



Guatemalan Manuscript Digitization Project

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SIMSSA Workshop XVII
CIRMMT, McGill University
Montreal, December 01, 2018

Project Goals

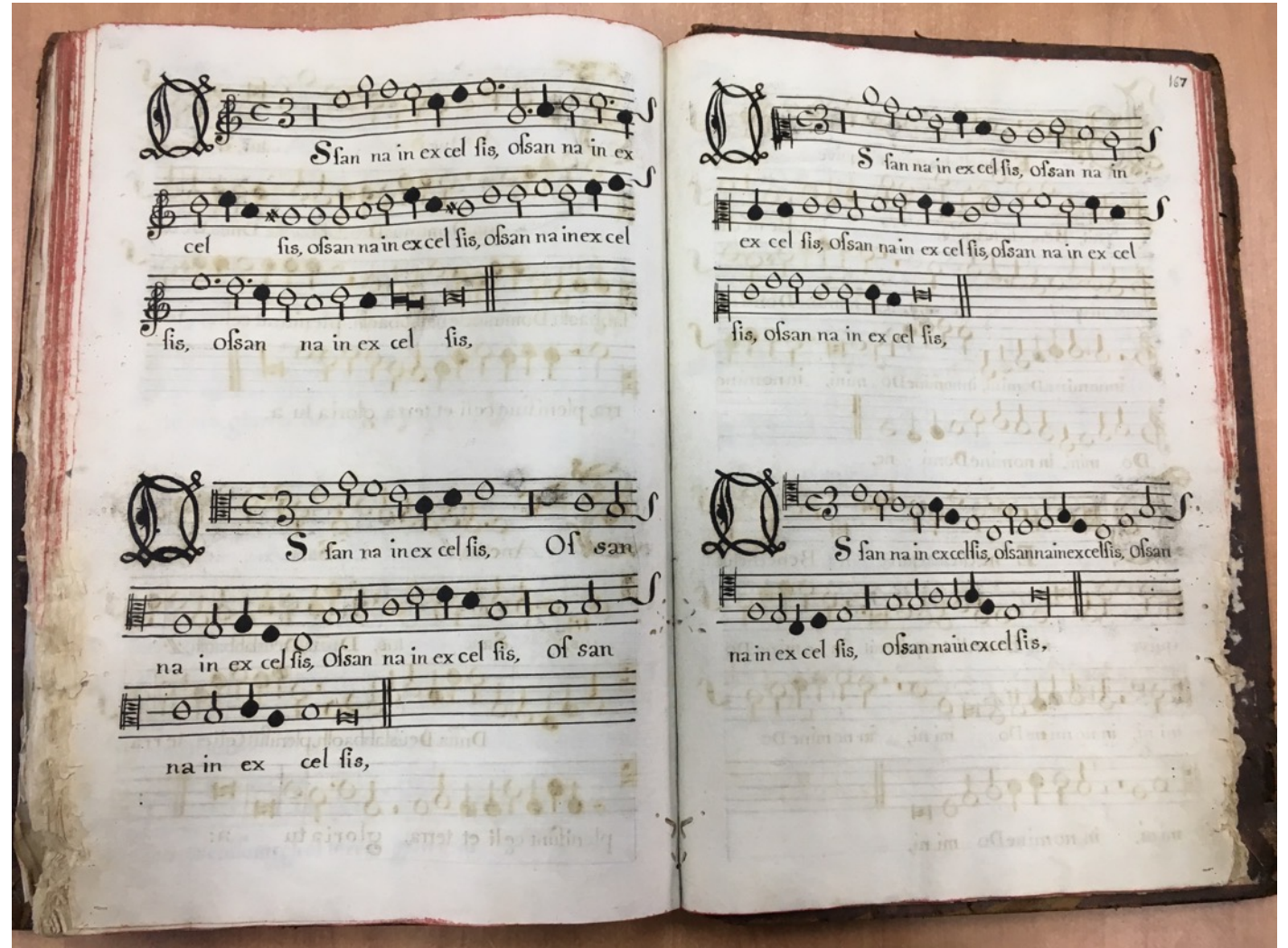
- Preservation and dissemination of the musical content of a set of colonial music manuscripts from Guatemala
- Using the tools developed at SIMSSA
 - Pixel.js
 - Calvo's method
 - Interactive Classifier (IC)
 - Pitch finding
 - Scoring-up tool



