

Pedagogically sustained Adaptive LEarning
Through the exploitation of
Tacit and Explicit knowledge



« Design-in-Use » The LimSee3 trial with the CoP ePrep

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Context

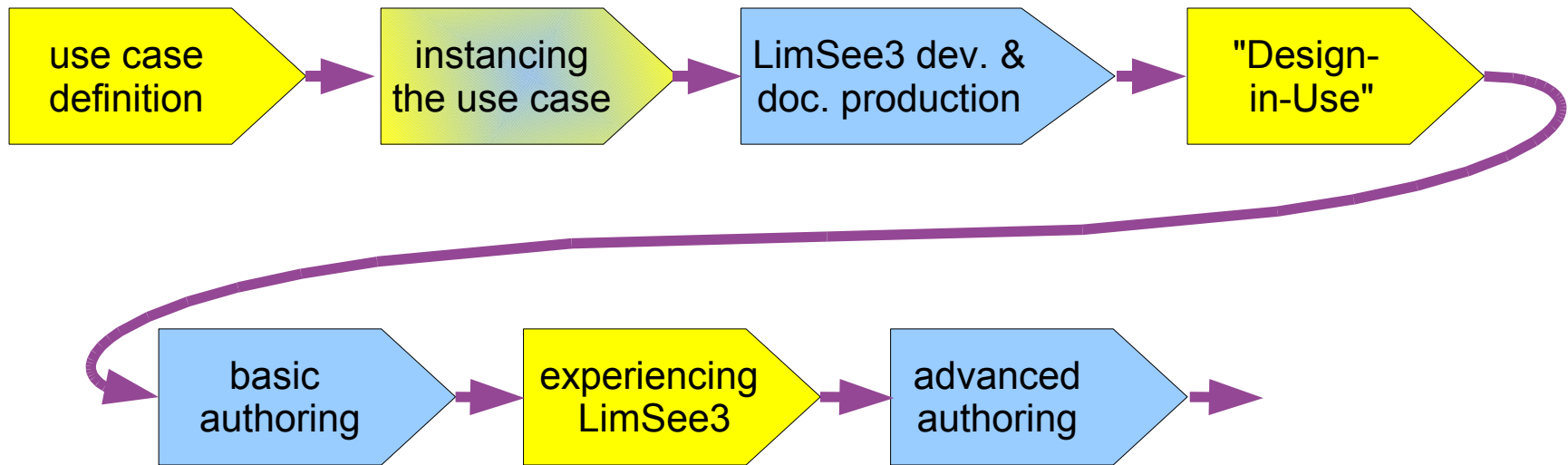
- ePrep : a CoP with multimedia content production needs

- Palette WP2: information production services
 - LimSee3: multimedia content authoring tool
 - Conception and development plan of LimSee3:
 - definition of document and authoring models
 - authoring tool development during Palette time.

- Therefore a « Design-in-Use » process was possible, thanks to:
 - A CoP mediator who mediates and identifies a scenario for the CoP
 - CoP members that accept to collaborate and provides a use case of the scenario
 - A WP1 ergonomist that contributes to the cycling conception
 - A WP2 team who drives the development



ePrep-LimSee3 "Design-in-Use" process



- Seven steps from June 2007 to February 2008
- Participants:
 - ePrep CoP members: 
 - Inria LimSee3 team: 



Step 1: Use case definition

- Pedagogical needs of an History teacher:
 - Lectures, but no handbooks for the students. Computer helps for images and sound, especially in art and cultural history.
- Very much to do and not very much time to do it.
 - How to export some lectures by keeping the essence of teaching ?
 - My interest in an integrating software: a happy encounter with the LimSee project: ePrep, the CoP of CPGE-Teacher and the INRIA Scientific Team
- Customizing a lecture for LimSee3:
 - Leaning on:
 - A previous lecture on art styles and streams in French XIXth century's painting
 - European history research on cultural history of World War I, leading to a virtual exhibition under the patronage of the UNESCO (Art of the first World War)
 - Pedagogical targets: demonstrate the use of paintings as sources for understanding the impact of World War I on the European population and the difference between « art history » and « use of art by historians »
- Meeting the Inria Team on October 17th.

