvi. Trois siècles de harpes.

Photograph by Ruggiero Filannion (France: Western Central, 2004; print; 73).

#### Twentieth Century

- Both the double action pedal harp and chromatic harp were in use
- Some pedal harps had up to 48 strings
- Harps were being made in North America that were more sturdy and had the extended soundboard
- Salzedo devised a new method for colouring harp strings (green Cs, purple Fs, and all other notes red!)



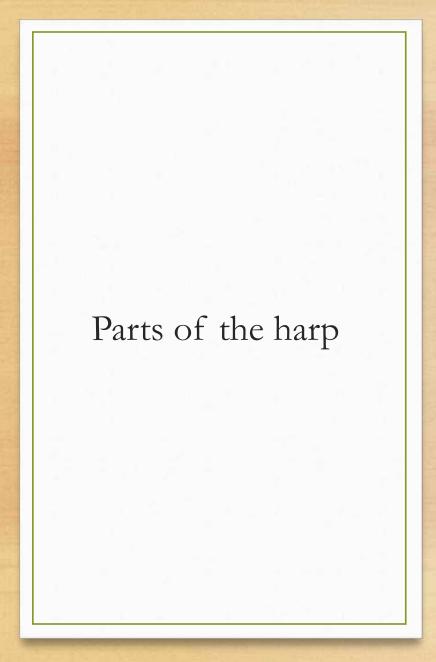
Harpe à Double Mouvement: Lyon & Healy, Chicago?, 1928. Picture used with courtesy of the Museo dell'Arpa Victor Salvi. Trois siècles de harpes.

Photograph by Ruggiero Filannion (France: Western Central, 2004; print; 91).



# Size range of harps







Effectively writing for the harp

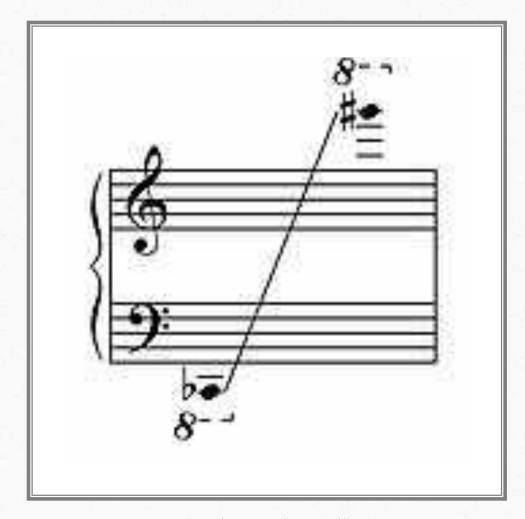




HARP BASICS UNIQUE FEATURES



COMMON PITFALLS



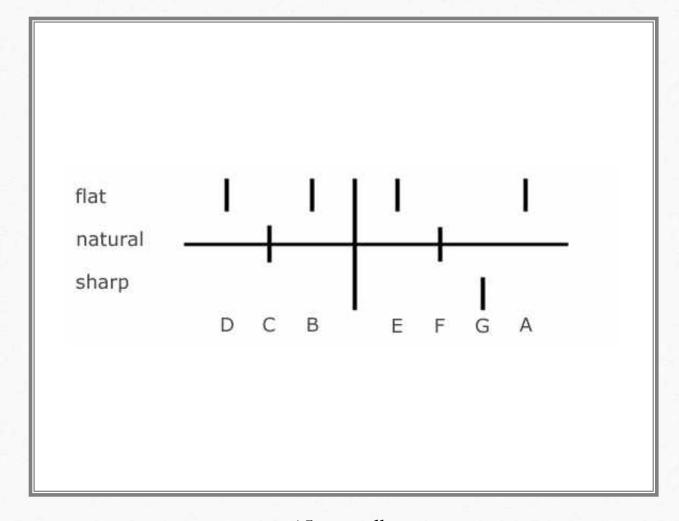
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## Range of the harp

- Bottom two strings cannot change pitch within a composition.
- The right hand plays the upper range of the harp; however, the left hand can also play the upper range.
- The left hand plays the lower range. The right hand cannot reach all of the low strings.

## Registers of the harp

The upper register is generally brighter and has good clarity. It does not resonate for a long time. The middle register of the harp is the richest with the most warm and resonant sound. The lower range is the most resonant. It can be unclear and fast articulation is often not possible as buzzing can occur.



www.15 second harp.com

## Pedals

- The left foot moves D,C, and B.
- The right foot moves E, F, G, and A.
- Both feet can move at the same time.
- The left foot can also reach the E pedal.

## How to mark pedals

- Some harpists prefer to put the pedal changes in themselves.
- Some prefer the composer to put them in.
- If you are putting them in, mark them under the staff.
- If there are two pedals, the right foot pedal goes overtop of the left foot pedal.
- Use a pedal diagram at the top of the piece.

# Fingers and hands

- Harpists use their thumb, pointer finger, middle finger, and ring finger.
- They do not use their little finger.
- Up to four notes in each hand at any one time (unless it is a rolled chord).
- Consider the span of the chord or the stretch between fingers.

#### Chords



Salzedo had a rule that all chords of more than two notes should be rolled.



Harpists tend to play most chords rolled, even when not marked.



If you have a preference between chords being rolled or played as a solid chord, indicate it in the score.



