

<http://team1.laras.isib.be/>



BRUSSELES

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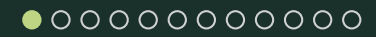
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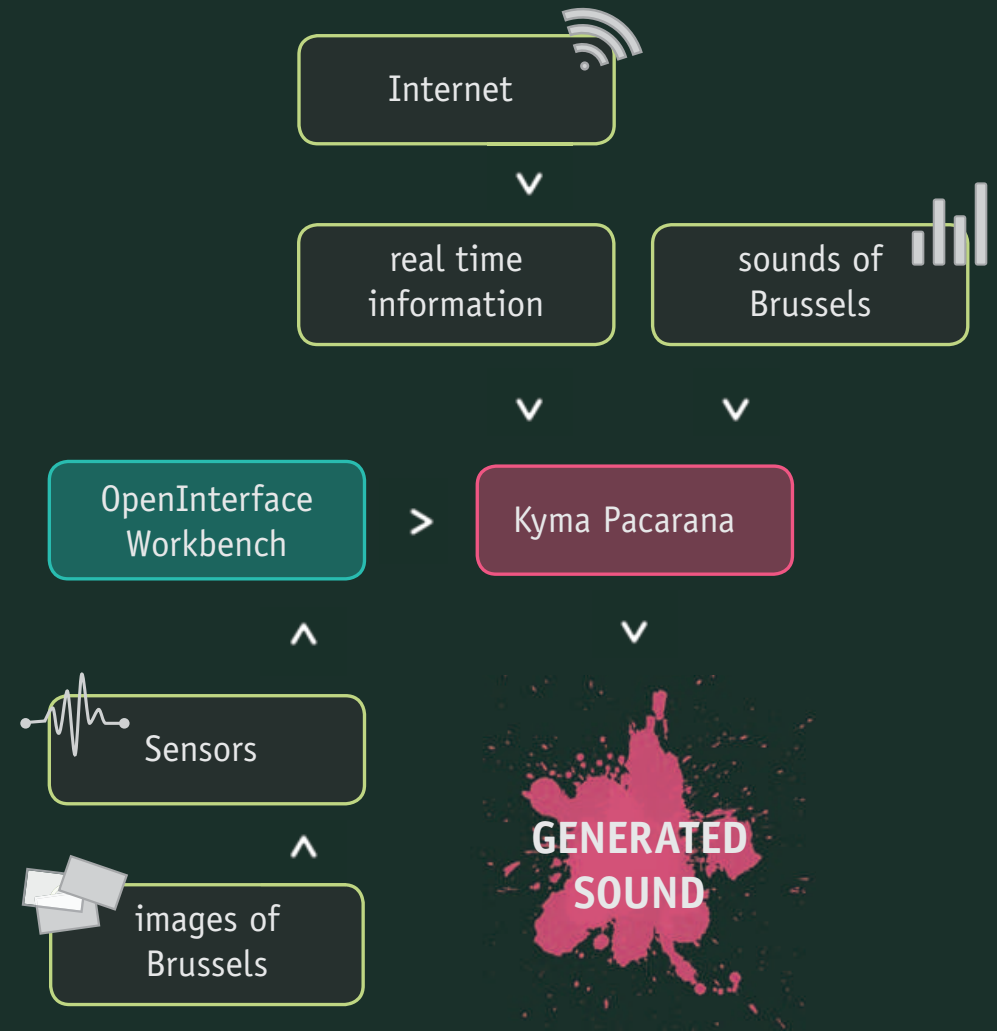
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THE CONCEPT

- different requirements for the system
 - inclusion of Brussels
 - inclusion of real time information
- different sensors used to interact with the system





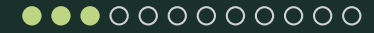
INTEGRATION OF BRUSSELS

IMAGES



Le Carillon du Mont des Arts

SOUNDS

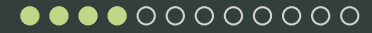


USED SENSORS

EMOTIV EPOC

- brain computer interface
- a high resolution, neuro-signal acquisition and processing wireless neuroheadset
- electric output





USED SENSORS

EMOTIV EPOC

- recognizes the user's behavior
- expressions, cognitions, affections...

