



Toulouse University 4.0

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Agenda

- University context
- Technical work and demo
 - KPresenter
 - Akonadi
 - Amarok
- Feedbacks
- Questions ?



IUP ISI context

- Toulouse, France
- Professional Master degree in computer engineering



Project context

- 6 months
- 4 fourth-year students
- ... joined by 4 third-year students
- Under 'erwin' supervision
- Several goals
 - Project management
 - Apply technical knowledge



KPresenter

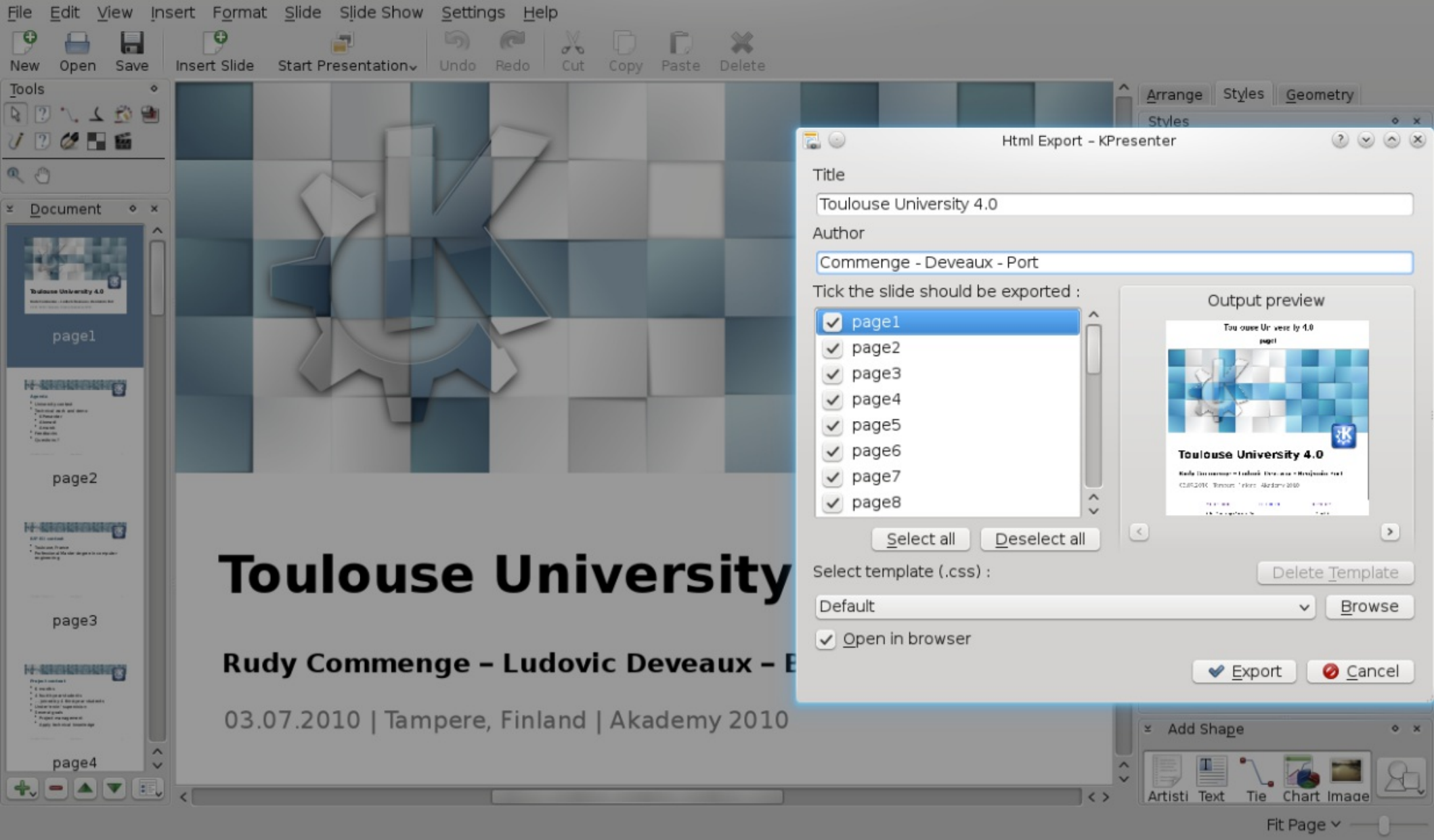


by Benjamin Port



Html export – Goal

- Allow user to export presentation as html file
- Export with custom style



Html export – How



Html export – Result

- Html export works
- We need artists to create some templates
- Currently in trunk, will be released in KOffice 2.3



3D transition – Goal

- Allow user to have 3D transition effect on KPresenter
- Allow contributors to create new 3D effect without OpenGL knowledge



3D transition – How

- Using Qt Graphics View framework
- Each slide is a QGraphicsItem



3D transition – Result

- A new easy-to-use framework
- 2 new transitions
 - Swap effect
 - Space rotation
- Currently in trunk, will be released in KOffice 2.3



And after that...

- GSoC
 - I applied for GSoC with Thorsten Zachmann as mentor:
 - Improve shape animation framework and create shape animation effects for KPresenter
 - And my proposal has been accepted



Amarok



by Ludovic Deveau



Features

Universal Plug and Play

Jamendo social features

Dynamic playlists

Upcoming Events applet

Tooltips

Similar Artists applet

Jamendo streaming

Unit tests refactoring



Do not jump the steps

- UPnP
 - A set of networking protocols
 - Share music in a local network
 - KDE technical choices not decided
 - Coherence project
 - GSoC project



Studying before making

- Jamendo social features
 - Social networking website
 - Using Jamendo API
 - Not possible to set data
- Dynamic playlists
 - Algorithms difficult to understand
 - New implementation done



Code and review

- Upcoming events applet
 - Future concerts of the current artist
 - LastFm API
- Similar artists applet
 - Discover new artists
 - LastFm API



Debugging

- Jamendo streaming
 - Broken → Bug fix
 - Too late...