If you have a large chord of more than eight notes, the harpist will have to roll the chord.

### Muffles and rests

- The harp is a very resonant instrument.
- The harp can be muffled in different ranges and on single notes.
- The harpist will sometimes let notes ring through rests if there is not enough time to muffle them.
- It is helpful to make it clear in the score if you would like rests adhered to with a muffle or if the harp can ring through rests marked.

# Enharmonic notes

- The harp can double all pitches except D, G, and A.
- The harp can not produce a C, C-sharp, and D all at the same time. It can produce a C and a C-sharp at the same time (by using the D-flat string).

#### Harmonics

The harp can produce several harmonics on one string.

The clearest harmonics on the string is the one produced in the middle.

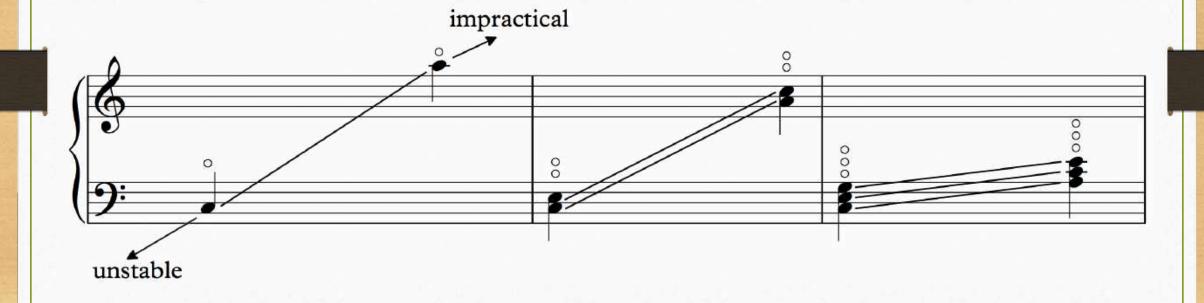
The right hand can play one harmonic at a time.

The left hand can play up to three harmonics at a time (although one or two sounds best).

If there is multiple harmonics in the left hand, consider the span of them.

Harmonics sound best on gut or nylon strings (not the wire strings).

# Range of harmonics



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# Where to write harmonics



Salzedo wrote harmonics where they sound so the harpist must play them an octave lower.



In pretty much all other music, harmonics are written where they are played producing a sound an octave higher.

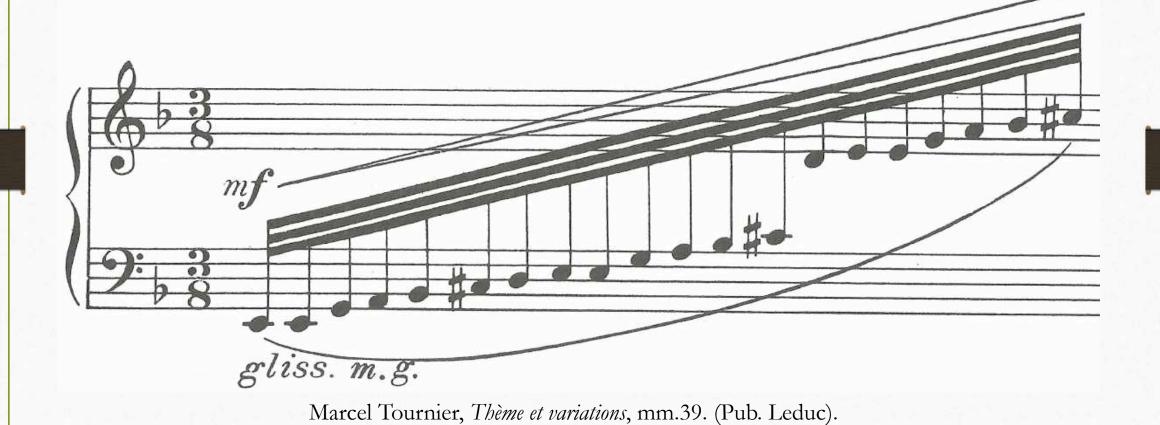


It is always helpful to make a note at the start of the composition indicating your intention.

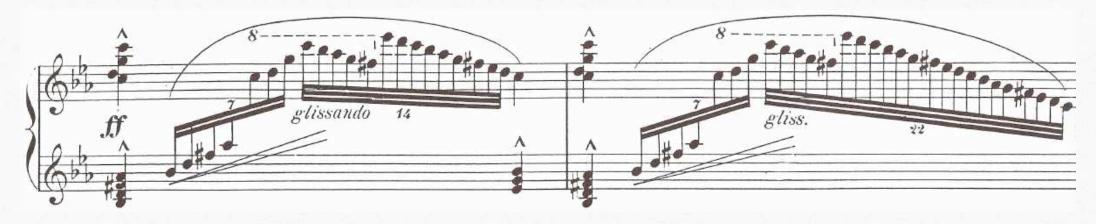
### Glissandi

- A unique feature of the double action pedal harp.
- Can create different tonalities and chords.
- Various different types of glissandi.
- Notate the tonality of the glissando with the first octave of notes if different from the key signature.

