Writing a report on an assignment: general requirements

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The structure of the report

Your report should at least include the following:

- A short description of the problem setting and assumptions made.
- A thorough theoretical part, which includes analysis of the problem, for instance, properties of the matrices, theoretical results, computational complexity of the underlying algorithm(s) etc.
- A description of the experimental results, observations and explanations (do the obtained results confirm the theoretical expectations).
- Figures and tables with clear explanations of the plotted results are a strong requirement. There must be a clear indication what do we see in the figure, what is plotted on each of the axes etc.
- Conclusions, comparisons, discussions, suggestions for improvements.
- A listing of the *matlab* code (when applicable).

It is much appreciated if you include some comments about the assignment. What did you think of it? Your experiences and opinions are valuable. We always want to make the NLA course better. Your thoughts about the assignment will be of a big help for us, and thus our future students. Thank you!

How much of the numerical experiments should I include in the report?

In some cases, in particular in Assignment III, you will have to compare the performance of various methods on various matrices, which latter in their turn will be of various size. You should not include all the experiments in the report. The idea here is that you choose which experiments illustrate best (or clearly enough) the point you want to make in the report.
Important notes and dates

The report should be written in Swedish or English. It can be hand-written or typed. In the former case, you should strive to write readably enough in order to ensure that the proofs and results are understood by the reader.

The assignments for Modules I and II are individual. For the assignment for Module III you are encouraged to work in pairs. However, all topics in the assignment should be covered by each student. (Regarding assignment IV there will be a separate note.)

The full report must be submitted no later than the deadline given at the end of the assignment text. Reports submitted after that date might have to be complemented with an additional task.

Your assignments will be evaluated regarding correctness, completeness, conclusions, (relevance of) discussions and also clarity and style of writing of the report itself. *Think of your report as of a research paper to be submitted to a relevant scientific journal.*