[Wikipedia: Central America](#)

Guatemalan Manuscripts

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

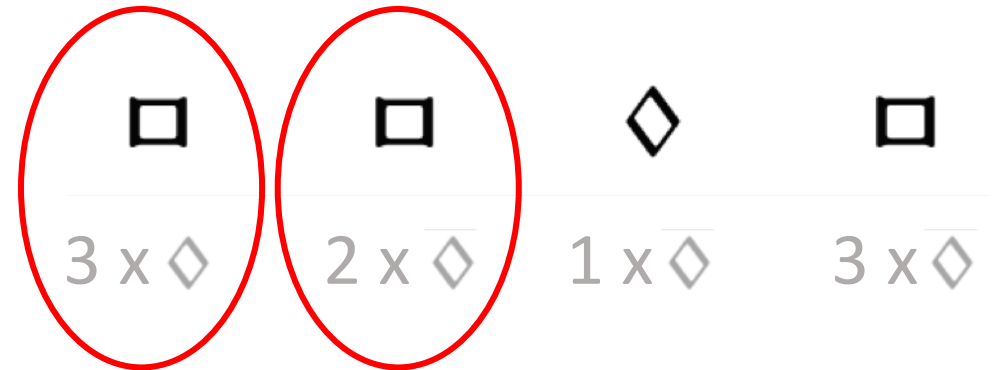


Mensural Notation

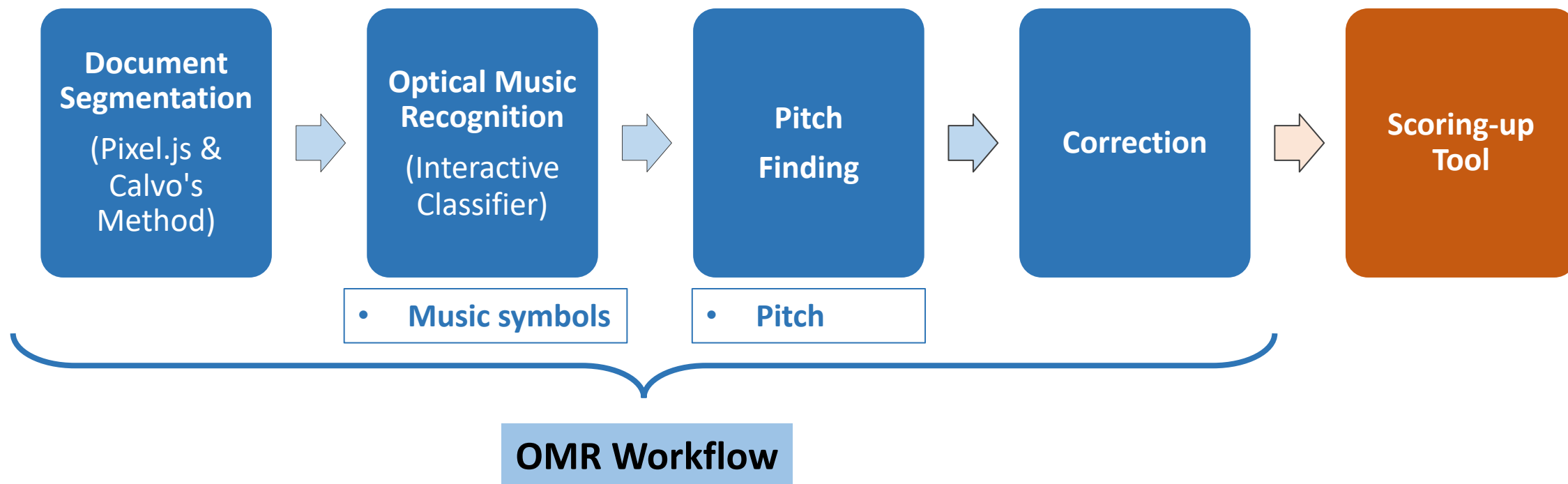
longest
↓
shortest

Notes		Values				
Name	Shape	Perfect			Imperfect	
Maxima	☐	☐	☐	☐	☐	☐
Long	☐	☐	☐	☐	☐	☐
Breve	☐	◇	◇	◇	◇	◇
Semibreve	◇	↓	↓	↓	↓	↓

mensuration