# Large note heads

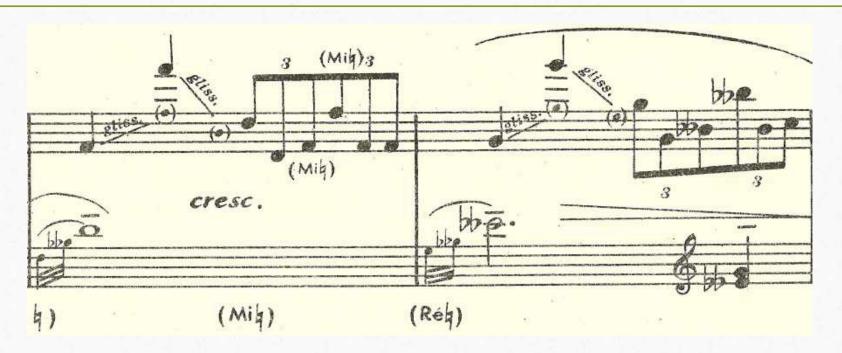


## Metric numbers



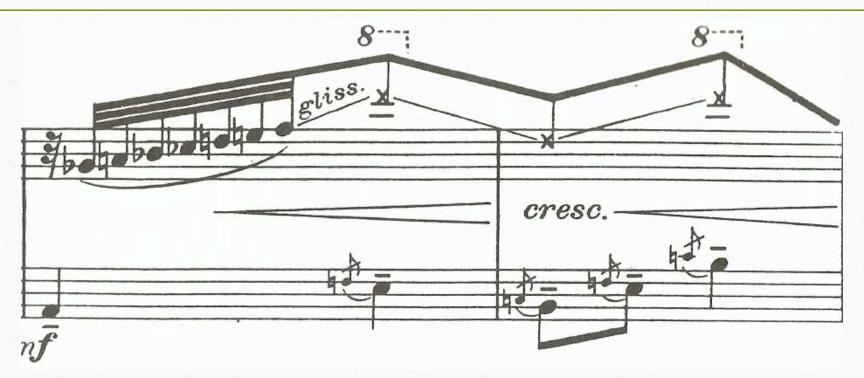
Marcel Tournier, Jazz-Band, op.33, mm.11-12. (Pub. Lemoine).

## Note heads



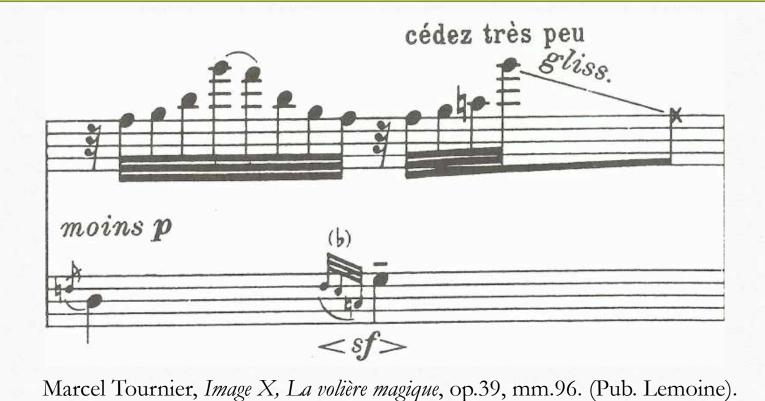
Marcel Tournier, Pastels du vieux japon, op.47, mm.17-18. (Pub. Lemoine).

## Used at meeting points



Marcel Tournier, Image X, La volière magique, op.39, mm.53-54. (Pub. Lemoine).

# To impose a limit (without a specific end note)

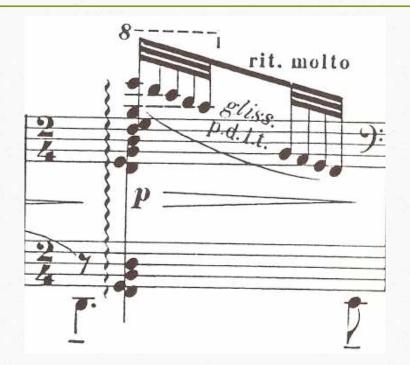


# Glissando-piccolo



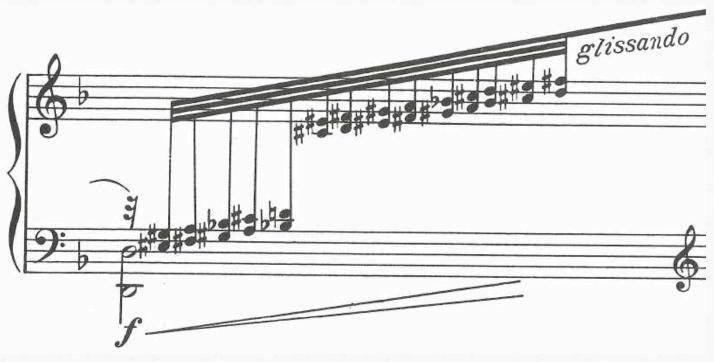
Marcel Tournier, The Harpe, pg. 82. (Pub. Lemoine).

