ABJAD:

AN OPEN-SOURCE SOFTWARE SYSTEM FOR FORMALIZED SCORE CONTROL

Introductory Workshop

Trevor Bača ¹ Josiah Wolf Oberholtzer ¹ Jeffrey Treviño ² Study Day on Computer Simulation of Musical Creativity (Saturday 27 June 2015)

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INTRODUCTION

The Abjad API for Formalized Score Control extends the Python programming language with an open-source, object-oriented model of common-practice music notation that enables composers to build scores through the aggregation of elemental notation objects.



ABJAD?

CODE STATISTICS

- · 496 public classes
- · 387 public functions
- · 186,963 lines of code
- · 9399 unit tests
- · 10190 documentation tests

HISTORY

- · C into Finale via MIDI (1997)
- · Mathematica into Sibelius via MIDI (2001)
- · Mathematica into SCORE (2003)
- · Mathematica into LilyPond (2004)
- · Python into Adobe Illustrator (2004)
- · Python into LilyPond (2005)
- · Max/MSP into MS Access into Adobe Illustrator (2008)1
- · Public release on GoogleCode (2008)
- · Migration to GitHub (2011)
- · Abjad 2.16 released (2015)

¹An attempt by Josiah before discovering Abjad.

SCORE APPLICATIONS

JOSIAH'S MUSIC

JEFF'S MUSIC

TREVOR'S MUSIC

OTHER COMPOSERS

NON-SCORE APPLICATIONS

IPYTHON

SASHA

NCODA



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