

Academic writing: process and desired outcome

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DAT096 writing tasks

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Outline

- Reading scientific papers
- Writing scientific papers
 - The writing process
- The intended outcome
 - HISS criteria
- Upcoming writing tasks

Reading a scientific paper

- Start by reading this blog post:
- <http://www.sciencemag.org/careers/2016/03/how-seriously-read-scientific-paper>
 - Paper copies available
 - Read at least the first part “How do you approach reading a paper”

Discuss in groups

- Did you learn anything new from the first section of the blog post?
- Any thoughts about what to think about when you **write** an academic text?

Observations

- Scientific/academic papers are NOT read in linear order.
- The linear order help readers find the information they seek.
- Conventions!
 - Details differ from field to field.

Writing process

1. Pre-writing
2. Drafting
3. Editing
4. Proofreading
5. (Publishing)

1. Prewriting. What? Why?

- Describe experiment
- Outline theory
- Summarize study
- Give input for decisions
- Teach students, colleagues
- Argue for solution
- Get passing grade
- ...

Make sure you know “what” and “why”!

It will affect all subsequent stages!

1. Prewriting. For whom?

- What level of background knowledge can you expect from reader?
 - Student: may be seeing contents for first time
 - Professor: should be familiar with it
 - Manager: will need reminding :-)
- Every reader will be short of time!

1. Prewriting. Organize!

- Collect material/references.
- Team issues:
 - Decide on tools, guidelines?
 - Who does what?
 - Feedback possibilities?

2. Drafting

- When you put “the pen” to the paper.
- Does not have to be full sentences to start with!
- Get something down on paper.

2. Drafting

- Develop a more cohesive text
- Organize thoughts
- Explain examples/ideas
- Uncover transitions
- Discover central argument/points
- Elaborate on key ideas

Source: Strunk & White

3. Revising

- Find out what you really trying to say!
- Reorganize.
- Remove unnecessary parts.
- Check connections and flow.

4. Editing (proofreading)

- Unclear things?
- Consistency
- Spelling
- Abbreviations
- Repetitions
- Other errors

HISS criteria

- Overall impression 20%
- Content & understanding 40%
- Structure 20%
- Language 20%

Groups of 4-5 persons

- Each group member: Select one of the 4 sections of the HISS criteria.
- Take 5–10 minutes to read through your section.
- Explain to each other what the section is about and how a perfect paper should be according to the criteria. (20 minutes)

Upcoming writing tasks

HT report contents?

- Preferably, a substantial draft of your final report
 - More polish on earlier parts
- Refer to <https://writing.chalmers.se/chalmers-writing-guide/thesis-and-report-writing/parts-of-a-thesis-report/>
- Note: generic guidelines, so generic section titles
 - Also, “Methods” may not be applicable in a report on a design project

Feedback on half-time report

- Separate document organised according to HISS criteria.
 - + extra comments on visuals
- Detailed comments also in your pdf.

How handle feedback?

- We give feedback on what you provide
 - A better draft yields more useful comments
- We are always short of time
 - Fix all instances of the problems we point out!

Documentation

- Documentation aimed at other engineers who are to continue your work
 - Include test procedures and protocols
- No end-user documentation