Step 2: Instancing the use case

instancing
the use case

- both the ePrep CoP members and the Inria LimSee3 team are involved in this step
- process:
 - register a course
 - specify the expected documents
 - identify the authoring steps
- media stuff given by the teacher:
 - slides with painting photos
 - texts associated to the photos
 - audio and video of the course
 - audio for introducing the multimedia course



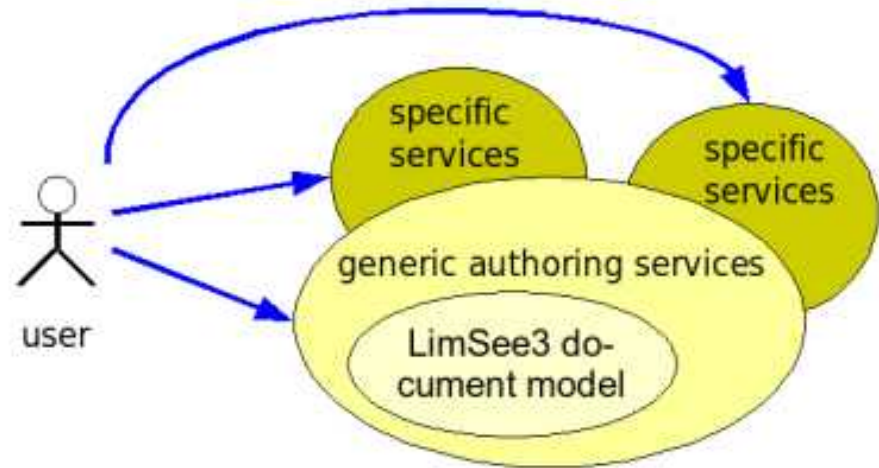
Step 3: LimSee3 development & multimedia document production

LimSee3 dev. & doc. production



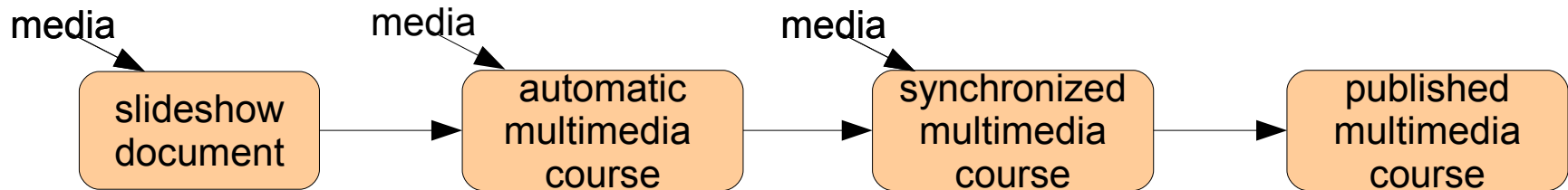
- LimSee3 development:

- LimSee3 generic services
- document template definition for the ePrep scenario
- authoring services and interface for the templates



- Document production: two steps

- slideshow (re)-edition in LimSee3
- multimedia course:
 - automatic generation from the slideshow document
 - edition services for adapting the content and the synchronization
 - export in **SMIL** for publication

