

# Project report (Group 1)

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## HOW TO

This template is used for the student reports of the Databases lecture 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`

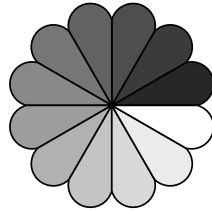


Fig. 1: Example figure stored in the `images` sub-folder and displayed with `\includegraphics[width=0.45\textwidth]{g1-rosette}`

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
```

## 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 );
}
```

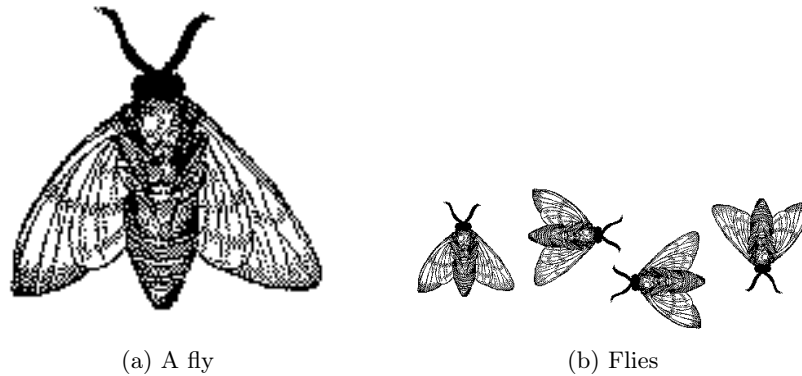


Fig. 2: Example figure stored in the `images` sub-folder

## 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.

## Bibliography

We use the `biblatex` package with `biber`<sup>1</sup> 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 cheatsheet<sup>2</sup>.

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

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

## 1 Introduction

The rise of social media has given people from all different backgrounds a platform with which to share their thoughts and feelings online leaving them available for anyone to read. This phenomenon gives society yet another tool for analysing people's mass behavior; after all, if many individuals share similar posts online, it may be a sign that something is going on. This becomes particularly interesting when important events that affect millions of people take place.

After the last US elections some were heavily displeased and others were satisfied, this friction has been pronounced by the fact that the controversial figure Donald Trump has taken over the presidency of the United States since 2016. In fact many opposers of Trump did not stop at Twitter or Reddit, they took it up to themselves to go out and protest on the streets.

One must not forget how much impact such events can have over the mental well-being of people.

Our goal with this project is to answer the question "To what extent have the results of the US 2016 presidential elections and its consequences affected the suicide rates in the United States?" To do so we use information about protests, riots, and related events together with the outcomes of the elections and reports regarding suicide rates all neatly stored in a database to make a county-level investigation regarding the question at hand.

## 2 Section 2

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### **3 Lessons Learned**

Describe your lessons learned.

### **References**

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