



Guatemalan Manuscript Digitization Project

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Project Goals

- Preservation and dissemination of the musical content of a set of colonial music manuscripts from Guatemala
- Using the tools developed at SIMSSA
 - Pixel.js
 - Calvo's method
 - Interactive Classifier (IC)
 - Pitch finding
 - Scoring-up tool



[Wikipedia: Central America](#)

- Copied between XVI - XVIII
- **Choirbooks**
- Written in **mensural notation**
 - Music notation system used in Europe throughout the Late Middle Ages and the Renaissance



Mensural Notation

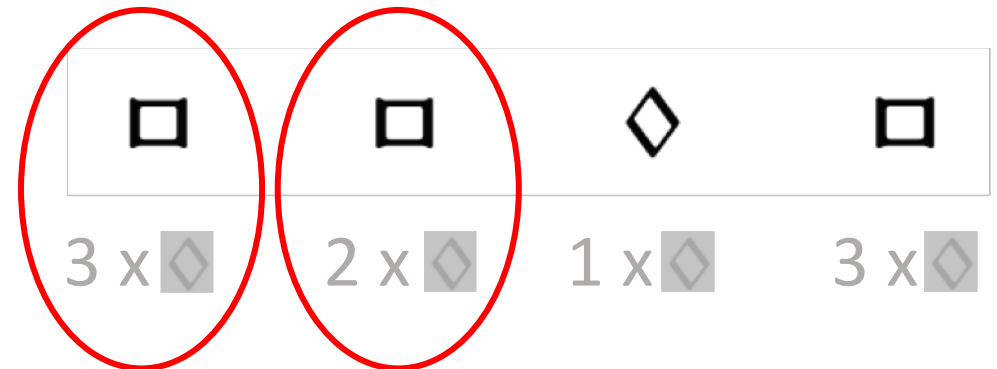
longest

↓

shortest

Notes		Values			
Name	Shape	Perfect			Imperfect
Maxima	⏏	⏏	⏏	⏏	⏏ ⏏
Long	⏏	◻	◻	◻	◻ ◻
Breve	◻	◊	◊	◊	◊ ◊
Semibreve	◊	⏏	⏏	⏏	⏏ ⏏

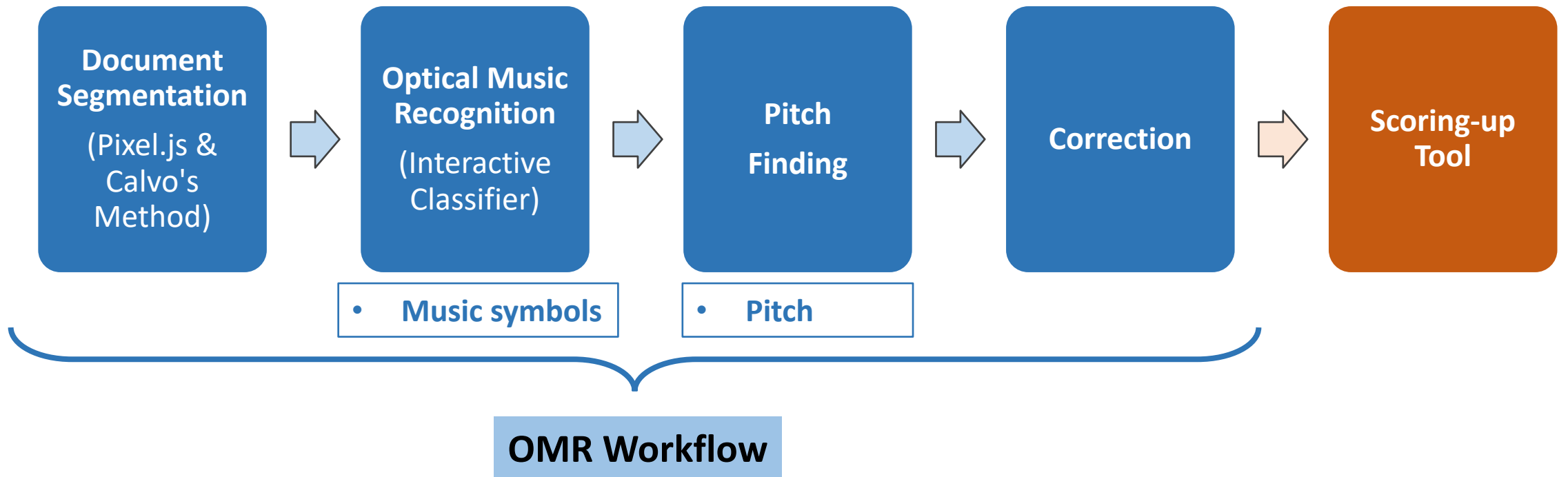
mensuration



- Lack of high-quality digital images
- Notation style (mensural notation)
- Layout (choirbook format)