## Glissando coming out of a chord (and p.d.l.t)



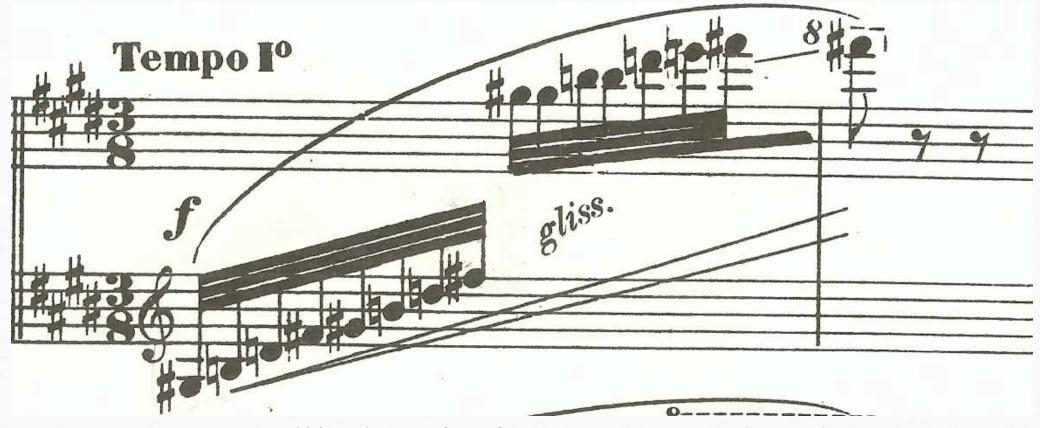
Marcel Tournier, Jazz-Band, op.33, mm.65. (Pub. Lemoine).

## Double glissando



Marcel Tournier, Thème et variations, mm.216. (Pub. Leduc).

# Mixed arpeggio



Marcel Tournier, Fête from Suite, op.34, mm.75-76. (Pub. Lemoine).

### Staccato

- The harp will not create a true staccato sound as the piano can.
- Can be expressed with articulation.
- Can be used to indicate a detachment of the fingers.
- Can be played with the right hand with the left hand immediately muffling the string.
- Can be produced by one hand if the notes are moving by step.

# Près de la table

- Played close to the soundboard.
- Creates a guitar like sound.
- Can be indicated by:
  - Près de la table
  - PDLT
  - Small wavy line
  - Large wavy line

## Common pitfalls

Writing for five fingers

Lowest two strings needing multiple pitches

Multiple pedals at one time

Two many harmonics at one time

Needing more hands or feet than possible

Writing too fast for clarity or effect

Reach of the hands or arms

Staccatos too fast or in an unclear range

Repeated notes too fast or in a buzzy range

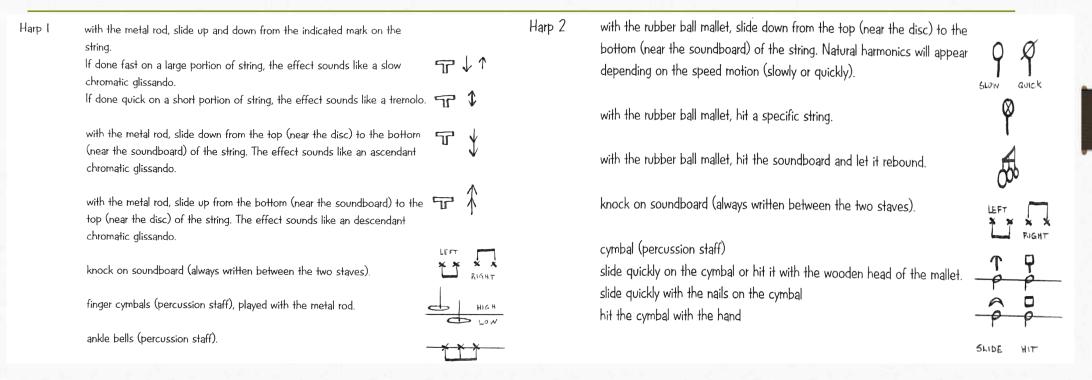
Misuse of enharmonics



# Notating extended harp techniques in your compositions

- Use a legend at the start of the piece with an explanation of what effect you would like.
- If space allows in the score, include an explanation at the start of the score or the first time the symbol is used (especially if you are using a new symbol).

# Techniques listed in a legend



Caroline Lizotte, Raga. (les éditions Calyane).

## Explanation at the start of the score

#### Winter Still

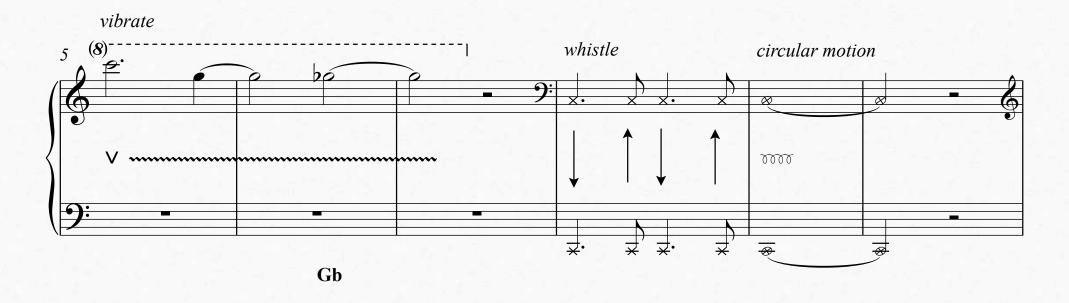
Sharlene Wallace



(Xylophonic Sound: LH 4321 finger tips pressed against the base of the strings ABDE touching the sound board, thus producing a muted sound from the RH. The LH remains muting until m3-5 when the fingers gradually lift away from the strings one at a time (1324) as indicated. This allows these notes to now ring through.)

