

Graphical authoring of interactive applications with i-score

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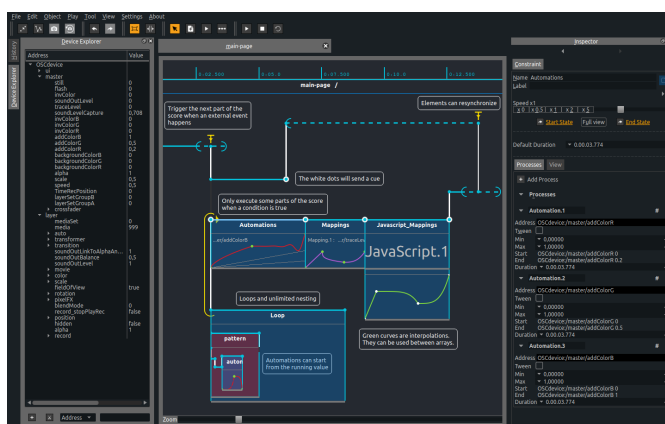
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Presentation

The following workshop aims to present the use of the i-score (www.i-score.org) temporal interaction design software.

The workshop will first present the challenges and rationale that led to the creation of the software. That is, the lack of precise tools for precise temporal design.

Then, the construction of a score will be detailed, on practical examples involving audio and video features, and interaction with a familiar creative coding environment.



A score in the i-score software

One of the core goals of this project is to make most features accessible without the need to resort to programming. This is in order to maximize usability by designers who may not have a computer science background, as is often required with other creative environments.

Workshop objectives

The main objective is for the participants to be able to use the i-score software autonomously by the end of the workshop.

This means :

- Comprehension of the temporal elements offered by the software paradigm, usage of the different parts of the user interface.
- Authoring of both linear (score-like) and non-linear (installation-like) programs.
- Orchestration of common multimedia software with i-score : PureData, Max/MSP, Unity3D, Processing, and more generally any kind of OSC-compliant software. Some of these software are able to talk the Minuit protocol via extensions¹ which allows for a tight integration between the actual media application, and i-score.

*<http://www.blueyeti.fr>

†<http://scrime.labri.fr>

¹<http://www.jamoma.org> and <https://github.com/OSSIA/>

- Leveraging the temporal features of i-score to handle common problematic cases in the case of interactive installations : applications with multiple states such as interactive kiosks, and error or exceptional case handling.
- Leveraging the i-score JavaScript API for problems easily solved by a code snippet, such as complex arithmetic computations or deeply-intertwined conditions.
- If there is enough remaining time, an overview of the incorporated audio features that allow to create interactive musical scores without the need to resort to an external software.

Requirements

Requirements for participants

There is no formal requirement, but it would be better for the participants to have familiarity with at least one creative coding environment, such as Max/MSP, PureData, OpenFrameworks, Processing.

The software in itself is free software, available for Linux, Mac, and Windows computers from the website. Text tutorials and documentation are also provided as a reference.

Technical requirements

For a better experience, the participants should have a Mac computer with Max/MSP to be able to follow the workshop steps on their own. The workshop is also possible for OpenFrameworks or Processing, although the later does not provide a deep integration with i-score.

Presenter biography

Jean-Michaël Celerier², born 1992, is a ph. d. student in computer science and multimedia interaction, under an industrial agreement between the company Blue Yeti and the Université de Bordeaux, where he is part of the SCRIME (Research & Creation Studio in Computer Science and Experimental Music).

He did an engineering cursus in computer science and multimedia technologies, and aims to decrease the barrier of entry to interactive music making with his work. His personal interests include music recording, guitar playing, and creative coding.

References

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²<http://jcelerier.name/>