

Today: Reviewing, editing

- Your first draft is finished... what now?
- Start the editing process!
- THE AIM:
 - To get your manuscript into a state which can be published
 - = a state in which it can be submitted
- Easier (?) than writing
- Have a beer/relax a bit first.

Eloquent Science chapters 13 and 20

Scientific Writing



The Editing Process

- · As important as the writing process
- · May take longer!
- Like writing a paper:
- · Start with the large scale and zoom in Structure→Sections→Paragraphs→Sentences
 - 1 Content
 - 2 Flow
 - 3 Spelling, typos, grammar, punctuation

Scientific Writing



"CPR method"

• Concision : make cuts

• Precision : make it clear

• Revision : repeat until good enough

· How many drafts?

- Often dozens. Some people say 50!
- Drafts are expensive:
 - · How much does one day of my time cost?



Scientific Writing

Editing

- Too close to see your own faults? Ask:
 - Co-authors
 - Colleagues
 - · Non-experts?
- Do not upset the referee:

If the author cannot be bothered, why should the referee?

• Do not assume you will edit after the referee has reported:

What you submit could go straight into the journal as it is!

Scientific Writing



Editing: Things to do

- · Are the paragraphs (=ideas!) in the correct, logical order?
- Does the text flow? (also logical order)
- Is the original point of the paper still clear?
 - Does the paper still make the point?
 - Is the original structure the correct structure?
- · Make a draft with margin notes
 - · Reorganize where required





Cut, cut, cut

- Verbal baggage: we all do it, cut it!
- · Colloquialisms, informal language: cut it!
- Duplicated phrasing, facts, etc: cut it!

· Tangential thoughts/information, non-linear

information: cut it!

Scientific Writing

Why keep it short?

- · Who reads long papers?
- · Easier to write a short paper!
- Easier to publish a short paper!
- · Referee will like it more (less work)
- Journal will be happier
- · Better publication record

Eloquent Science p. 171

Fewer annoying/annoyed co-authors ...

words, a paragraph no unnecessary sentences, for the same reas that a drawing should have no unnecessary lines and a machine unnecessary parts. This requires not that the writer make all I sentences short, or that he avoid all detail and treat his subjects only

Erudite Vernacular Utilized Irrespective of Necessity

omplexity of their vocabulary so as to give the impression of intelligence manipulated fluency and found that texts in hard to read fonts are judge to come from less intelligent authors. ...

plications and applications are discussed.

Oppenheimer, 200.

Iq Nobel

Practical editing

- Take a break. Beer, chocolate, walk ...
- · Get in the mood for editing
- Avoid email/phone/internet
- Print your draft
- · Highlight the main points in
 - Abstract
 - Introduction
 - Body
 - Conclusions

Scientific Writing



Practical editing

- Check that the title and abstract are consistent with the article contents
- · Check journal style guide
- Spelling, punctuation, etc.
 - · Get it wrong: look like an idiot
 - · NOT the job of the editor!
 - · Or the referee!
 - Do you trust the editor to get it right?

Who may not write English as well as you... and may well make scientific mistakes.

Scientific Writing

Scientific Writing



Practical editing

- · Read your manuscript
- If you have to read something twice, it needs work!
- Multiple reads with different purposes:
 - · Argument, grammar, flow, typos/spelling
- · Read it backwards (reduces familiarity)
- · Check figures, tables, captions, appendix, acknowledgements, citations etc.
- Read it again



Self improvement

- · You want to improve (I hope!)
- · Write a list of your weak points
- · WORK HARD on them!
- So what if you have a Bsc/Masters/PhD/postdoc/position?
- You never stop learning!



Scientific Writing

Getting Feedback

- "Your paper is rubbish!" does not help
- Is the science bad?
- Is the writing bad? (or both?!)
- Get feedback from someone you trust
- · Do not look for sycophants
- · Find someone intellectually challenging
- Ask non-experts?
 - Before asking, fix as much as you can yourself if you cannot be bothered, why should they?

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Getting Feedback

- Give instructions to your editor
 - · Check the science?
 - · Check the structure?
 - · Check the spelling? Grammar? Etc.
- Give a seminar on the topic of the paper
 - In institutions where you will be criticized
 - · Good for scientific feedback
 - Sharpens ideas
 - Do it as part of the writing process

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Mistakes and Finishing up

- If you make many small mistakes ...
- · You probably make LARGE ones too.
- Learn to make fewer mistakes at every stage of preparing your manuscript
- When are you finished editing?
 Fewer than one mistake per page

Scientific Writing



Giving Feedback

- · Almost nobody likes criticism
 - Positive feedback : constructive criticism
 - Phrase negative comments as questions
- · Science content?
- Or presentation/style?
- Or Both?
- What are your constraints?Who is it for?
- See today's exercise...

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Giving Feedback

- Sandwich criticism between positives
- · Explain your reasoning
- Give evidence for it (e.g. citations)
- Suggest new ideas/revised text
- Say why the paper benefits...
- Remember to review what you are given,

not what you would have written!

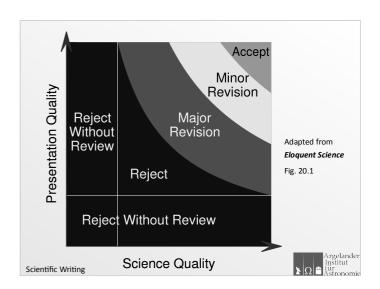


Journal Review Results

- Four options:
 - Accept
 - Minor revisions (often not re-reviewed)
 - Major revisions (back to the referee)
 - Reject (oh dear!)
- A journal review is usually anonymous
 - · Referee might want credit
 - · Or know the authors
- I usually only reveal my name if review is positive!

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Typical review structure

- "Cover" statements
 - "Paper on xyz by authors a, b and c"
 - · Outline significance of the work
 - Summary (for the editor and authors)
 - Recommendation
- Critical points
 - Fatal problems
 - · Major comments
 - Minor comments
 - Typos, spelling errors etc.

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Peer Review Exercise

- Read (twice!)
- Review
- Edit
- Discuss