Sharlene Wallace, Winter Still, mm.1-3. (Pub. Wallace).

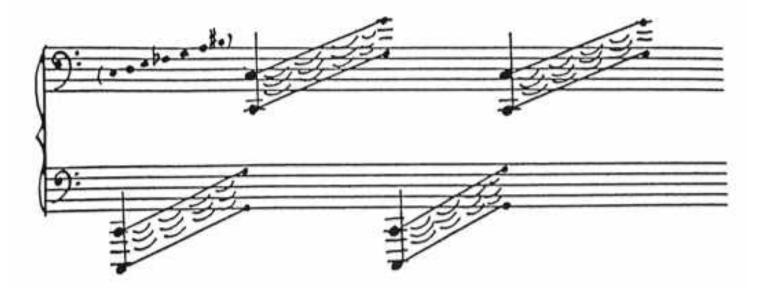
## Explanation within the score



Monica Pearce, attach, mm.5-10. (Pub. Pearce).

### Rolling Surf

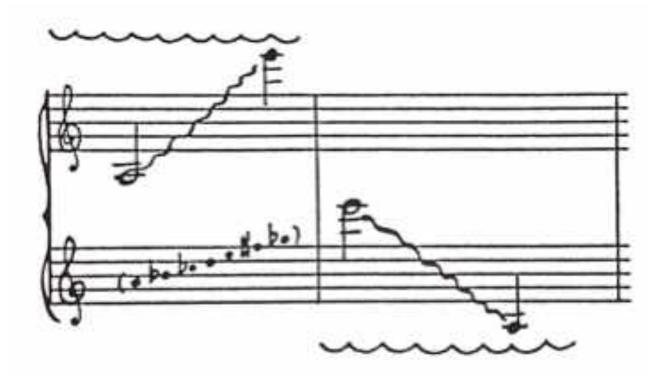
- Usually in the lower register of the harp.
- Generally played slower.
- Produces a gentle blurred and bubbly sound.



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 97. (Pub. Lyon & Healy).

#### Oboic Flux

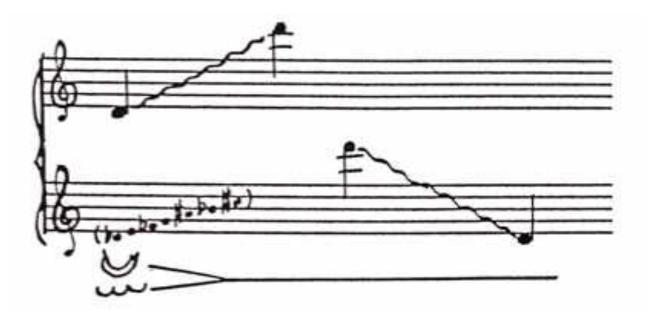
- Played similar to a glissando but closer to the soundboard.
- Creates more of a wooden sound.



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 97. (Pub. Lyon & Healy).

### Xyloflux

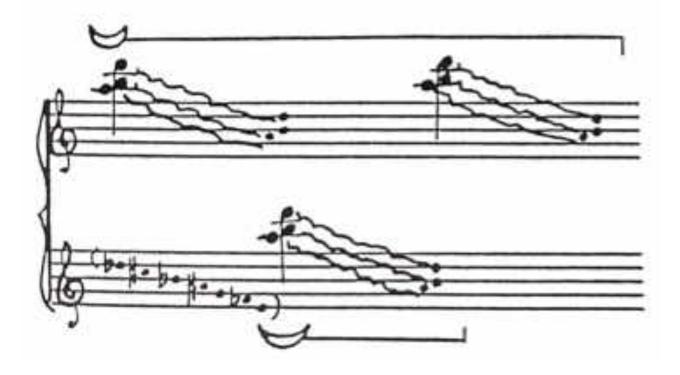
- Played close to the soundboard and with the nail.
- Creates a wooden sound but with a click.



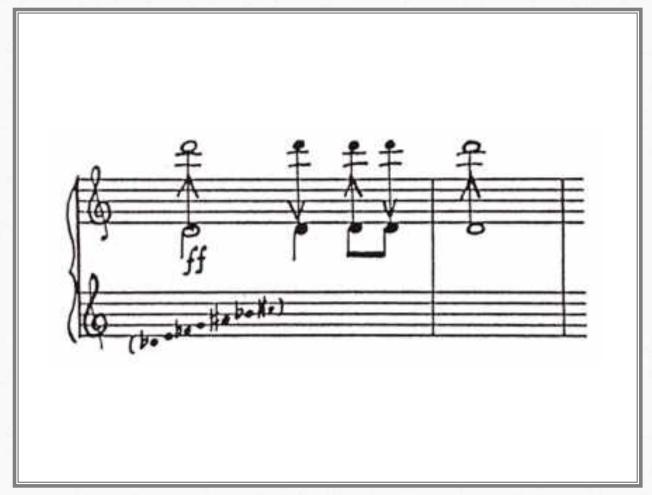
Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 98. (Pub. Lyon & Healy).

