

Project report (Group 1)

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University of Basel
Seminar: Modern Human Machine Interaction (MHMI)
Autumn Semester 2019

Report Requirements

This is a brief overview of the requirements on the Seminar: Modern Human Machine Interaction and some guidelines for the report.

Deliverables

You are expected to hand-in the following items on ADAM until **Tuesday, 28th January 2020 23:59**:

- This **report**, as PDF and the complete sources of your report in the same structure as distributed as a ZIP archive
- A 30 second to 1 minute **video**, showcasing your project and its capabilities
- Your **slides** for the final presentation on January, 30 2020. You will have max. 15 minutes to present your project (you are allowed to use less than the full 15 minutes) and there will be 5-10 minutes of Q&A following your presentation

Structure

The sections in this template are already a guideline for the structure of your report. You are allowed to change the titles. However, please make sure that the content outlined below is included in your report.

Introduction Why is your topic important / interesting (how is it related to the topic of the seminar / existing research projects), what specific goal(s) did your project have and how did you implement them. The introduction should give a brief and relevant overview of the topic and your project and already indicate to the reader the results of your project.

Concepts Describe and justify theoretical concepts / technologies used and reference / discuss / summarize relevant literature here. Show and discuss the architecture of your project.

Implementation Briefly summarize your implementation work. You may also show / discuss the architecture in this section, depending on your project and what you deem appropriate.

Usage A manual for users and developers of your project: How do you set it up, how is it used?

Conclusion Briefly summarize the outcomes of your project, lessons learned and make recommendations for future work (both smaller improvements to your specific project and bigger ideas)

Deadline

The deadline for the hand-in is on **Tuesday, 28th January 2020 23:59**. Please hand-in all the required files in the corresponding form on ADAM.

On the next page, there is a guide on how to use this template. Please read it carefully and stick to it. We will compile a document with all reports together and distribute that to all participants.

HOW TO

This template is used for the student reports of the Seminar: Modern Human Machine Interaction course. Remove this section by editing the `reportContent.tex` file **after** you have understood how to use this template.

Folder Structure

```

proceedings /
| - reportContent / <— YOUR working folder
|   | - images / <— Images are stored here
|   | - sections / <— Additional sections / tex-files here
|       | - _HOWTO_.tex <— *this* How To section
|       | - introduction.tex
|       | - report.bib
|       | - lessons-learned.tex
|       | - section2.tex
|   ' - reportContent.tex <— Change your section imports here
| - proceedings.tex <— DO NOT alter this file
| - llncs.cls <— NOR that
| - proceedings.py <— NOR that
| - splncs03.bst <— NOR that
| - UniBas_Logo_EN_Schwarz_RGB_65.pdf <— NOR that

```

Setup

Your report is compiled using the `proceedings.tex` file. Therefore, we suggest that you set the file `proceedings.tex` as the Master-/Root-Document that you can conveniently work on your report. Please be aware that you have to compile the `proceedings.tex` file in the following order:

1. `pdflatex proceedings.tex`
2. `biber proceedings`
3. `pdflatex proceedings.tex`
4. `pdflatex proceedings.tex`

For your convenience, you can compile this document by using the `proceedings.py` utility:

```
$> python proceedings.py -p
```

And subsequently (especially before your submission) clean the auxiliary `LATEX` files:

```
$> python proceedings.py -z
```

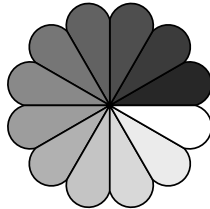


Fig. 1: Example figure stored in the `images` sub-folder and displayed with `\includegraphics[width=0.45\textwidth]{g1-rosette}`

Images

Images placed in the `images` sub-folder can be used directly in the `\includegraphics` command – see also Figure 1. Also, sub-figures are possible: Figures 2a and 2b.

Please DO NOT store your images elsewhere!

Please use your group number (e.g., *1*) in every image file name (e.g., *g1-rosette.pdf* instead of *rosette.pdf*)!

Code

To illustrate code use the `lstlisting` environment:

```
public void foo( final int bar ) {
    System.out.println( bar );
}
```

Labels and References

The proceedings template includes the package *cleveref*, which enables pretty references. One such reference is the following one: Figure 2, which was produced using the command `\Cref{fig:example_subfigure}`. To use the full potential of such clever referencing, one have to set up labels, such as in the example before. The label command was `\label{fig:example_subfigure}` (as seen in the source code in line 69). Be aware that you have to prefix every single label you use with your group name, i.e. *g1* to not clash with other group's labels.

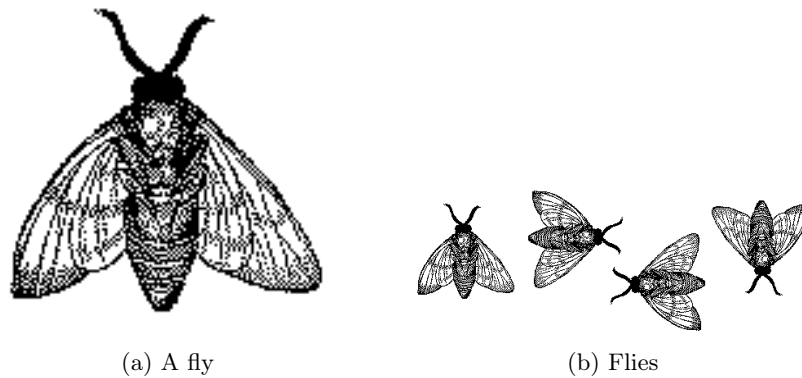


Fig. 2: Example figure stored in the `images` sub-folder

Bibliography

We use the `biblatex` package with `biber`¹ as backend, which most distributions already include. Your references are stored in the `report.bib` file and used with the `\cite` command. For example: [1]. If the previous example shows `kopka1995guide` - you need to re-run the compilation in the following order: `pdflatex`, `biber`, `pdflatex`, `pdflatex`. In case you need some help with references in latex, there is an excellent cheatsheet².

¹ <http://biblatex-biber.sourceforge.net/>

² <http://tug.ctan.org/info/biblatex-cheatsheet/biblatex-cheatsheet.pdf>

1 Introduction

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2 Concepts

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3 Implementation

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4 Usage

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5 Conclusion

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References

- [1] H Kopka and PW Daly. “A Guide to $\{\text{\LaTeX}\}$ –Document”. In: (1995).