Status of project and thoughts on invenio
August 4th 2011
OUR TEAM

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Previously involved people: Frédéric Gobry (KIS), Pierre Crevoisier (KIS), Thomas Guignard (SISB), Chimène Glayre (SISB) and Geneviève Freda Gueritault (SISB).
Non regularly involved: Valérie Charbonnier (SISB), Sylvie Vuilloud (SISB), Georges Iffland (SISB), Laurence Denoréaz (KIS), Patricia Plaza (KIS) and Noé Cuneo.
79'000 records

26'600 full texts ➔ 33.6%
7911 records added by 800 distinct users

651'000 visitors, 1’281’000 page views, 3’305’000 downloads

- Switzerland: 16.58%
- USA: 13.59%
- France: 11.07%
- India: 5.94%
- Germany: 5.38%
- Other: 47.44%
RECENT WORK
NEW INFRASTRUCTURE

kissrv54 - MA.B0.453

kissrv55 - IN.J.011.SRV2

Fichiers (DRBD)

Maintenance:
Read only

Slave MySQL

R/W

R/W

kissrv30 - MA.B0.453

Slave MySQL

mardi, 28 février 12
DEPLOYEMENT

• We use Puppet:
  • deploys Debian, Python, MySQL, creates /var/www/ subdirs

• We deploy through fabric:
  • invenio, curator project and other pythonic dependencies into virtualenv

  • formats, translations, static files
DEVELOPMENTS / CURATOR

- We use the framework Django:
  - Strict model-view-controller separation
  - Modern ORM
  - Real templating system
- Authentication / rights management is delegated to Invenio.
DEVELOPMENTS / INTERFACE

2010: new EPFL web design

➡️ We had to adapt every page of infoscience with respect to the graphical chart:
  • navigation schemes (menus, pagination, ...),
  • position, number and style of buttons,
  • login system
  • help documentation

http://infoscience.epfl.ch
INVENIO 1.0 RC0

- We chose to upgrade to latest invenio (previously 0.92)
- Real cool new modules / improvements:
  - new bibsched
  - new bibedit
  - multi-record editor / bibmerge

However, migration was kind of a nightmare.
PATCHES WE MAINTAIN

- Most are due to lack of separation between templates and controllers. (e.g. navtrails)
- UTF-8 problems with bibdocfile.
- Jquery inclusion
- Page construction order.
WHAT SUCKS ABOUT INVENIO TEMPLATES

• Order of calls is unclear

• Roles of functions is obscure

• Parameters are incoherent. User and language should always be available.

• Too many functions, too many parameters, looooooong functions, business logic in templates

→ Adapting any template of invenio is a terrific nightmare
I HAD A DREAM

• of an invenio version where:
  
  • a real templating system was progressively introduced (Mako, Cheetah, Jinja 2, ... django?)
  
  • Bibdocfile and search_engine were refactored (shorter, simpler)
  
  • an ORM was introduced to replace _dblayer files: code is easier to read and MUCH shorter, very little SQL is needed.