### Falling-hail

- Played with the back of the nails.
- Creates a click type sound.
- Not a loud effect.



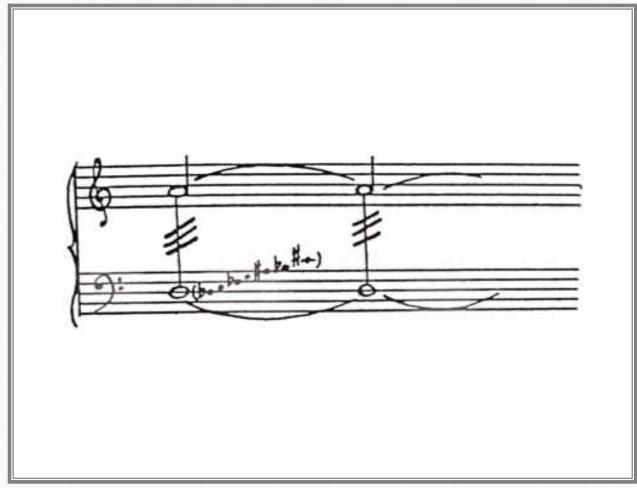
Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 97. (Pub. Lyon & Healy).



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 98. (Pub. Lyon & Healy).

## Gushing Chord

- A quick upward glissandi.
- Often very rhythmic.
- Can go upward or downward.



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 99. (Pub. Lyon & Healy).

## Aeolian Tremolo

- Flat hand rubs strings.
- Creates a rustling sound.
- Very soft sounding effect.

#### Aeolian Chord

- A short, rhythmic glissandi.
- Play over a specific set of pitches.
- Can be played ascending or descending.



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 99. (Pub. Lyon & Healy).



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 99. (Pub. Lyon & Healy).

## Thunder Effect

- Created on the lowest wire strings.
- Produced by rapidly sliding a finger over the strings.
- The wire strings rattle against each other.

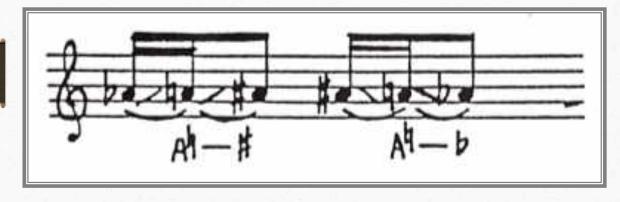
#### Whistling Sounds

- Played with the palm of the hand on the wire strings.
- Upward or downward gesture.
- Can be fast or slow.
- Soft effect.



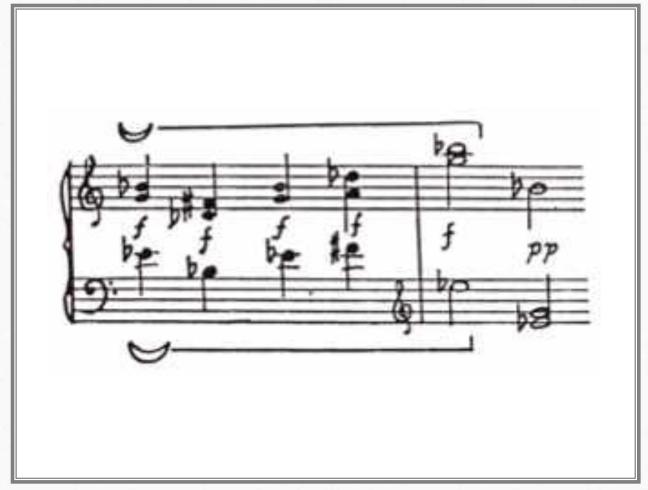
Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg. 100. (Pub. Lyon & Healy).

### Pedal Slide



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 100. (Pub. Lyon & Healy).

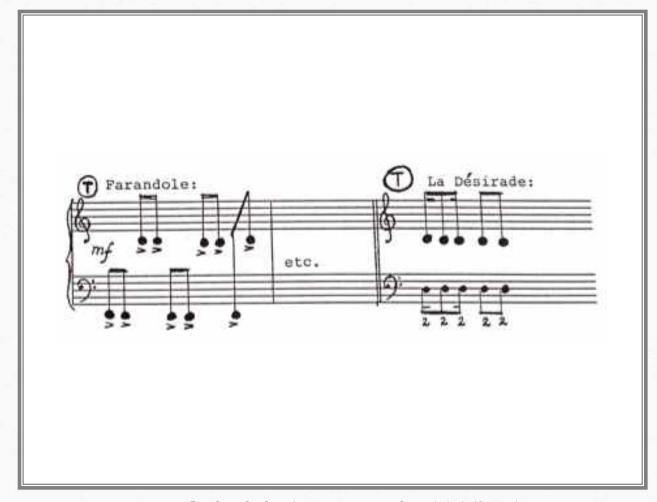
- Created by moving the pedal after a string is plucked.
- The sound is gentle on the higher strings.
- The tone is more aggressive on the wire strings.
- Can be done fast or slow (depending on the range).
- Can be played rhythmically.



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 102. (Pub. Lyon & Healy).

### Plectric Sounds

- Created by plucking with the fingernails.
- Played close to the soundboard.
- Creates a metallic sound.