SIMSSA Tools



- Pitch
- Note shape



OMR



Mensural
MEI file

Superius part



OMR



Mensural
MEI file

Contratenor part



OMR



Mensural
MEI file

Tenor part

Scoring-up Tool

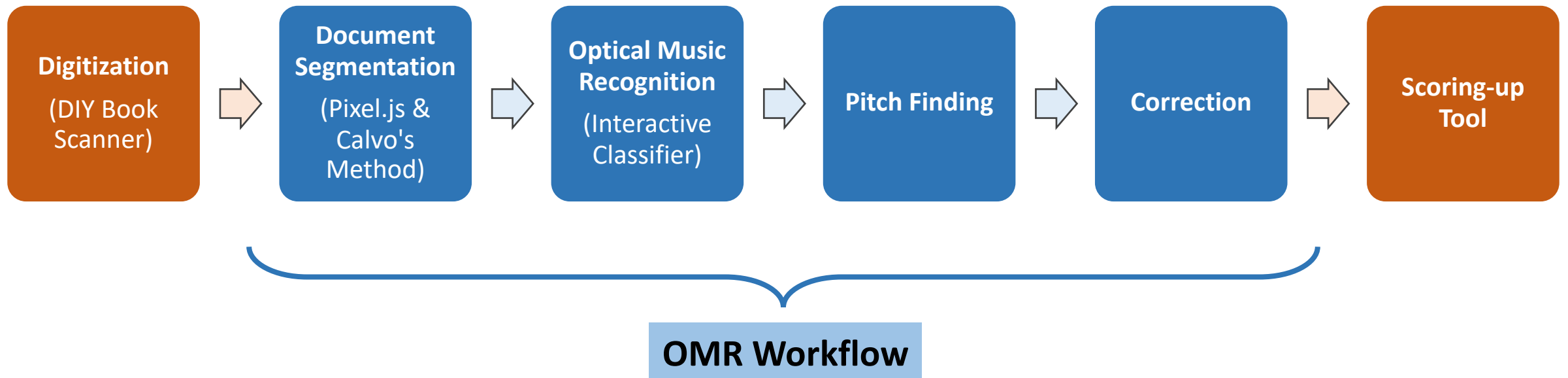
1. Duration based on context
2. Merge all files together

Mensural
MEI file

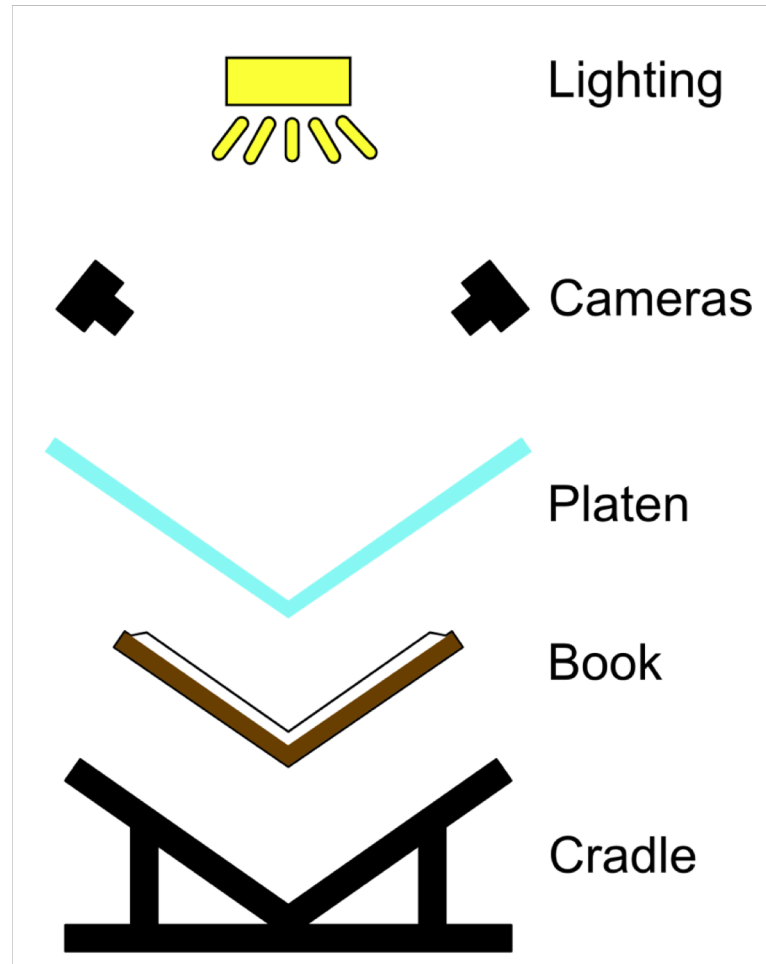
SCORE

Verovio

SIMSSA Tools

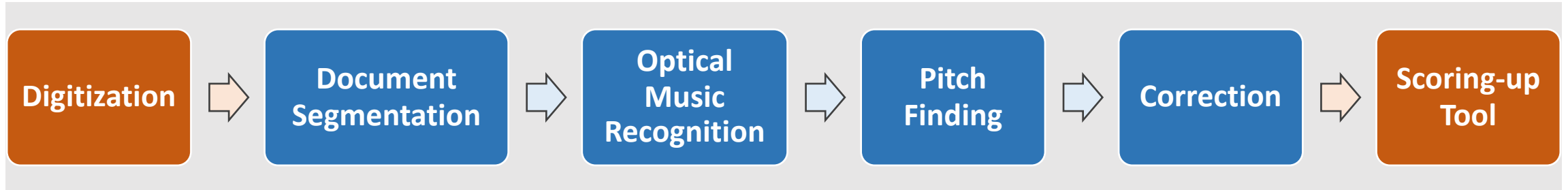


DIY Scanner



[DIY Book Scanner](#)

Expected Results



- Digitization and encoding of the repertoire as musical scores in a machine-readable file format
- Facilitate its preservation, dissemination, study by musicologists, and appreciation by the general public
- We expect this research to be used as a model for the digitization of the mensural repertoire of other countries that were once part of the colonial past

Thank you!

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