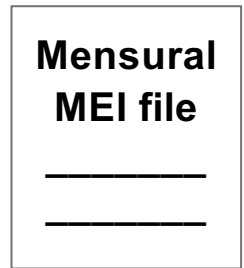
SIMSSA Tools



- Pitch
- Note shape



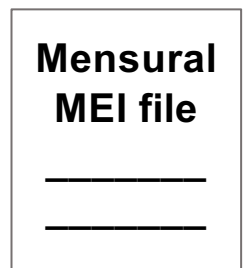
OMR



Superius part



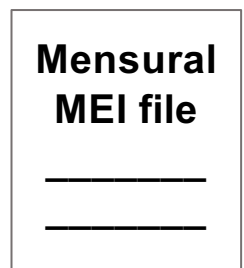
OMR



Contratenor part



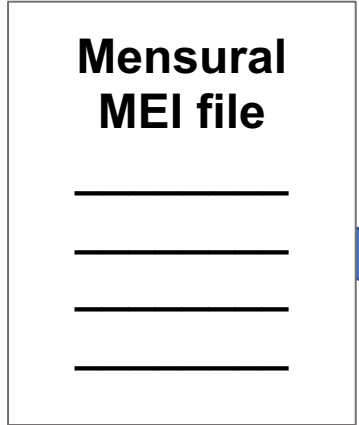
OMR



Tenor part

Scoring-up Tool

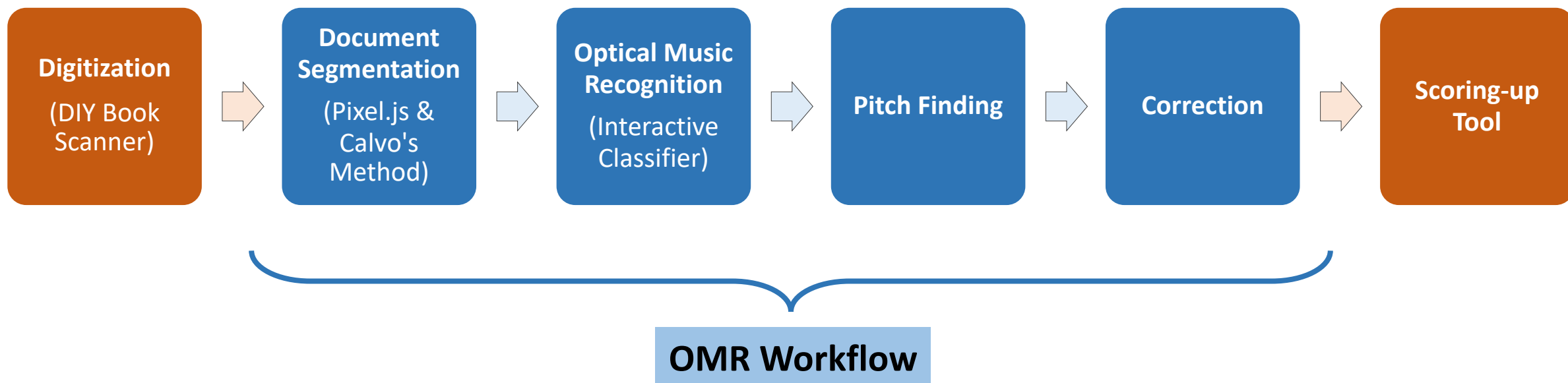
1. Duration based on context
2. Merge all files together



