

CREATIVE DIGITAL INTERACTION

WORKSHOP WITH PURE DATA

Introduction to visual programming and open-source hardware
for audio-video interaction in "real time"

'ready made solutions require ready made problems. For everything else there is Pure Data ... ' (Mathieu Bouchard)

.description

Nowadays there is a huge offer of software for generation and manipulation of media (video, audio ...). most artists and users use products from the same companies that monopolize these tools.

Come and discover an "open-source" tools that allow to create and manipulate audio and video. We present Pure Data (Pd), a graphical programming language that allows creation of software in an intuitive way by designing flowcharts (patches), and its connection to open-source hardware like Arduino and RaspberryPi. The ideal concept / paradigm for learning about basic digital video and audio and the interaction with sensors. The aim is to create interactive stand-alone applications based on the the participants ideas, and to get a deeper understanding about computers and the digitalized world.

.modules

- Sound generation

Oscillators, recording, loops, effects. Pd on smartphones and tablets.

- Gem image generation, video capture and playback (webcam), video transformation and analysis

- communication / interaction / bluetooth control, wii and android

- Stand-alone systems with RaspberryPi

.goals

Give participants the bases of PureData for the creation of their own instruments, installations or applications, Arduino to use sensors and RaspberryPi to set up stand-alone systems.

.target audience

Artists and onlookers who want to know more or expand knowledge about digital audio and video and interactive control between them, installations, mobile applications, etc.

.timetable

The flexibility of the presented tool allows you to create digitally with ease, so the duration of workshops-classes can vary from a minimum of 2 hours (presentation and fundamental concepts) to courses of 3, 6 or 9 months (one meeting per week and creation of projects)).

The ideal workflow consists in 12 hours grouped in 3hours sessions, once or twice a week.