movements



left



right

face expressions



blinking



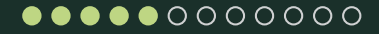
moving
eyebrows



smiling



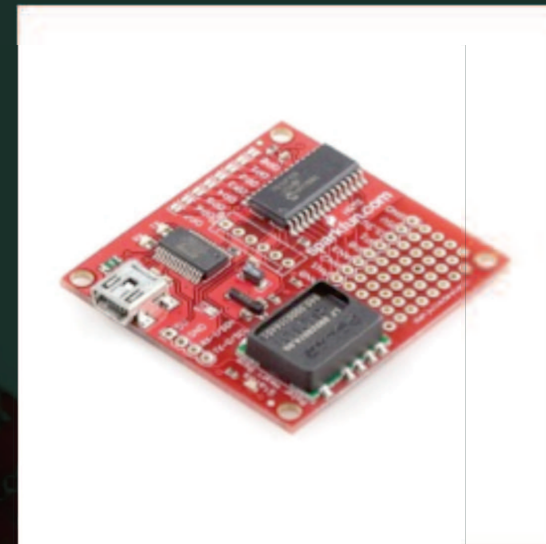
clenching
teeth



USED SENSORS

POLAR HEARTBEAT COUNTER

- average heart rate
- serial connection
- OpenInterface





OPENINTERFACE WORKBENCH

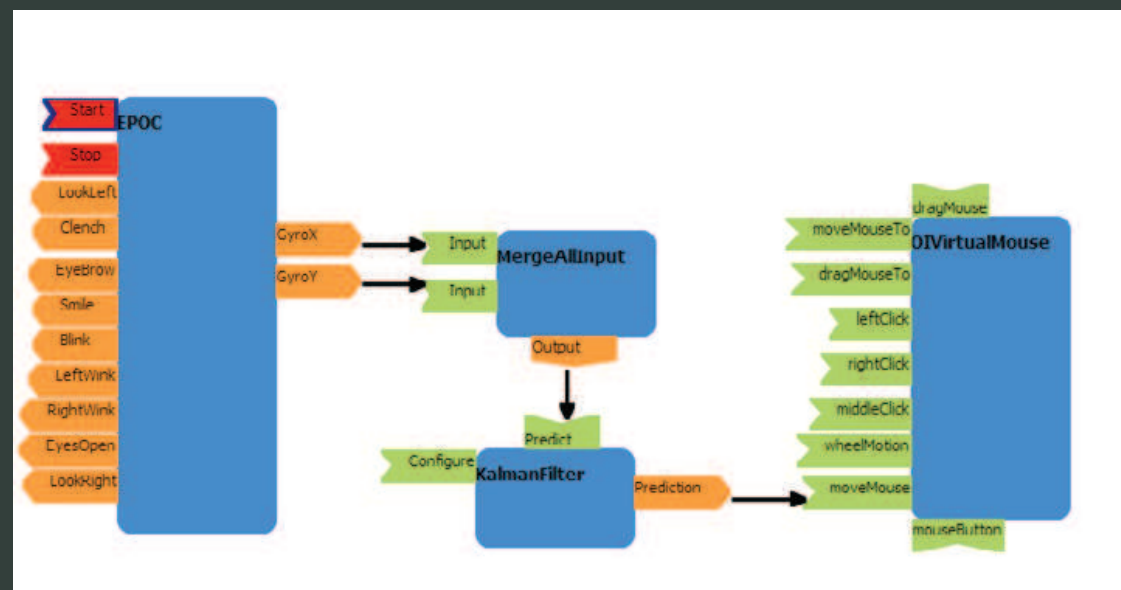
- different elements
- different programming languages
- one application





OPENINTERFACE WORKBENCH

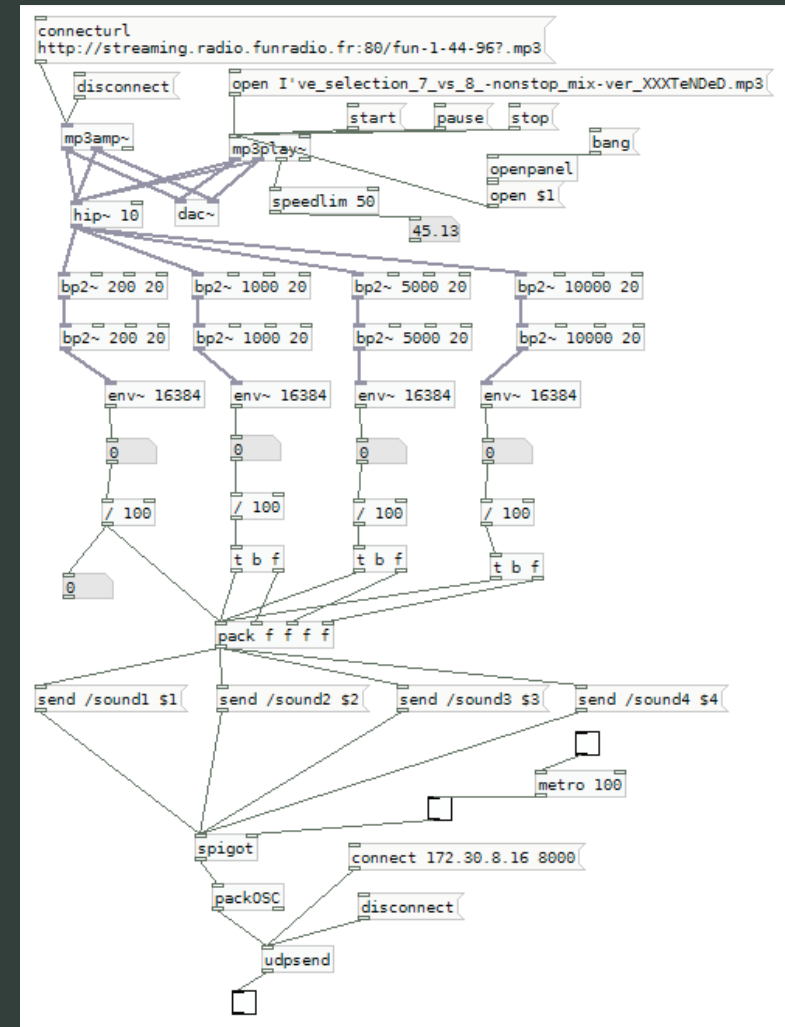
- flow code programming
- blocks with inputs and outputs
- different programming languages





