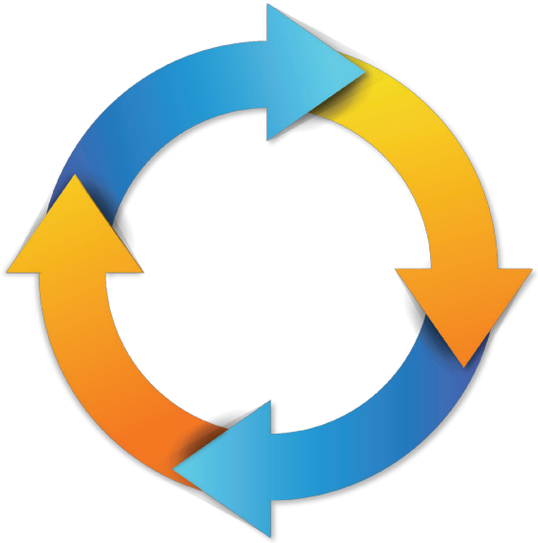
Brain Computer Music Interfacing
Software Developement
for Well-being

(I intro, II demo)



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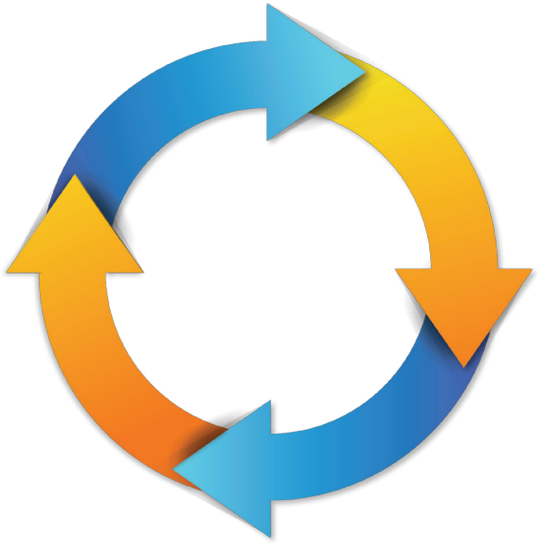

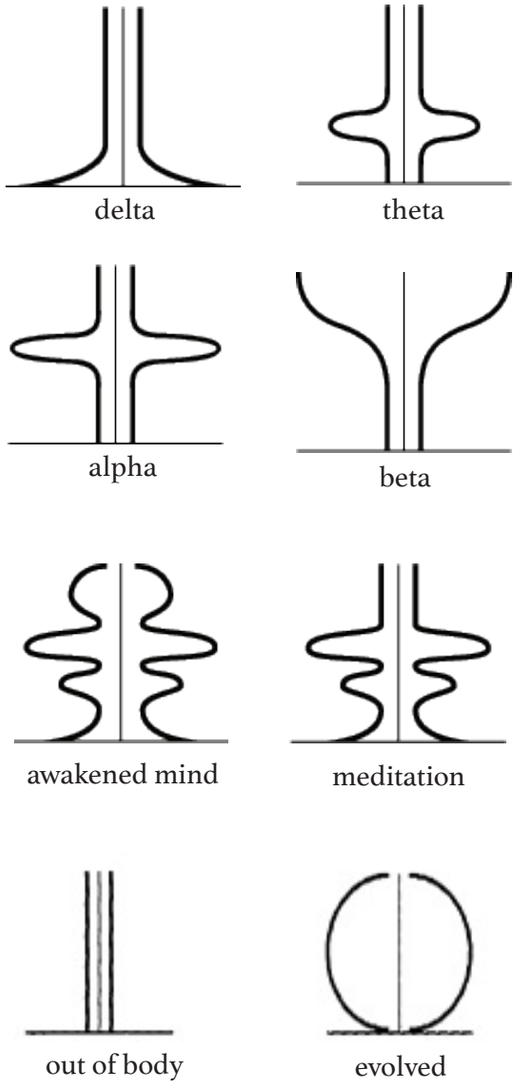

Anna Wise Brainwaves
http://annawise.com/the-work/brainwaves/

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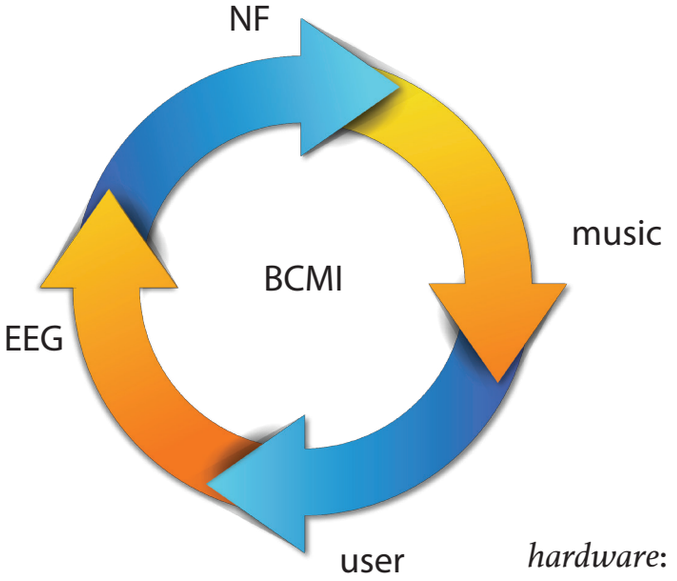

hardware:
Neurosky
+ Emotiv
+ OpenBCI

software:
SuperCollider , InScore,
MIDI to Analogue Synth
+ XCode (crossplatform)

