



Master of Science HES-SO in Engineering

Orientation: [Orientation]

[ThesisTitle]

Author

[FirstName] [LastName]

[ThesisSubject]

Under the supervision of

[FirstName] [LastName] [FirstName] [LastName] [ResearchUnit] **External Expert** [FirstName] [LastName]

Information about this report

Contact information

Author:	[FirstName] [LastName] [Diploma] Student HES-SO//[Diploma]		
	Switzerland		
Email:	[user@domain.com]		
Declaration of ho	onor		
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[FirstName] [Last	Name]	Prof. X	
Advisor		Dean, HES-SO//[Diploma]	

Abstract

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Key words: keyword1, keyword2, keyword3

Résumé

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Mots clés: motclé1, motclé2, motclé3

 $\begin{array}{c} {\sf Sometimes\ a\ scream\ is\ better\ than\ a\ thesis.} \\ {\color{blue}\longleftarrow\ Manfred\ Eigen} \end{array}$

To my parents...

Acknowledgments

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Preface

A preface is not mandatory. It would typically be written by some other person (eg your thesis director).

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Fribourg, 21 March 2022

T.D.

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1 Introduction

1.1 Context

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1.2 Objectives

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1.3 Structure of this report

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2 Analysis

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	2.2.2	Code
	2.2.3	Boxes
	2.2.4	Citation or text references
	2.2.5	Other features
2.3	Conclu	sion

This chapter shows example of picture and also serves to populate the different lists: list of figures, list of tables, bibliography, and glossary.

2.1 Tables

This section contains an examples of table: Table 2.1 and

name	weight	food
mouse	10 g	cheese
cat	1 kg	mice
dog	10 kg	cats

Table 2.1: A floating table.

2.2 Milestones

The project consists of several milestones along the way to lay the foundation for its progress.

Name	Weight	Food
mouse	10g	cheese
cat	1kg	mice
dog	10kg	cats

Table 2.2: A pretty table

2.2.1 Figures

This section contains examples of figures: Figure 2.1, Figure 2.2a, Figure 2.2b, Figure 2.2c, Figure 2.2d



Figure 2.1: A floating figure: the lithograph Galleria di stampe, of M. Escher Source: http://www.mcescher.com/

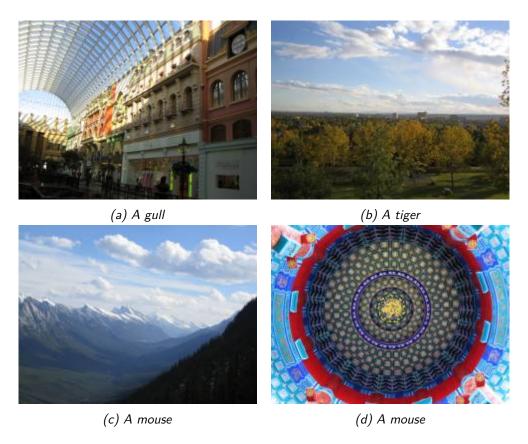


Figure 2.2: Example subcaption

2.2.2 Code

Listing 2.1 shows an example of Java code rendered with minted.

```
/**
  * The HelloWorldApp class implements an application that
  * simply prints "Hello World!" to standard output.
  */
class HelloWorldApp {
    public static void main(String[] args) {
        System.out.println("Hello World!"); // Display the string.
    }
}
```

Listing 2.1: Example of listing using the minted package

2.2.3 Boxes

There is the possibility to insert custom boxes like information or warning wise.

IMPORTANT

This is an important information.



Attention! This is a warning!

2.2.4 Citation or text references

Citation

"Lorem ipsum dolor sit amet, consectetuer adipiscing elit."

John Doe and Jane Doe

2.2.5 Other features

Term (glossaries): NoSQL

Acronym (glossaries): Structured Query Language (SQL)

Citation (biblatex): [1]

Cat: https://en.wikipedia.org/wiki/Cat

2.3 Conclusion

3 | Design

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3.1 Short lists

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

- 1. First item in a list
- 2. Second item in a list
- 3. Third item in a list
- 4. Fourth item in a list
- 5. Fifth item in a list

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First item in a list

Second item in a list

Third item in a list

Fourth item in a list

Fifth item in a list

3.2 Long lists

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3.3 Multi-level lists

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• First item in a list

- First item in a list
 - * First item in a list
 - * Second item in a list
 - * Third item in a list
 - * Fourth item in a list
 - * Fifth item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

- 1. First item in a list
 - (a) First item in a list
 - i. First item in a list
 - ii. Second item in a list
 - iii. Third item in a list
 - iv. Fourth item in a list
 - v. Fifth item in a list

Chapter 3. Design

- (b) Second item in a list
- (c) Third item in a list
- (d) Fourth item in a list
- (e) Fifth item in a list
- 2. Second item in a list
- 3. Third item in a list
- 4. Fourth item in a list
- 5. Fifth item in a list

3.4 Conclusion

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4 | Implementation

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4.3	Conclusion	16

4.1 Section 1

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4.2 Section 2

4.3 Conclusion

5 Validation

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5.1 Section 1

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5.2 Section 2

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5.3 Conclusion

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6 Conclusion

- 6.1 Project summary
- 6.2 Comparison with the initial objectives
- **6.3** Encountered difficulties
- 6.4 Future perspectives

History

Version	Date	Modification
0.0	-	-
0.1	-	-

Table 6.1: Version history

A | Appendices

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References

[1] Tyler Akidau et al. "MillWheel: Fault-Tolerant Stream Processing at Internet Scale". In: Very Large Data Bases. 2013, pp. 734–746.

Glossary

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