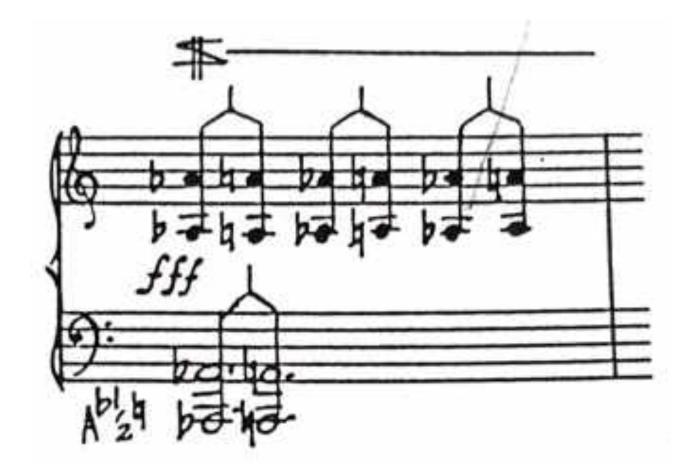
Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 100. (Pub. Lyon & Healy).

# Timpanic Sounds

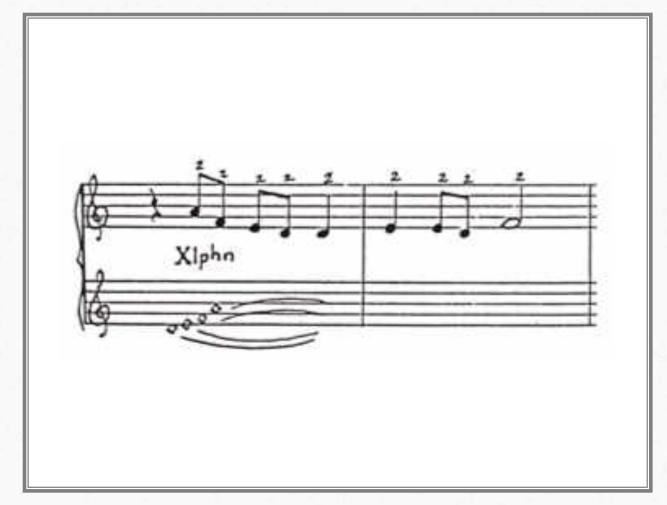
- Tapping of the soundboard with the fingers or hand. (This is different from knocking on the soundboard).
- Creates a feeling of castanets.
- Can be quite soft dynamically.

#### Metallic Sounds

- Achieved by holding the pedal between two notches.
- Creates a loud brassy metal like sound.



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 101. (Pub. Lyon & Healy).



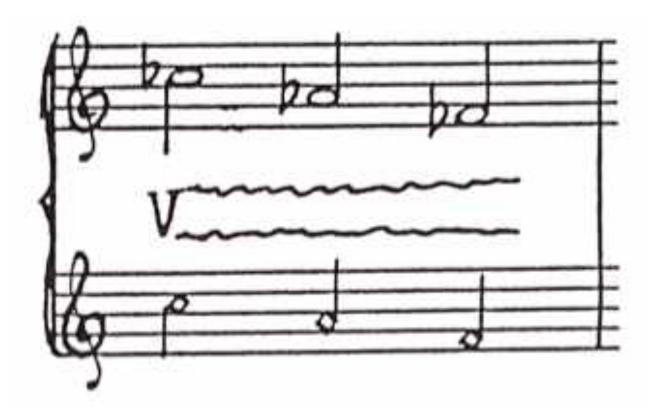
Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 104. (Pub. Lyon & Healy).

# Xylophonic Sounds

- The tips of the fingers in one hand touch the strings, while the others pluck the note.
- The sound produced is wooden.

#### Vibrant Sounds

- The right hand plucks the string.
- The left hand presses the string in-between the disks and the tuning pin.
- This is most effective in the upper register of the harp.



Dewey Owens, Carlos Salzedo: From Aeolian To Thunder, pg 103. (Pub. Lyon & Healy).