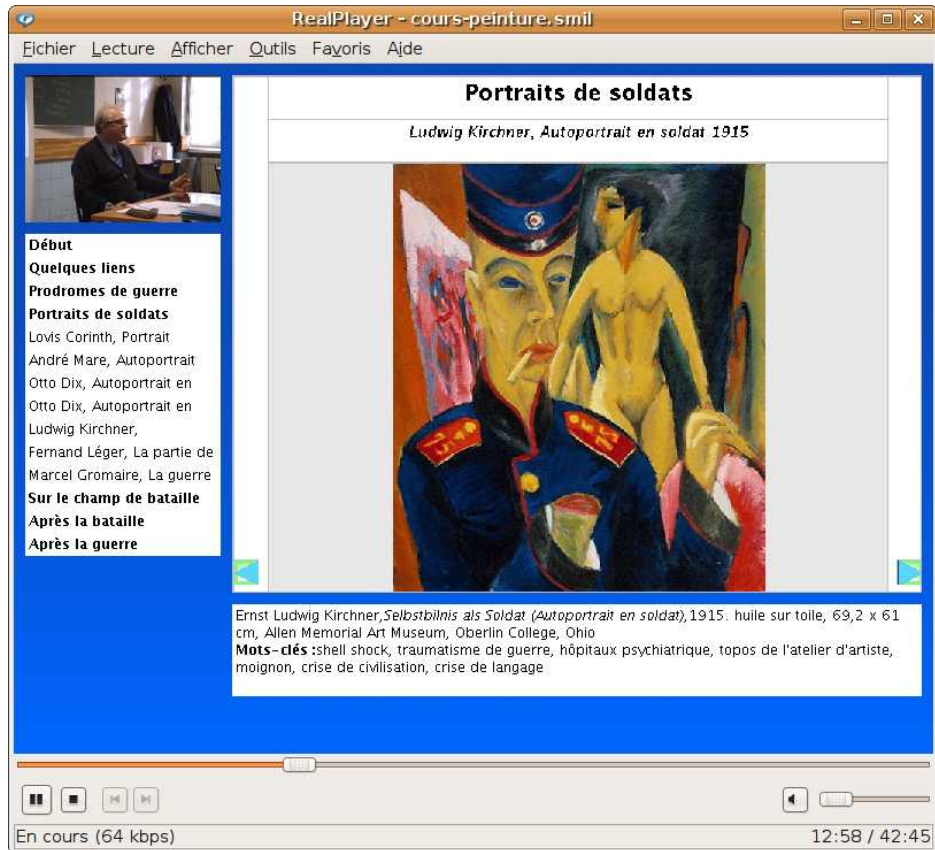




"Design-in-Use"

Step 4: "Design-in-Use"

