

# Report Template for the REDI Course\*

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## ABSTRACT

This paper provides a sample of a  $\LaTeX$  document for the reports. It is based on the ACM Conference Template.

## KEYWORDS

some keywords shortly describing the content of your paper

## 1 INTRODUCTION

This template should be used for reports in the course. Its intention is to provide help with preparing a professional, concise report, that nevertheless contains all necessary information about the project.

## 2 OVERALL GUIDELINES

Reports for the course should adhere to the following guidelines.

- page limit is 5 pages (references and appendix do not count towards the page limit)
- fonts, font sizes and margins in the template should not be changed
- all meta-data should be provided in the report (names, group number, submission date)

## 3 STRUCTURE

The paper should be structured into sections and subsections. Inside sections and subsections, paragraphs can be used to indicate a new line of thought. Sections and subsections can be referenced easily, this is not yet clear from only reading Section 1.

If a blank line is inserted in the  $\LaTeX$  source, a new paragraph is started.

The following subsections detail how citations, equations, tables and figures are included.

### 3.1 Citations

Packages like `biblatex` and `bibtex` make citations simple. Just create a `bibtex` file and include citations with the `cite` command. A good style is to always precede the `cite` command with a tilde `~`, which inserts a blank space before the citation but prevents latex from breaking a line between the preceding word and the citation. This looks like the following in  $\LaTeX$  source code:

```
some text~\cite{citation-key}
```

By the way, J.L. Lebrun's book is a nice introduction to scientific writing [2].

Table 1: Frequency of Special Characters

Non-English or Math	Frequency	Comments
$\emptyset$	1 in 1,000	For Swedish names
$\pi$	1 in 5	Common in math
$\$$	4 in 5	Used in business
$\Psi_1^2$	1 in 40,000	Unexplained usage

### 3.2 Math Equations

Equations can be inserted inline, with numbers or without numbers. This  $E = m \cdot c^2$  is an inline equation. While the following produces numbered equations (align at the equal sign).

$$1 = 1^2 \tag{1}$$

$$2 = 1 + 1 \tag{2}$$

Numbered equations can be easily referenced, e.g. see equation 2. Unnumbered equations can be similarly produced<sup>1</sup>

$$1 + 1 = 3 \tag{3}$$

### 3.3 Tables

Usually tables are set on top of the page and before they are mentioned in the text. Table captions should be set before the table. See an example (table 1 below).

If you want to set a wider table that spans two columns, use the environment `table*` as shown in table 2.

Professional publishers advice to use the `booktabs` package [1] and follow its main principles:

- (1) Never, ever use vertical rules.
- (2) Never use double rules.

### 3.4 Figures

Figures should also be placed on top or at the bottom of the page before they are cited, see figure 1 for an example. If you produce figures, the best way to ensure the quality is to use vector graphics instead of bitmapped figures. Vector graphic formats are for example SVG, EPS, PDF. SVG graphics need to be converted to EPS or PDF first, EPS is used with `latex` and PDF is used with `pdflatex`. The `includgraphics` command has some parameters to adjust the width, height or scale of the figure. Figure captions go below the figure.

Figures spanning two columns can be set with the `figure*` environment as shown in figure 2.

## 4 CONCLUSIONS

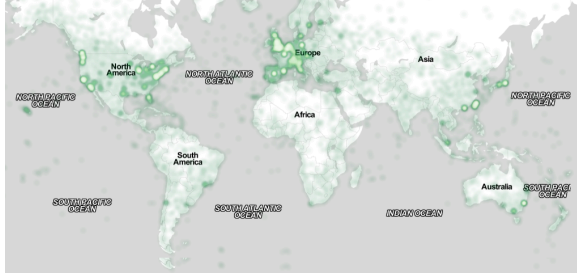
Some dummy texts to fill some space.

<sup>1</sup>This needs to be proven.

\*Adapted from the ACM SigConf Template. More information about the template can be found at <https://www.acm.org/publications/proceedings-template>

**Table 2: Some Typical Commands**

Command	A Number	Comments
<code>\author</code>	100	Author – and just some text to make the column rather wide
<code>\table</code>	300	For tables
<code>\table*</code>	400	For wider tables



**Figure 1: A sample figure.**

## 4.1 Dutch

Ik ben makelaar in koffi, en woon op de Lauriergracht No 37. Het is mijn gewoonte niet, romans te schrijven, of zulke dingen, en het heeft dan ook lang geduurd, voor ik er toe overging een paar riem papier extra te bestellen, en het werk aan te vangen, dat gij, lieve lezer, zoÅven in de hand hebt genomen, en dat ge lezen moet als ge makelaar in koffie zijt, of als ge wat anders zijt. Niet alleen dat ik nooit iets schreef wat naar een roman geleeke, maar ik houd er zelfs niet van, iets dergelijks te lezen, omdat ik een man van zaken ben.