#### Miscellaneous







TUNING KEY GLISSANDO



PAPER IN THE STRINGS



PLUCKING THE STRING WITH A PICK

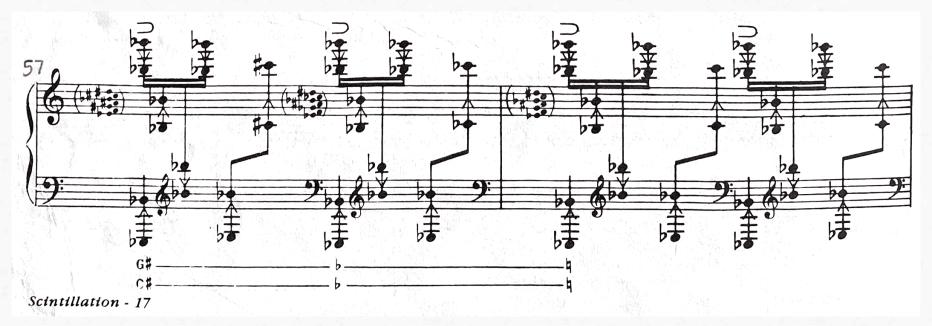


USING A HONEY DIPPER IN THE STRING



USING A MALLET ON THE STRINGS

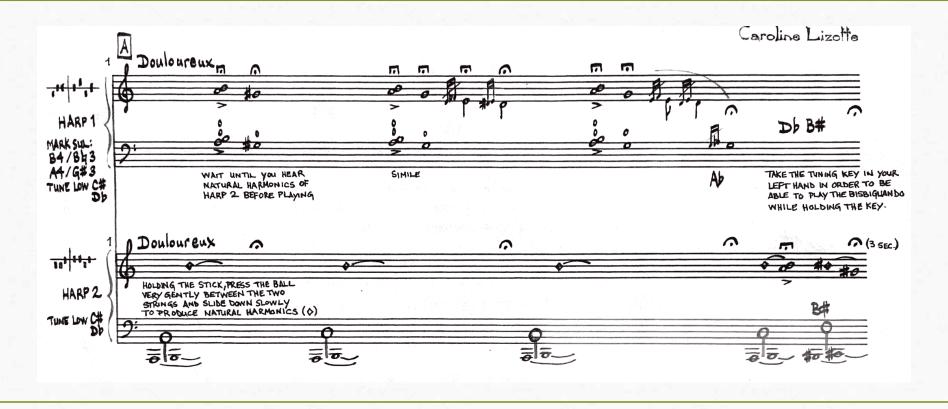
## Combination of techniques



Carlos Salzedo, Scintillation, mm.57-58. (Pub. Salvi).

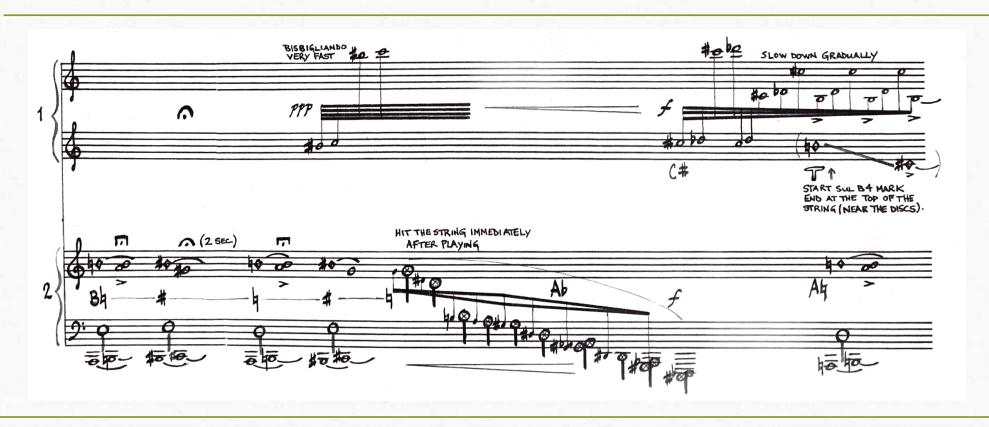
## The opening of Raga by Caroline Lizotte

(les éditions Calyane)

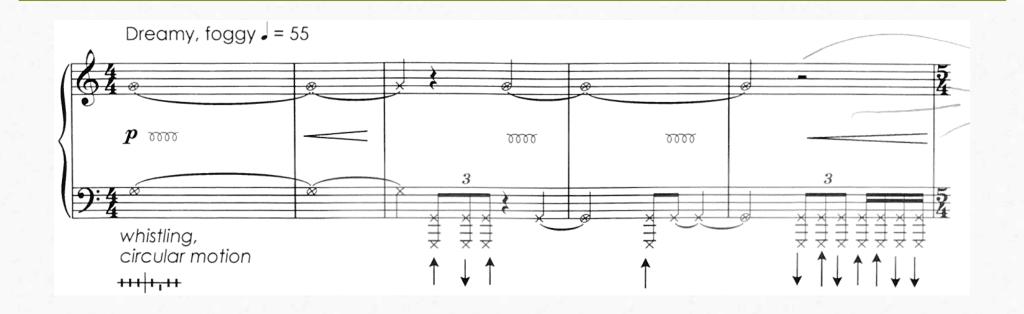


## Raga...continued

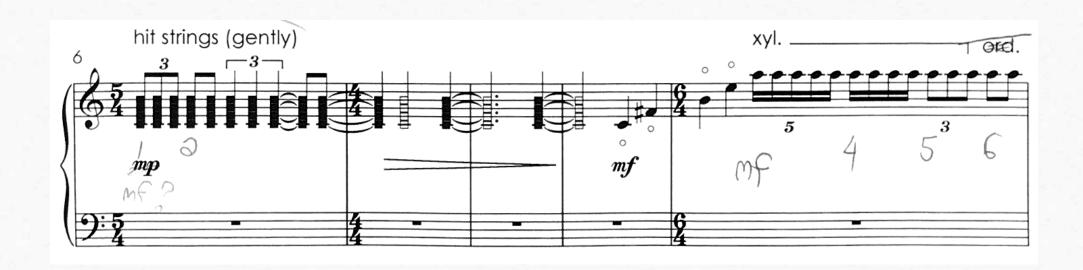
(les éditions Calyane)



## Opening of detach by Monica Pearce



## detach...continued



Harpist generally love working with composers.

Take a harp lesson.

Share your sketches.

Work through drafts.

Be open to exploring different options if one effect does not work.

Final thoughts...