Why Neurosky?
- easy to set up
- I didn't have to do DSP or feaure extraction (eSenses)
- therefore I can concentrate on creating a working prototype

Outcome:
1) Creative (concerts, installation)
2) Therapeutic (well-being)

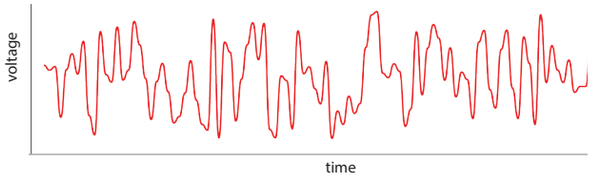

Fig 1. Raw EEG measured on user in real-time

Fig 2. Triggers on spectral data evolving music patterns

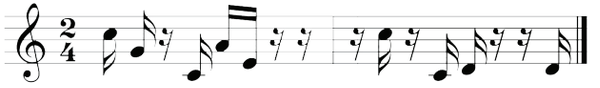

Fig 3. Music synthesised and notated digitally

Fig 4. Digital notation played by user on instrument

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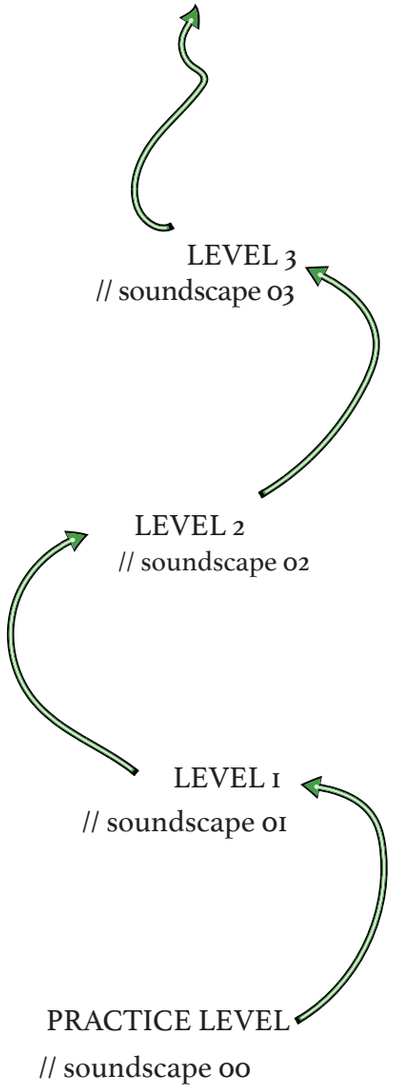

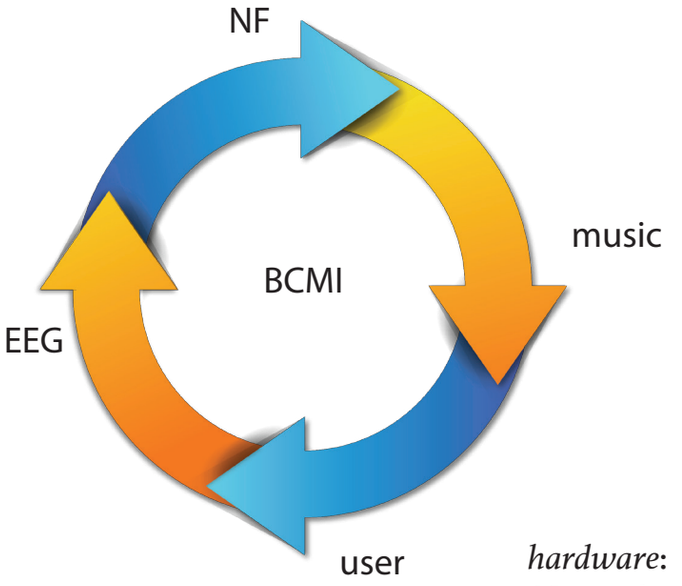

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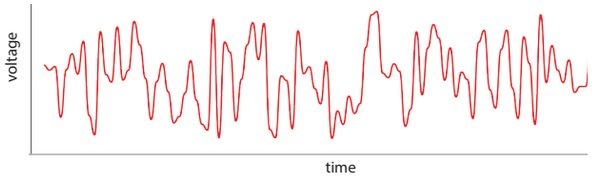

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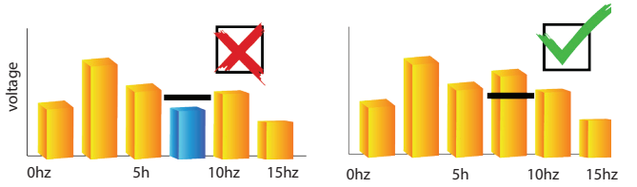

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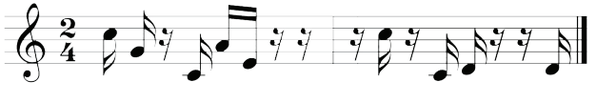

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