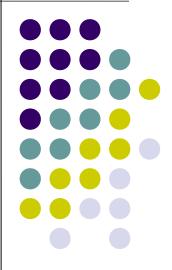
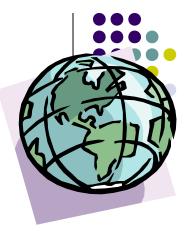
Travaux d'Etudes et Recherche: Genie Logiciel

Apprendre techniques travaux collaboratives



About: Collaborative Work and Tools



- Working in groups changes the work flow in many ways:
 - ... documentation is necessary (teams change, newcomers, leavers, team structuring)
 - ... all work has to be versioned (if not, communication is doomed)
 - mailing versions comes to a limit

About: Collaborative Work and Tools



single fighter style:



collaborative style:

Merge remote-tracking branch 'refs/remotes/origin/master' Some changes to improve clarity and readability of chapter 1 Add budget requirements for Delft and GU for WP1 Small fixes to Agda WP Fix typo Add information on Delft site fix typos Merge branch 'master' of github.com:EUProofInfra/EUProofInfra Merge branch 'master' of github.com:EUProofInfra/EUProofInfra fix callname and callid WP4: list of people no message snippeted

Problems of Group Work

- ... separate work force into work groups
- ... defined clear tasks
 - organisational (who is responsible for what?)
 - documentation ("based on" ? deliverable ...)
 - technical (interfaces: import, export, ...)
- ... define (technical) procedures to combine results
 - groupware for joint editing
 - version control a la svn and git
- ... control quality of combined results
- reviews, machine-checked yalidations, tests





(Technical) Solutions

- Groupware
 - Jointly Editing Texts (low or high quality)
 - Jointly Developing Sources
 - version management
 - config management
 - task and bug tracking

Jointly Managing Certifications

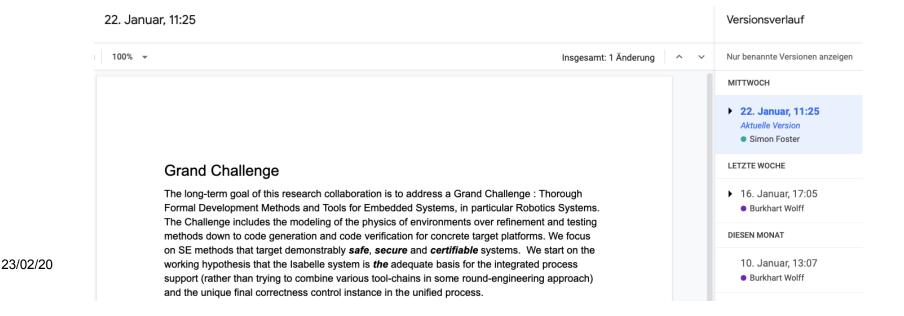


- Simple Collaborative Editors as Cloud Solution
 - (fairly) elementary quality,
 - support for text structure, pictures, tables, links
 - can be problematic wrt. intellectual property (Cloud!)
 - usually a "fast and fun" solution
 - Concrete:

23/02/20

- google doc
- Microsoft Office Online
- Dropbox Paper
- Cryptpad
- Nuclino
- Etherpad:
- Alternatives: see also https://beebom.com/google-docs-alternatives/

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- Wiki's, Messengers, ...
 - wiki (hawaien: "vite")
 - In a typical wiki, text is written using a simplified markup language and often edited with the help of a rich-text editor.
 - typical wiki language: **markdown**, configurable with style sheets.

```
Editing IsabelleClub.20160210Meeting
```

```
by(auto simp: valid SE def bind SE def assert SE def)
aed
(:endbrush:)
(:divend:)
On note ici l'usage de la règle @@List.rev induct@@ qui permet de raisonner sur un invariant d'exécution. Le théorème
prouve que l'état de régulation est inatteignable sans l'occurence de l'input cruise .
* Chantal propose d'utiliser les relations pour formaliser la fonction de transition. Il suffit ensuite de générer la
fermeture transitive pour raisonner sur les chemins d'exécution.
(:brush=isabelle:)
definition step' :: "inputs ⇒ cruise state rel"
where
          "step' x = {(\sigma,\sigma'). step x \sigma = Some((), \sigma') }"
definition steps' where "steps' ≡ step' inputs.on U step' off U step' brake U step' standby "
find theorems name: "induct" " **"
theorem "(σι0,σ) € (steps')1* ⇒ ¬ cruise state.cruise σ"
apply(erule rtrancl.induct)
(:endbrush:)
Summary:
```

23/02/20



- Wiki's, Messengers, ...
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On note ici l'usage de la règle List.rev_induct qui permet de raisonner sur un invariant d'exécution. est inatteignable sans l'occurence de l'input cruise.