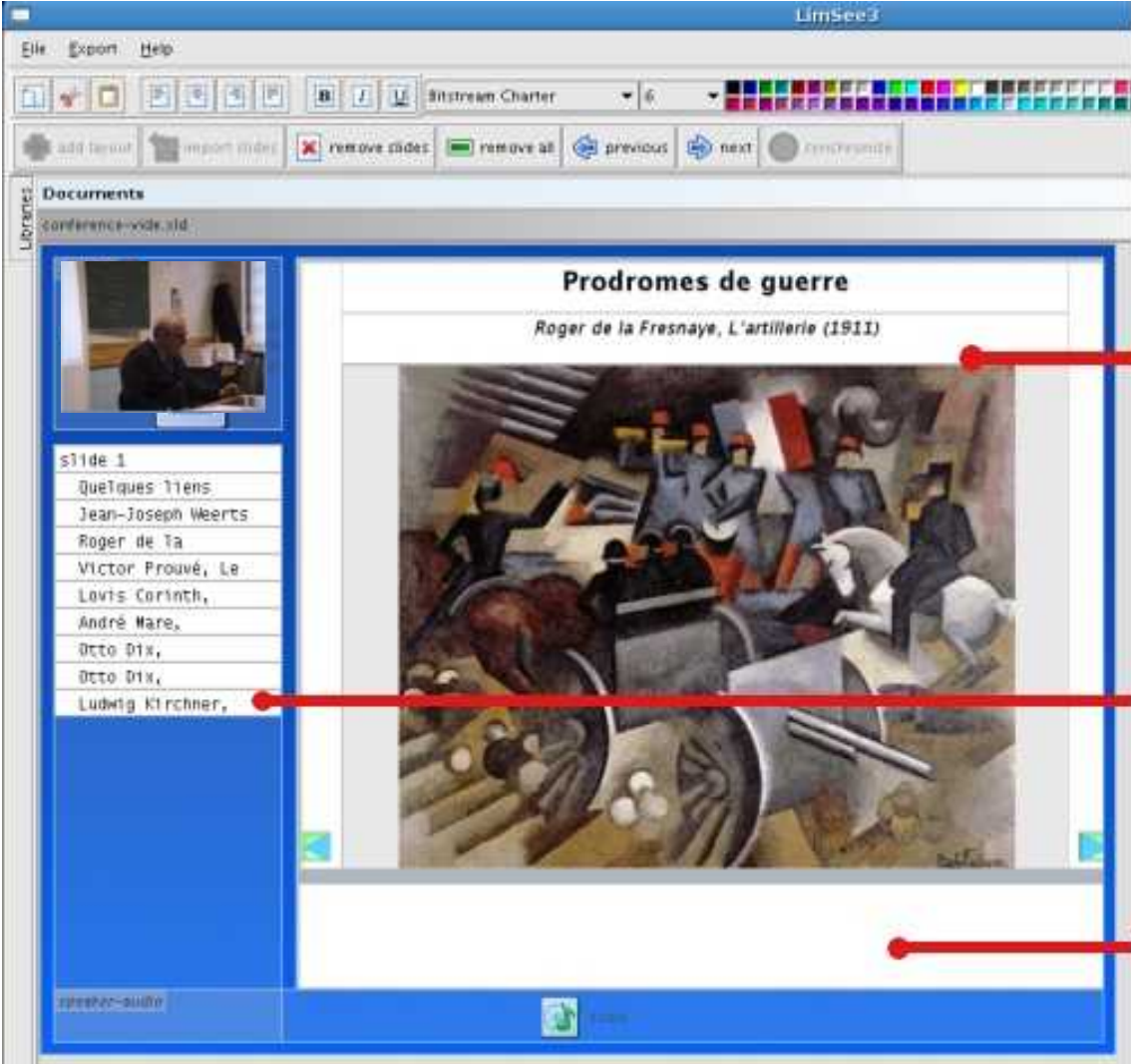
- Meeting with the Scientific Team in Lyon (November 2007, the 5th):
 - Discovering my lecture “embedded” in LimSee3 and available as a web multimedia document played on a SMIL player.
- First reactions:
 - Video is here useless,
 - audio is necessary,
 - slides are central
- New needs:
 - LimSee3 beyond the “simple lecture”,
 - keywords addition possibilities,
 - re-use and enrichment inside the CoP,
 - easier synchronization between audio and slides



Step 5: Basic instance authoring

basic authoring

- Towards a first usable version of LimSee3:
 - taking into account ePrep user demands
 - ergonomic inputs (another participative-design cycle)
 - LimSee3 V0.7



Imported slides

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Annotation area



Step 6: Experiencing LimSee3

- Tutorial for ePrep CoP members (January 2008, 24th)
 - 7/8 attendees
 - a complete scenario experienced by the attendees
- Discovering the improvements made since November
- New needs appearing among the CoP members:
 - Linux, Windows and Mac users
 - User-friendlier interface
 - better instructions for use, especially for teachers in literary subjects, are necessary.