Working with community

- Tooltips
 - Show informations about artists...
 - Discussion inside Amarok community



Propose more ...

- Unit tests refactoring
 - QTestLib framework
 - HTML output



Akonadi

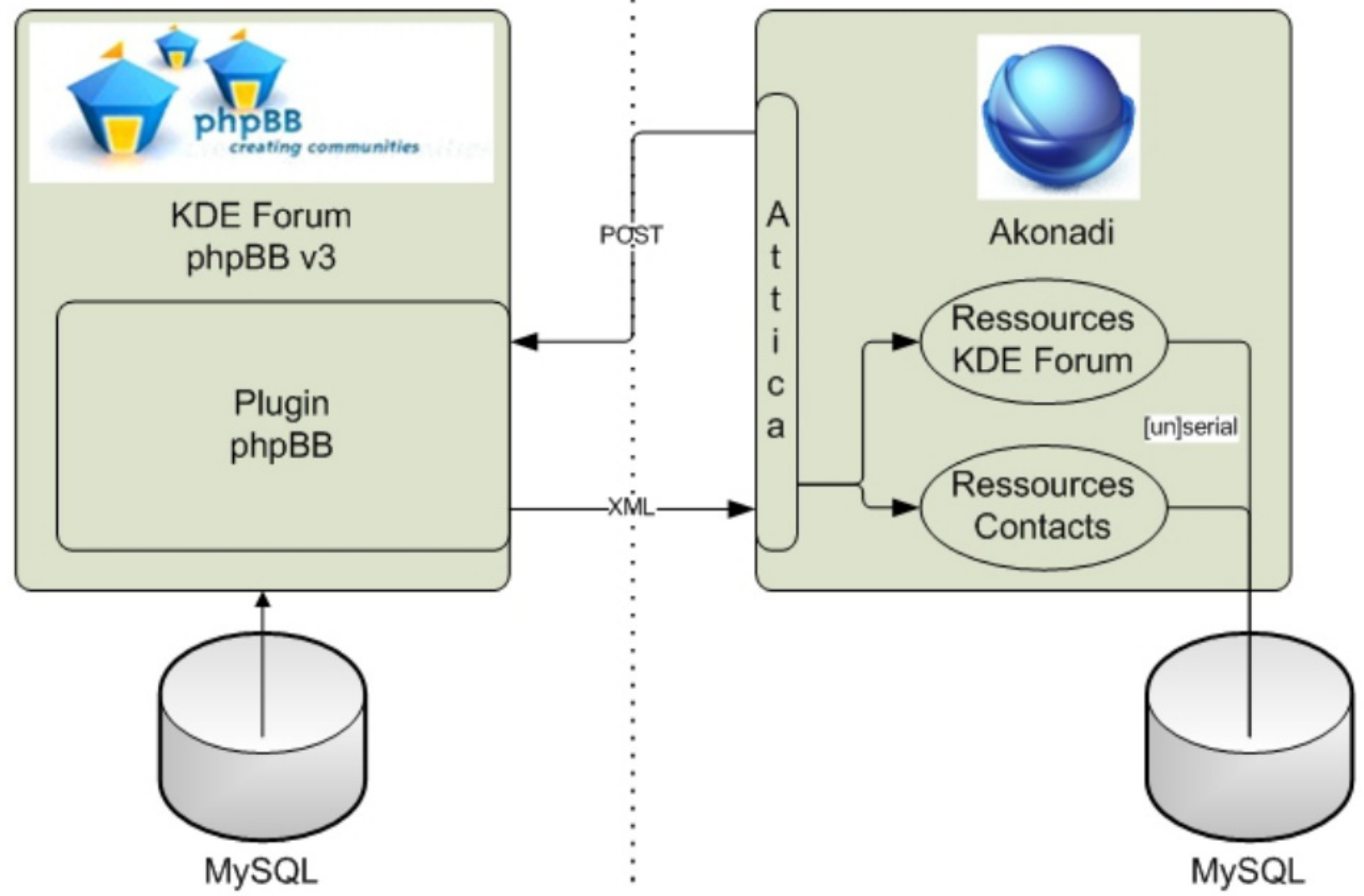


by Rudy Commenge



Context

- Project goals :
 - Use a PhpBB forum offline
 - Use our favorite software to interact with a forum
- Solution :
 - Use Akonadi
 - Create an Akonadi Resource to





Implementation

- OCS norm
 - To interact with collaborative websites
- Attica implements OCS
 - The resource is a client implementing OCS
- Plugin implements a part of OCS
 - The plugin is an OCS server build for PhpBB Forum



Features

- Features available
 - Retrieve members
 - Retrieve forums and topics
 - Retrieve personal box
 - Use SSL
- Coming soon
 - Manage read/unread flag
 - Post a new message in a forum
 -



Feedbacks



Project interests

- For students :
- Real and interesting projects,
no toy project
- International project (Product owner in
another country)
- For community
- New features on project
- May enrol new contributors and/or



Feedbacks

- Technical experiences :
 - C++, Qt, KDE, CMake, VCS
- Dynamic exchanges
 - KDE Community ready to help
- First step into KDE community
 - No, KDE Developers don't bite :)



Thanks for listening !
Questions ?