Sedert jaren vraag ik mij af, waartoe zulke dingen dienen, en ik sta verbaasd over de onbeschaamdheid, waarmee een dichter of romanverteller u iets op de mouw durft spelden, dat nooit gebeurd is, en meestal niet gebeuren kan. Als ik in mijn vak – ik ben makelaar in koffie, en woon op de Lauriergracht No 37 – aan een principaal – een principaal is iemand die koffie verkoopt – een opgave deed, waarin maar een klein gedeelte der onwaarheden voorkwam, die in gedichten en romans de hoofdzaak uitmaken, zou hij terstond Busselinck & Waterman nemen.

Dat zijn ook makelaars in koffi, doch hun adres behoeft ge niet te weten. Ik pas er dus wel op, dat ik geen romans schrijf, of andere valse opgaven doe. Ik heb dan ook altijd opgemerkt dat mensen die zich met zoiets inlaten, gewoonlijk slecht wegekomen. Ik ben drieÅnveertig jaar oud, bezoek sedert twintig jaren de beurs, en kan dus voor de dag treden, als men iemand roept die ondervinding heeft. Ik heb al wat huizen zien vallen! En gewoonlijk, wanneer ik de oorzaken naging, kwam het me voor, dat die moesten gezocht worden in de verkeerde richting die aan de meesten gegeven was in hun jeugd.

## 4.2 Latin

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## 4.3 Kafka

One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections. The bedding was hardly able to cover it and seemed ready to slide off any moment.

His many legs, pitifully thin compared with the size of the rest of him, waved about helplessly as he looked. "What's happened to me?" he thought. It wasn't a dream. His room, a proper human room although a little too small, lay peacefully between its four familiar walls. A collection of textile samples lay spread out on the table - Samsa was a travelling salesman - and above it there hung a picture that he had recently cut out of an illustrated magazine and housed in a nice, gilded frame. It showed a lady fitted out with a fur hat and fur boa who sat upright, raising a heavy fur muff that covered the whole of her lower arm towards the viewer. Gregor then turned to look out the window at the dull weather.

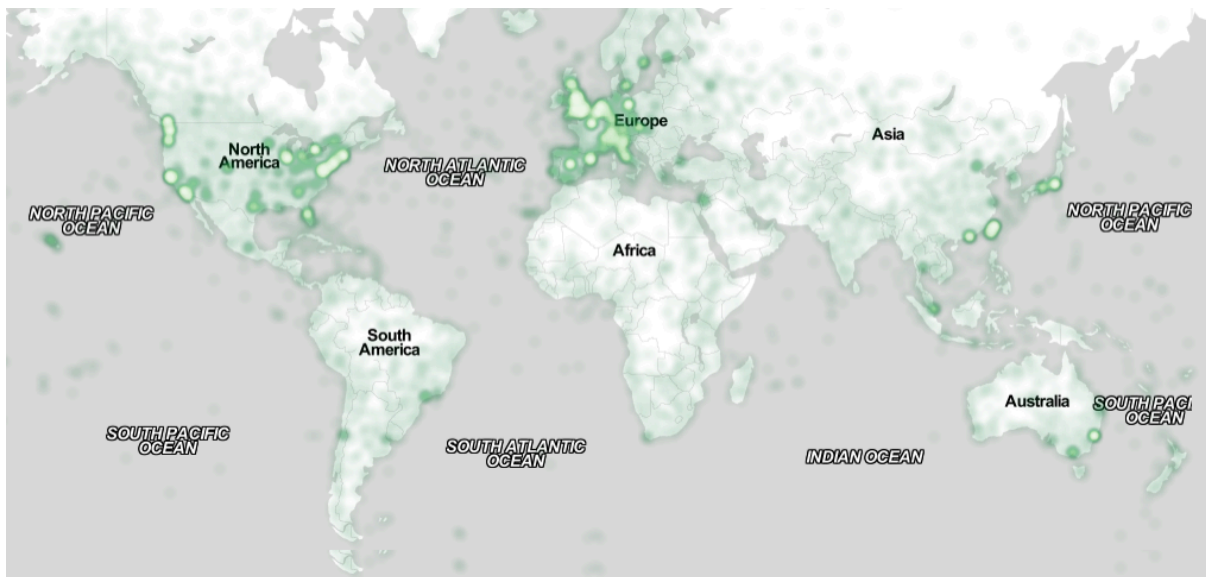


Figure 2: A sample figure spanning two columns.

## A SECTION IN THE APPENDIX

Appendices can be used for additional material that do not fit into the main body in the paper but are still important. The main part should be understandable without the content in the appendices. Candidates for such content are lists of parameter settings, additional results (that show the same already shown before but on different data) or additional example images.

## ACKNOWLEDGMENTS

If you use special data sets or got some other help, here is the right place to mention it. Otherwise, this section can be left out.

## REFERENCES

- [1] Simon Fear. 2005. *Publication quality tables in L<sup>A</sup>T<sub>E</sub>X*. <http://www.ctan.org/pkg/booktabs>.
- [2] Jean-Luc Lebrun. 2011. *Scientific Writing 2.0*. WORLD SCIENTIFIC. <https://doi.org/10.1142/8156> arXiv:<https://www.worldscientific.com/doi/pdf/10.1142/8156>