 Chantal propose d'utiliser les relations pour formaliser la fonction de transition. Il suffit ensuite de géné sur les chemins d'exécution.

```
1 definition step' :: "inputs ⇒ cruise_state rel"
2 where "step' x = {(σ,σ'). step x σ = Some((), σ') }"
3 definition steps' where "steps' ≡ step' inputs.on U step' off U step' brak
6 find_theorems name:"induct" "_*"
7 theorem "(σ<sub>0</sub>,σ) € (steps')* ⇒ ¬ cruise_state.cruise σ"
8 apply(erule rtrancl.induct)
```

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- Scientific quality texts usually require LaTeX
- Advantage: Text-based format, programmable
- Advantage: Large Libraries
- Inconvenience: One has to invest into learning it.
- Also available as Cloud-service:
 - Overleaf (www.overleaf.com)



🕈 Menu 🕈	Springer Lecture Notes in Computer Science	🔎 Review 🍟 Share 🔇 Submit 🏷 Hi	istory									
bet /	🛍 💽 Source 💼 Rich Text	🕈 😂 Recompile 🕞 🖹 📥										
🖿 fig1.eps	1 S This is samplepaper.tex, a sample chapter demonstrating the											
🖹 history.txt	2 % LLNCS macro package for Springer Computer Science proceedings; 3 % Version 2.20 of 2017/10/04	1 First Section										
Lincs.cls		1.1 A Subsection Sample										
	5 \documentclass[runningheads]{llncs} 6 %	Please note that the first paragraph of a section or subsection is not indented. The first paragraph that follows a table, figure, equation etc. does not need an										
Ilncsdoc.pdf	7 \usepackage{graphicx}	indent, either.										
🗎 readme.txt	8 % Used for displaying a sample figure. If possible, figure files should 9 % be included in EPS format.	Subsequent paragraphs, however, are indented.										
samplepaper.tex		Sample Heading (Third Level) Only two levels of headings should be num- bered. Lower level headings remain unnumbered; they are formatted as run-in										
🖿 splncs04.bst	11 % If you use the hyperref package, please uncomment the following line 12 % to display URLs in blue roman font according to <u>Springer's eBook</u> style:	headings.										
	<pre>13 % \renewcommand\UrlFont{\color{blue}\rmfamily} 14</pre>	Sample Heading (Fourth Level) The contribution should contain no more than										
	14 15 - \begin{document}	four levels of headings. Table 1 gives a summary of all heading levels.										
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	21 % an abbreviated paper title here	2nd-level heading 2.1 Printing Area 10 point, bold 3rd-level heading Run-in Heading in Bold. Text follows 10 point, bold										
	22 %	4th-level heading Lowest Level Heading. Text follows 10 point, italic										
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	25 Third Author\inst{3}\orcidID{22223333-4444-5555}}											
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	28 % First names are abbreviated in the running head.											
	29 % If there are more than two authors, 'et al.' is used.											
	30 % 31 Princeton University, Princeton NJ 08544, USA \and											
	32 Springer Heidelberg, Tiergartenstr. 17, 69121 Heidelberg, Germany											
	<pre>33 \email{lncs@springer.com}\ 34 \url{http://www.springer.com/gp/computer-science/lncs} \and</pre>											
	35 ABC Institute, Rupert-Karls-University Heidelberg, Heidelberg, Germany\\											
	<pre>36 \email{\{abc,lncs\}@uni-heidelberg.de}}</pre>											
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	40 - \begin{abstract} 41 The abstract should briefly summarize the contents of the paper in	Displayed equations are centered and set on a separate line.										
	42 15250 words.	x + y = z (1)										
	43	Please try to avoid rasterized images for line-art diagrams and schemas. When-										
	<pre>44 \keywords{First keyword \and Second keyword \and Another keyword.} 45 \end{abstract}</pre>	ever possible, use vector graphics instead (see Fig. 1).										
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	47 % 48 %	45 Data A										
	49 - \section{First Section}	35 - Data B										
	50 - \subsection{A Subsection Sample}	30 - 25 -										
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	53 equation etc. does not need an indent, either.	10										
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	57 - \subsubsection{Sample Heading (Third Level)} Only two levels of	Fig. 1. A figure caption is always placed below the illustration. Please note that short captions are centered, while long ones are justified by the macro package automatically.										
	58 headings should be numbered. Lower level headings remain unnumbered; 59 they are formatted as run-in headings.	in the second										
	60	Theorem 1. This is a sample theorem. The run-in heading is set in bold, while										
	61- \paragraph{Sample Heading (Fourth Level)} 62 The contribution should contain no more than four levels of	the following text appears in italics. Definitions, lemmas, propositions, and corol- laries are styled the same way.										
	63 headings. Table~\ref{tabl} gives a summary of all heading levels.	Proof. Proofs, examples, and remarks have the initial word in italics, while the										
	64	following text appears in normal font.										

•

System Development



- Based on Version-Management Systems
 - svn, mercurial, git
 - Cloud-solutions: github, gitlab.
 - manages files and file-trees of different type
 - merges on file-trees and textual files
 - can be combined with programmed validations and test procedures
 - de-facto standard for industrial and open-source projects
 - comes with wiki's and bugtrackers.

System Development



Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.



Ē	EUProof	Infra / EUPro	ofinfra					O Watch - 4			🖈 Star	3	∛ Fork	1
\diamond	> Code	Issues 0	1) Pull requests 0	Actions	Projects 0	🗉 Wiki	C Sec	urity	ılı Insi	ights	6			

European e-Infrastructure on Formal Proofs

🕞 131 commits	ဖို 1 branch	🗇 0 packages	♡ 0 releases	🎎 11 contributors						
Branch: master - New pull reques	t state	Publish your packages	e Upload files	Find file Clone or download -						
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