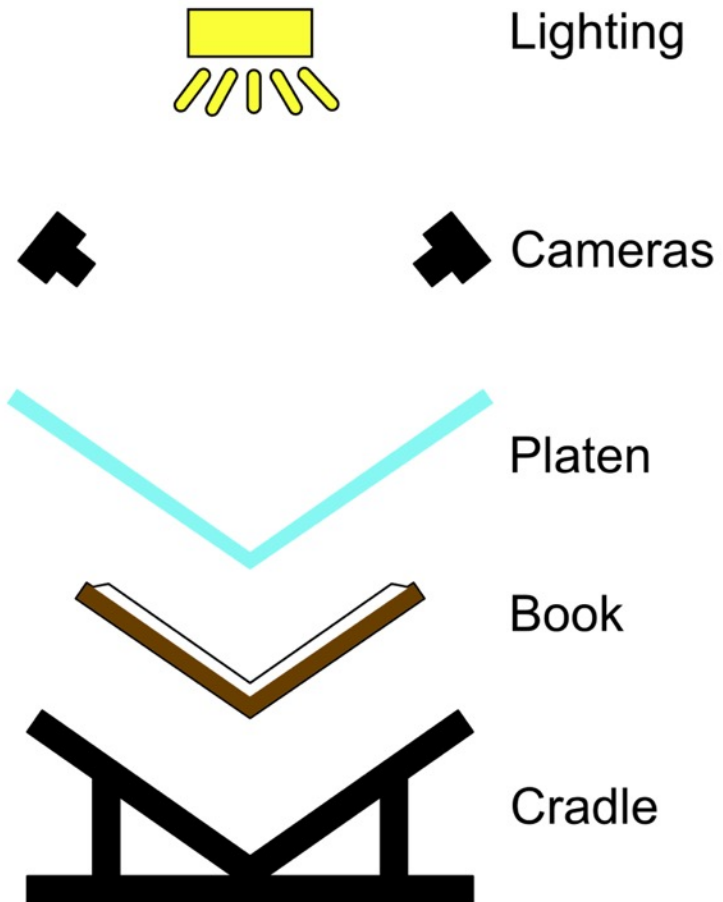
SCORE



SIMSSA Tools

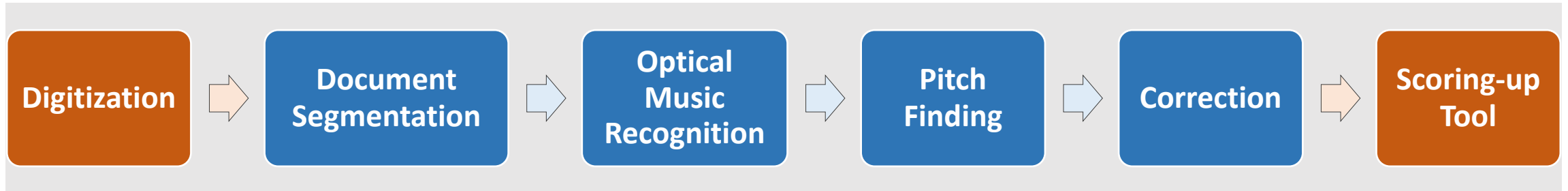


DIY Scanner



[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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SIMSSA | Single Interface for Music
Score Searching and Analysis

Verovio

MUSIC ENCODING
MEI
INITIATIVE



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Research Council of Canada

Conseil de recherches en
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DDMAL DISTRIBUTED DIGITAL MUSIC
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in Music Media and Technology

Fonds de recherche
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