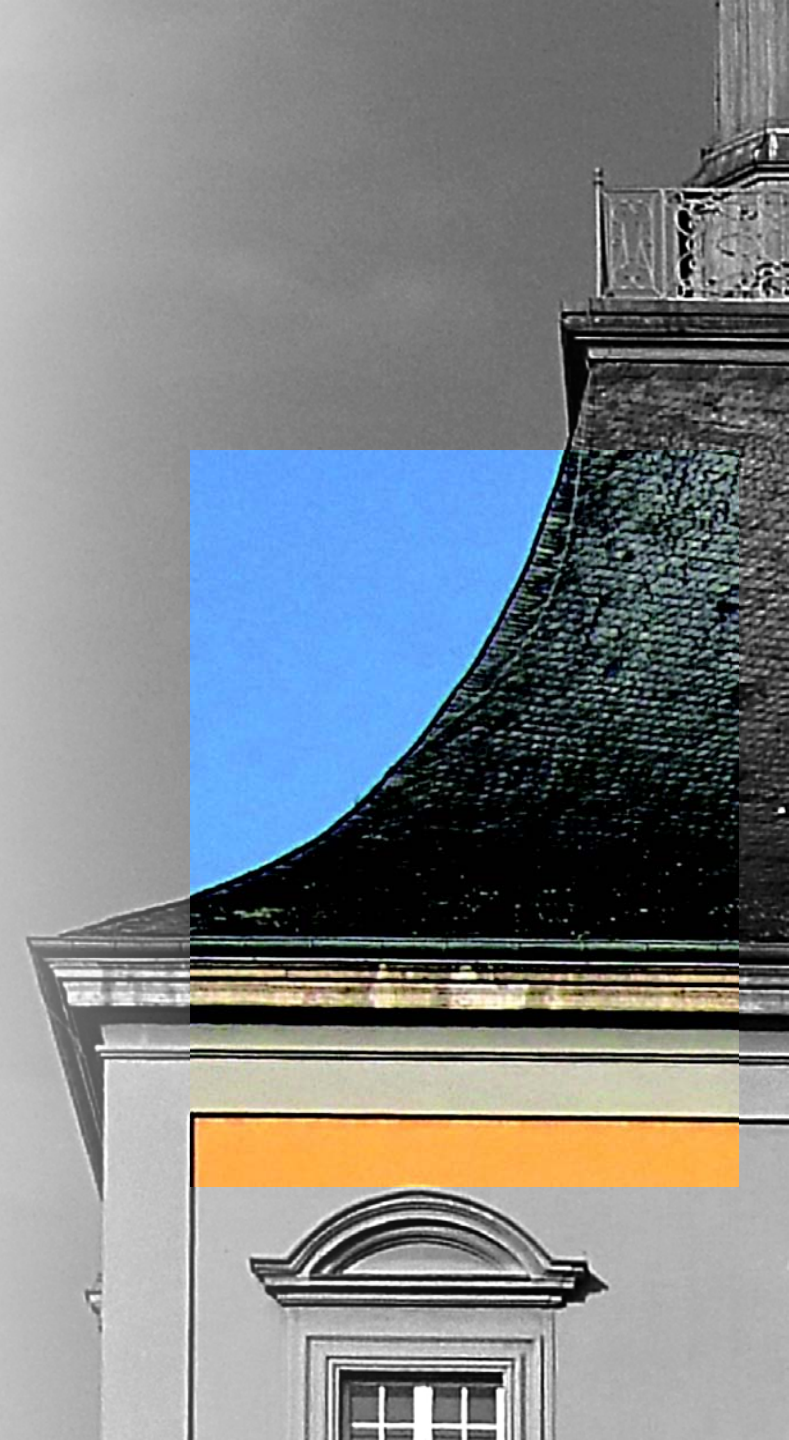


LABS
COMMUNICATION & COMMUNICATING DEVICES
IT SECURITY & CYBER SECURITY
INFORMATION AND ADVICE

University of Bonn
Institute of Computer Science 4

Prof. Dr. Peter Martini
Prof. Dr. Michael Meier

Winter term 2025/26



GOALS OF A LAB

- Register in BASIS until October 31st for one of the following modules:
 - Lab Communication & Communicating Devices: MA-INF 3304
 - Lab IT Security: MA-INF 3229
 - Lab Cyber Security: MA-INF 3245
- Get familiar with a topic within a limited time frame.
- Work scientific and practical.
- Prepare a written report of 5-10 pages and, if required, a SW documentation.
 - Have a look at the Seminar's Guidelines.
- Submit your work to your supervisor until **March 13th 2025**.
 - If there is no different agreement, the final submission is done via email to your supervisor
- Prepare a presentation of your work, ideally including a demo.
- Present your work in a presentation (oral exam) of ~30 minutes: Time (March. 27th, 2025) and place (most likely this room).

GUIDELINES FOR LAB REPORTS

Guideline for the Composition of Master Theses, Seminar Papers and Lab Reports

Rheinische Friedrich-Wilhelms-Universität Bonn
Institut für Informatik IV

Prof. Dr. Peter Martini and staff

28.03.2012

1 Why?

This guideline for composing master theses, seminar papers and lab reports was inspired by the observation that, in the process of their work, students often repeat the same mistakes that could easily be avoided. On this background, the idea for this guideline was born with the intention to reduce your (and also, of course, our) time input, and provide you with a set of techniques for composing scientific texts which have proven very effective for improving the presentation of contents as well as their comprehensibility for the reader.

1.1 The Purpose of a Lab Report

Preparing the report is an inherent part of every lab offered by our work group during the main study period. The report should give the reader a detailed picture of

- which task was tackled during the practical exercises,
- which challenges had to be coped with in order to accomplish the task,
- in what way and how well these challenges were mastered.

The report is **not a protocol of procedures**, i.e. it should not provide a detailed listing of all steps made in order to solve the problem. It is rather a documentation of

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and solution and should also motivate why this particular solution was chosen. It is appropriate to also mention other possible solutions that were tried but later on for good reasons. However, the description of the implemented solution must outweigh such references.

Purpose of a Seminar Paper

A seminar paper should summarize in short the vital aspects of a given subject. Since the text sources usually outnumber the admitted paper volume by far, it is the author's task to reduce the sources to the relevant facts. The paper should be written in the author's own words and never be literally copied from the original text. This is particularly applies to text sources in foreign languages: literal translations may simply miss the point of the matter. One of the excuses for using literal translations is that the original text could not be understood. If this is the case, rather ask the tutor for help – that is what he is there for. Other popular excuses like "the text was so excellent, I could not have said it better" certainly do not require comments.

Purpose of a Master Thesis

According to the MaPO (conditions of study) of 2008 [MP008], the Master thesis is defined as follows (quotation from the German language MaPO):

Die Masterarbeit ist eine schriftliche Prüfungsarbeit, die zeigen soll, dass der Studierende in der Lage ist, innerhalb einer vorgegebenen Frist ein wissenschaftliches Problem aus dem Gebiet des Studienganges selbstständig nach wissenschaftlichen Methoden zu bearbeiten, einer Lösung zuzuführen und diese angemessen zu präsentieren.

The English meaning would be:

The master thesis is expected to show that the student is capable of independently applying scientific methods to a problem in the field of his/her study within a set period of time, proving his/her aptitude for scientific work."

When reviewed on the basis of the written elaboration handed in by the student, for the student's own benefit it is recommended to focus not only on the content but also on an appealing form of their presentation. Normally, the grading is influenced by formal aspects of the thesis. If, however, we have to choose between two possible gradings, the form of presentation can be of vital importance.

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Available
online