

> What is Max/MSP/ ?

Max/MSP is a real-time, interactive, graphic programming environment for music, audio, media, and interactive installations. Much more than a piece of software, Max provides users with the resources to build their own tools for signal processing, synthesis and data management. It is extremely versatile and powerful, and yet remains accessible – useable by artists and musicians – because of the intuitive graphic interface as well as the extensively-developed documentation, online help, tutorials and examples.

> Who can benefit from it ?

Max/MSP is especially useful for those who want to go beyond what is offered by dominant commercial music software (editors, sequencers, synthesizers, plug-ins). It can be used to construct synthesis, sampling and processing “instruments” for studio use, as well as programs that run during concerts of real-time interactive computer music. In addition to its musical applications, Max is an ideal tool for multimedia projects, interactive installations, dance and theater.

Max is sustained by a broad community of users from all over the world who are continually sharing their knowledge and creating new extensions.

> What are the course’s contents ?

Session 1: for beginners August 9 to August 14, 2010

This course offers beginners a solid basis for a global understanding of Max/MSP and its practical

use, as well as many fundamental concepts of digital signal processing. We will cover such topics as: the language Max/MSP – structure, syntax and logic; recording, transformation and playback of soundfiles; processing live audio input; sound synthesis; modulation; sampling; delay line effects (echo, phasing, flanging, Karplus Strong); filtering, transposition, frequency shifting, distortion; storing and recalling parameters; managing multiple effects; gestural and algorithmic controls, etc.

Prerequisites: basic computer skills are essential. It is best to have some experience making music with audio software and/or hardware. However, the most important prerequisites are: motivation, patience, determination, and a sense of humor...

Session 2: for advanced users August 16 to August 21, 2010

Advanced techniques for confirmed Max users. We will explore such topics as: envelope following; fundamental estimation; spectral analysis; dynamic processing (limiting, gating, compression, expansion); vocoding; resonant filter banks; soundfile fragmentation; granular sampling; spectral and temporal processing with FFT analysis/resynthesis; organizing complex live-performance patches; managing polyphony; creating VST plugins; communicating between Max/MSP and other software, etc.

Prerequisites: a good knowledge and understanding of Max/MSP, based on personal, practical experience. For highly motivated participants, the first session will provide enough background to follow the second. However, the most important prerequisites are : concentration, drive, obsessiveness, precision, and a sense of humor...

NB: Both sessions will combine lecture-demonstration-explanation with collective, hands-on, practical “instrument” building.

Courses will be taught in either English or French, depending on the students' preferences.



Max/MSP 2010 Summer Courses

please fill in, cut and send to:
Musiques & Recherches
3, Place de Ransbeck B-1380 Ohain Belgium
or by fax at +32.2.351.00.94

Family Name :

First Name :

Address :

.....

Phone : E-mail:

Requested session :

- First session – beginners – August, 9 - 14
 Second session – advanced users – August 16 - 21

I will bring a laptop computer for my personal work during the course.

I will NOT bring a laptop computer for my personal work during the course.

**Note : registration will be complete
only upon receipt of payment**

> Practical matters

>> Schedule:

Session 1: from Monday, August 9 to Saturday, August 14.

Session 2: from Monday, August 16 to Saturday, August 21.

Courses take place from 10 a.m. to 1 p.m. and from 2 p.m. to 5 p.m.

Reception of the participants on the session's first day from 9:30 a.m.

Participants will have access to the classroom after class hours.

>> Price and registration:

€ 250. The payment should be received two weeks before the beginning of the session. If you pay from Belgium, please make a money transfer to account Nr 599-1580201-05. Outside Belgium, please use the following codes. IBAN: BE-096 599158020105 - BIC: CTBKBEBX. Please mention the participant's name in the communication field.

>> Hardware and software:

If possible, participants should bring a laptop computer with Max/MSP/Jitter installed. Ideally, they should also bring a midi controller (keyboard, drum pad, faders...). Upon request, a fully functional, 30-day demo version of the software will be installed on the participant's computer. For those without a laptop, a limited number of computers will be available.

>> The instructor:

Benjamin Thigpen is an active composer and performer of electroacoustic and computer music. After nearly six years as a computer music instructor at Ircam (Paris), he currently teaches at both the Conservatoire Royal de Mons (Belgium) and the Conservatorio Statale

di Cuneo (Italy). He also works intermittently as a consultant and developer for CIRM (Nice, France), for the State University of New York at Buffalo (United States), and for New Adventures in Sound Art (Toronto, Canada).

"<http://thigpen.free.fr>" <http://thigpen.free.fr>,

"<http://www.myspace.com/bnthigpen>"

<http://www.myspace.com/bnthigpen>

>> Location and directions:

Musiques & Recherches is located near Brussels (see "Contact" below). It is about a 25 min. drive from Brussels. The studio can also be reached through a combination of train and bus: from the Brussels Midi station, take the Charleroi train to the station "Braine l'Alleud"; then take bus 558, "La Hulpe" or "Genval", to the stop "Ransbeck avenir".

>> Inquiries about the courses's contents:

Benjamin Thigpen (phone: +33.6.33.62.38 98

– e-mail:

"<mailto:thigpen@u.washington.edu>"

thigpen@u.washington.edu)

>> General inquiries (accommodation, registration, payment, etc):

Musiques & Recherches ASBL

3, Place de Ransbeck B-1380 Ohain Belgium

Phone: +32.2.354.43.68

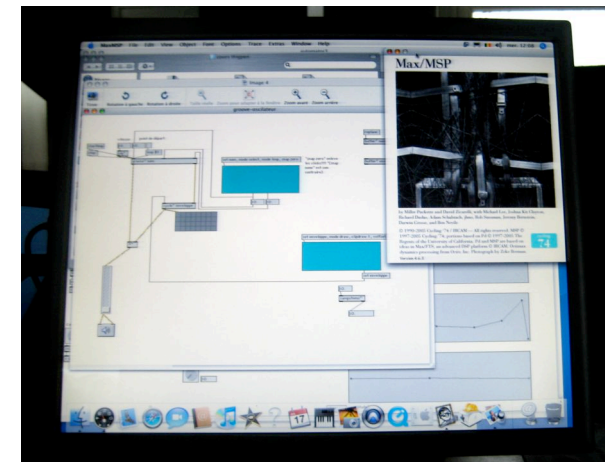
Fax: +32.2.351.00.94

<http://www.musiques-recherches.be>

musiques.recherches@skynet.be

MAX/MSP COURSES

"Max is the way to make your computer do things that reflect your individual ideas and dreams."



1st session – for beginners:
August 9 to August 14, 2010

2nd session – for advanced users:
August 16 to August 21, 2010

MUSIQUES & RECHERCHES
BELGIUM