Code-Assisted Music Composition with Python and Logic Pro X

Marcelo Cicconet, IMPA, Feb 2019
Background

IMPA, 2007-2010
Background

Paparazzi (Lady GaGa)

Party in the USA (Miley Cyrus)

Three (Britney Spears)

You Belong With Me (Taylor Swift)

M. Cicconet, P.C. Carvalho
IVAPP 2010
Background
Background
Background

Harvard, 2016-Present
Meanwhile...
Goals

• Use known programming language to compose various musical elements

• Output to professional DAW for easy editing / production
Approach

- Python / Mido / Jupyter Notebook
- Logic Pro X / MIDI Input & Clock Synch
Result
( Live Demo )
References / Influences

- Epic: Pegasus, Thomas Bergersen, Vanquish
- Logic / Dance Music: Armin van Buuren’s Masterclass
Thanks!

- Track: https://soundcloud.com/user-375018090/summerinrio
- Code: https://github.com/cicconet/JupyterLogic