Step 7: Advanced authoring services

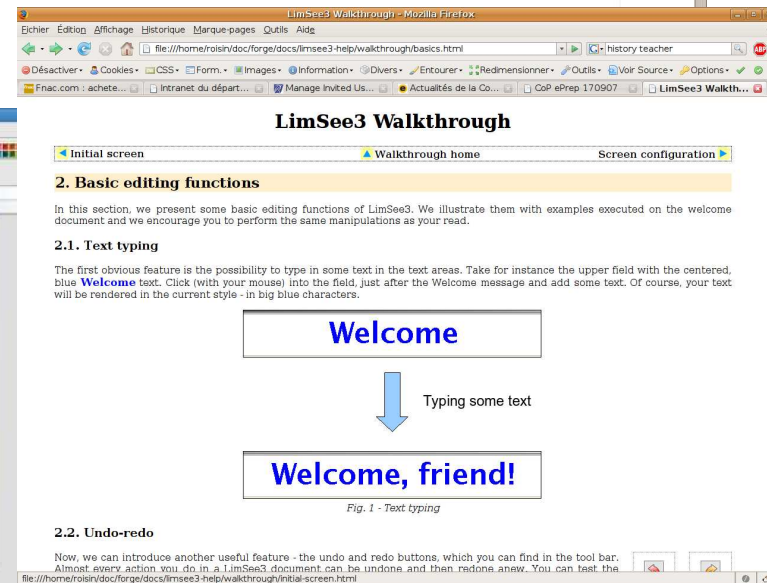
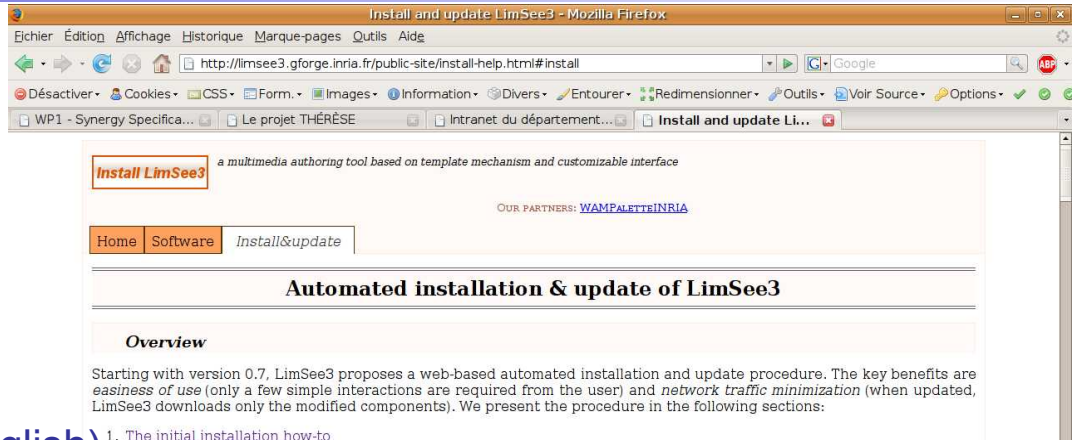
advanced authoring

■ Towards a first stable version of LimSee3:

- simplified install procedure
- welcome document
- multilingual tool (French, English)
- time editing services
- LimSee3 V1.0

■ towards new versions:

