Healing the pain

Patterns and practices to ease transitions between competence groups
Competence groups

- research
- implementation
- patch
- control, tuning
Use case

home: dance as a side effect of music production (2008)
Competence groups

* where the problems begin *

- EPFL, LANOS: algorithmic research
- HEIG-VD, Yverdon: custom radio chip
- motilis, Lausanne: custom capture device
- Gaspard Bucher: software
- Gaspard Buma: choreography
What happened

Damn !
What’s wrong with this crap ?
In the mean time...

Are you sure this one doesn’t work?
And the rest of the team
* spends time in the cafeteria *
What went wrong?

we mixed competence groups:
1 + 1 + 1 = 50% work, 250% stress
Competence groups

- research
- implementation
- patch
- control, tuning
Research
find the best algorithms

GDIF

Dance

Implementation

OSCit

Patch
tune the setup filter, etc

SDIF + OSCit
Interfaces

- GDIF
  - easy to provide data for research
  - easy to compare different solutions
  - easy to store training data (class markers)
  - can be used as test data / benchmark data
Interfaces

- OSCit
- provides plug & play
- to the lowest level (embed)
- provides auto-documenting
- enables settings recording and restoring
Interfaces

- SDIF / json / SQL
- storage for data
- settings snapshot
- undo history
OSCit Conventions

- `/some/url <nil>`  ==> get value
  `.reply /some/url 1000`  ==> reply

- `/some/url 1500`  ==> set value
  `.reply /some/url 1000`  ==> notification

- `.list_with_type /some`  ==> meta method
  `.reply /.list_with_type /some` [[‘url’, f,f,f,s]]
  ==> reply

- `.register /some/source/cooked/... ?`  ==> get stream
  `.reply /.register /some/source` TTL
ON

recycle