REAL TIME INFORMATION

- internet radio stream
- Pure Data to catch the stream and to analyze its frequency
- the output is linked to Kyma to influence the sound





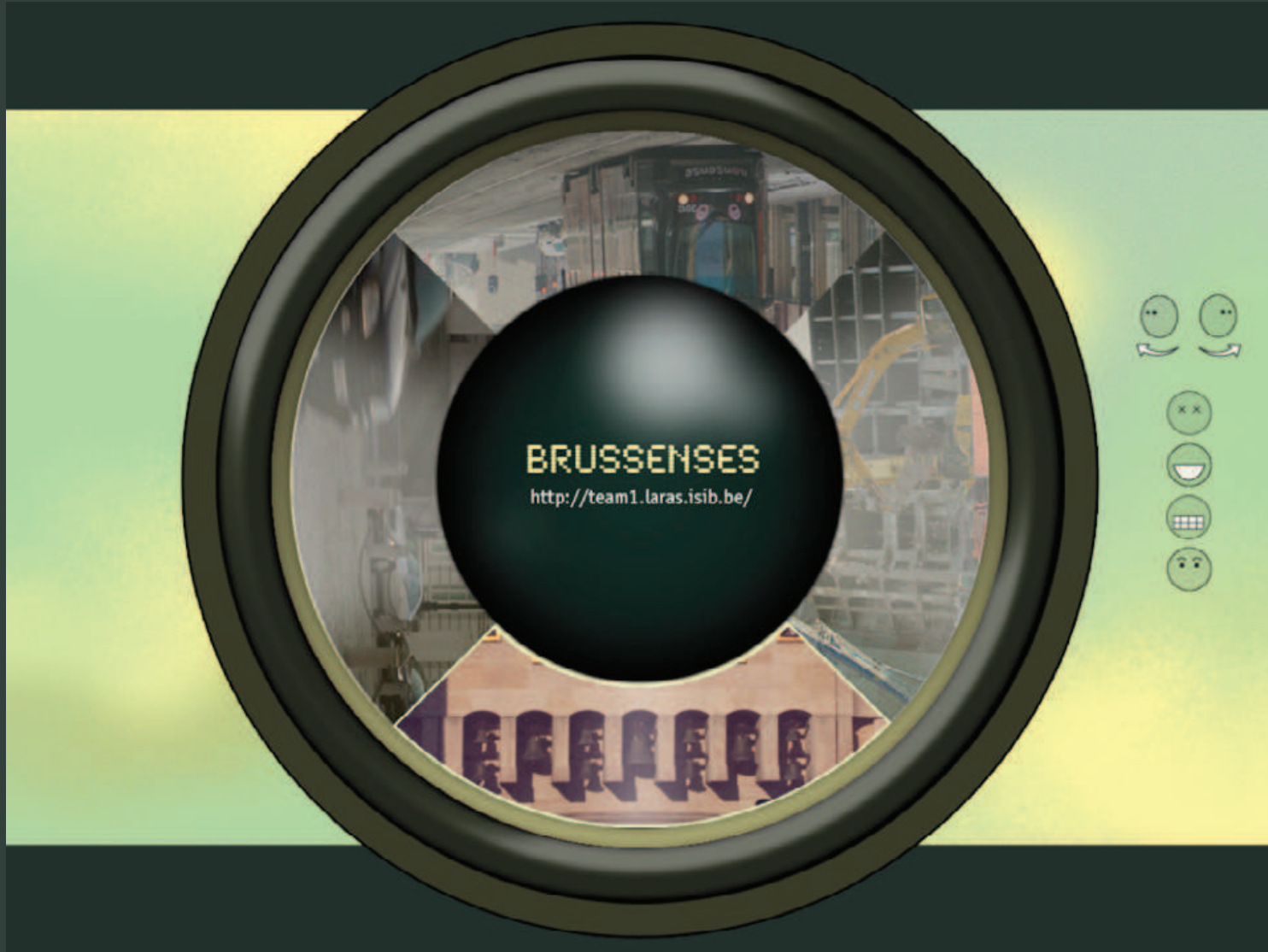
KYMA

- visual programming language for sound design
- modeling and morphing the sounds with Kyma
- the communication between the computer and Kyma is via OSC messages





DEMONSTRATION





Special THANKS to ...



THANKS FOR LISTENING

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MERCI DE VOTRE ATTENTION

DONKSCHEN FIAS ZURLOSEN

BEDANKT VOOR HET LUISTEREN

OBRIGADO PELA ATENÇÃO