- slideshow authoring
- graphics authoring



Step 7: Advanced authoring services

advanced
authoring

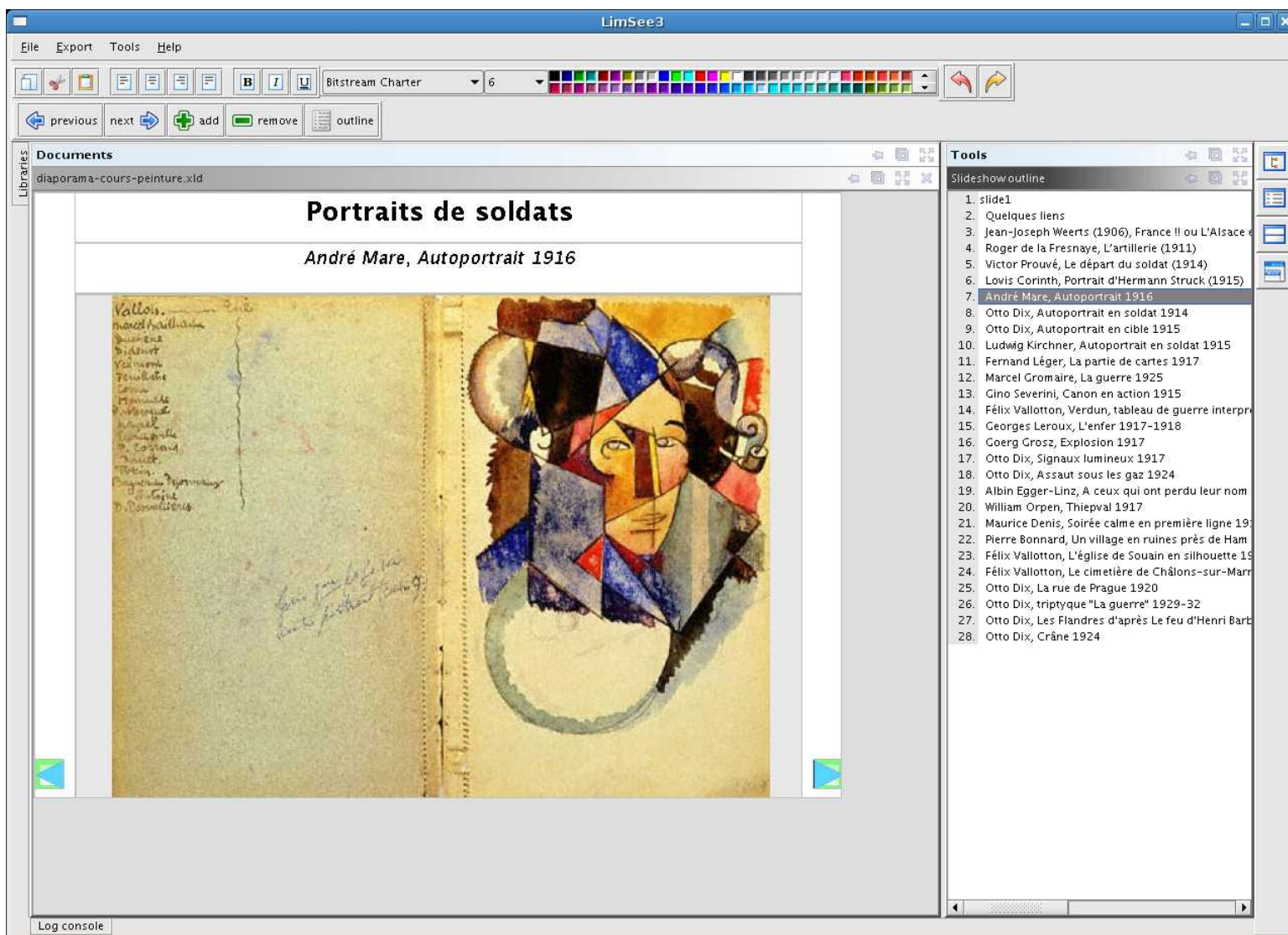


The screenshot shows the LimSee3 software interface. The main window displays a slide titled "Portraits de soldats" with the subtitle "Lovis Corinth, Portrait d'Hermann Struck (1915)". Below the text is a portrait of a man in a military uniform. The interface includes a menu bar (File, Export, Tools, Help), a toolbar with various icons, and a "Documents" panel on the left. At the bottom, there is a "Timeline" section with a table of slide content.

slide1	slide2	slide3	slide4	slide5	slide6	slide7	slide8
background	background	background	background	background	background	background	background
title	title	title	title	title	title	title	title
previous	main	title2	title2	title2	title2	title2	title2
next	previous	main	main	main	main	main	main
	next	previous	previous	previous	previous	previous	previous
		next	next	next	next	next	next

