

# Academic Skills in Software Engineering (ASiSE)

## Writing Preparation

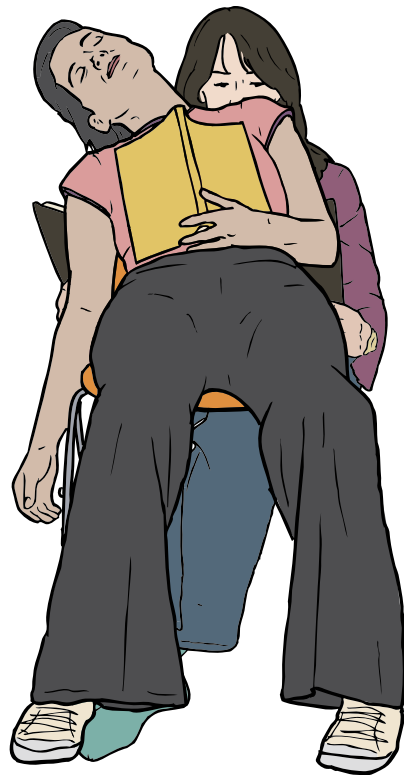
Exercise

Tuesday, 5. DS, APB/E007

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## Reading



## Writing



## Organizing



Images from OpenClipart.org (Creative Commons by Steve Lambert)

- 1) Create a **Classification Scheme** for your related work or survey.
- 2) Classify at least 5 papers wrt. this **Classification Scheme**.
- 3) Create a **comparison table** and add it to your paper.



## Common Tasks

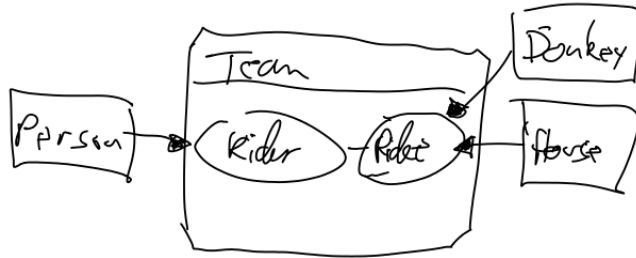
- Structuring paper
  - Define chapters, sections, subsections
  - Pick *comprehensive* headings
- Prepare writing
  - Download template style
  - Setup latex document
  - Transfer *Title, Author, Abstract, and Structure*
  - Collect and include artifacts  
*images, tables, listings*



- (Preferably) create your paper with LaTeX<sup>1</sup>
  - Use an IDE for Latex  
(Linux: Kile, Windows: TexnicCenter)
  - Install a LaTeX distribution  
(Linux: texlive, Windows: miktex)
- Use the ACM SIGPLAN Conference Format
  - Hints and downloads from ACM website<sup>2</sup>
  - Follow the author guidelines
- Manage your references with BibTex<sup>3</sup>
  - Collect your references in bib file
  - Retrieve BibTex entries from, e.g., Google Scholar<sup>4</sup>
  - Toolsupport: Mendeley, Zotero, JabRef, ...

- 1) [www.latex-project.org](http://www.latex-project.org)
- 2) <http://www.sigplan.org/Resources/Author/>
- 3) [www.bibtex.org](http://www.bibtex.org)
- 4) [scholar.google.de](http://scholar.google.de)

## Include Artifacts Images



- Start with sketches, low resolution images
- Later create scalable vector images (*time consuming*)

## Tables

Feature	Loewick 2002	Generic Role Model 2002	ORM 2 2005	SCARAGO Model 2007	Metamodel for Roles 2009	INM 2009	UML (m Scala) 2003	Object-DMU 2012	Helena Approach 2014	Simulation 2010	OT/A 2005	Ravn 2006	Power-Java 2006	Bumer 2007	NextEd 2009	NextStage 2012
16	■	□	□	■	■	■	□	■	□	□	□	□	□	■	□	□
17	□	□	□	■	□	□	□	□	□	□	□	□	□	□	□	□
18	□	□	■	□	□	□	□	□	□	□	■	□	□	■	■	□
19	■	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■
20	□	□	□	■	□	□	□	□	□	□	□	□	□	□	□	□
21	□	□	□	■	□	■	■	■	■	■	■	■	■	■	■	■
22	□	□	■	□	□	□	□	□	□	□	■	■	■	■	■	■
23	□	□	□	■	□	□	□	□	□	□	■	■	■	■	■	■
24	□	□	□	■	□	□	□	□	□	□	■	■	■	■	■	■
25	□	□	□	■	□	□	□	□	□	□	■	■	■	■	■	■
26	□	□	■	□	□	□	□	□	□	□	■	■	■	■	■	■
	Modeling Languages								Programming Languages							

■: yes, ■: possible, □: no, ∅: not applicable

- Use generator for latex tables
- Refine/optimize table later

## Listings

```

1 Start Inheritance (Role_Inheritance) when
2   IsSourceType(RoleType);
3 Add Inheritance (Role_Inheritance) when
4   IsSourceType(RoleType) and IsTargetType(RoleType) and
5   SourceEqualsTargetType();
6 Create Inheritance (Role_Inheritance) when true;
  
```

- Start with source code snippets
- Later remove all unnecessary statements

- 1) Create the document following the *ACM SIGPLAN Conference Format*.
- 2) Add **title**, **name(s)** and **abstract** to the document.
- 3) Transfer and revise the **outline** to your document,  
including *sections and subsections*
- 4) Include sketches of artifacts,  
including *images, tables, and listings*





# ASiSE Organization