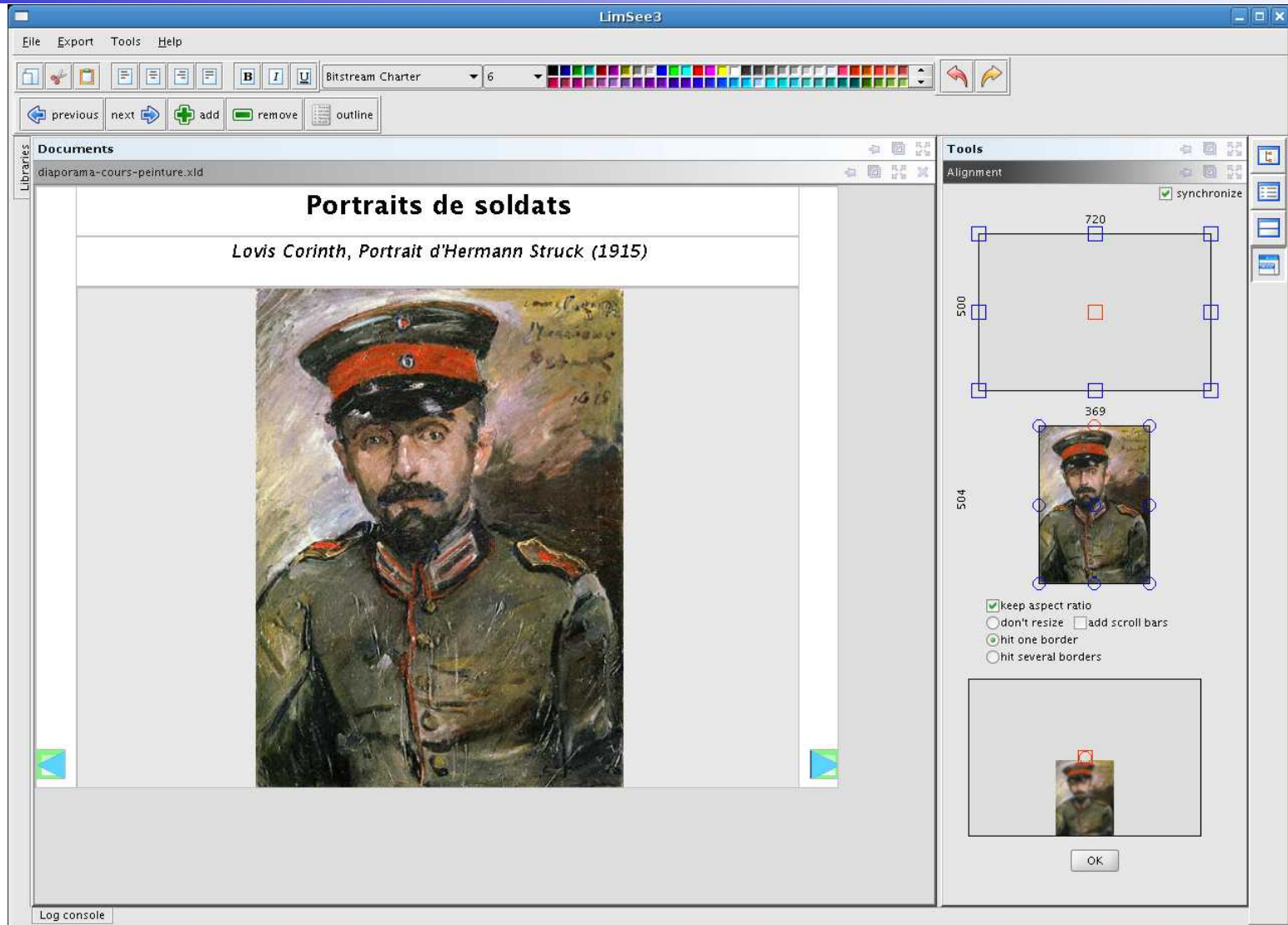
Step 7+: Slideshow authoring services

advanced
authoring



Step 7+: Graphics authoring services

advanced
authoring





Conclusion

- As for the teacher:
 - Software's presentation in May on a CPGE-Teacher Meeting (4th ePrep Colloquium in Gif-sur-Yvette)
 - Integration in professional training courses (IUFM of Paris)
 - Production of “LimSee3-transferred” lectures freeing time for new work (Lycée Henri IV)
 - Ready for new cooperation!

- From the LimSee3 team:
 - Participative design methodology implies:
 - a good understanding between the participants
 - frequent meetings including “in situ” observation
 - adequate software architecture and development plans: LimSee3 a good candidate!
 - Implementation plans in the next IP3 include:
 - new developments for the next design cycle
 - generalisation of the scenario with the ePrep CoP and with new ones.