

Use minimalism to achieve clarity. While you are writing, ask yourself: is it possible
to preserve my original message without that punctuation mark, that word, that
sentence, that paragraph or that section? Remove extra words or commas whenever
you can.

 Decide on your paper's theme and two or three points you want every reader to remember. This theme and these points form the single thread that runs through your piece. The words, sentences, paragraphs and sections are the needlework that holds it together. If something isn't needed to help the reader to understand the main theme, omit it. • Limit each paragraph to a single message. A single sentence can be a paragraph. Each paragraph should explore that message by first asking a question and then progressing to an idea, and sometimes to an answer. It's also perfectly fine to raise questions in a paragraph and leave them unanswered.

Keep sentences short, simply constructed and direct. Concise, clear sentences work
well for scientific explanations. Minimize clauses, compound sentences and
transition words — such as 'however' or 'thus' — so that the reader can focus on
the main message.

• Don't slow the reader down. Avoid footnotes because they break the flow of thoughts and send your eyes darting back and forth while your hands are turning pages or clicking on links. Try to avoid jargon, buzzwords or overly technical language. And don't use the same word repeatedly — it's boring.

• Don't over-elaborate. Only use an adjective if it's relevant. Your paper is not a dialogue with the readers' potential questions, so don't go overboard anticipating them. Don't say the same thing in three different ways in any single section. Don't say both 'elucidate' and 'elaborate'. Just choose one, or you risk that your readers will give up.

•	And don't worry too much about readers who want to find a way to argue about every tangential point and list all possible qualifications for every statement. Just enjoy writing.

<ul> <li>With regard to grammar, spoken language and conguides for a first draft than rule books. It's more in its to form a grammatically perfect sentence.</li> </ul>		_		

 Commas denote a pause in speaking. The phrase "In contrast" at the start of a sentence needs a comma to emphasize that the sentence is distinguished from the previous one, not to distinguish the first two words of the sentence from the rest of the sentence. Speak the sentence aloud to find pauses. Dashes should emphasize the clauses you consider most important — without using bold or italics — and not only for defining terms. (Parentheses can present clauses more quietly and gently than commas.) Don't lean on semicolons as a crutch to join loosely linked ideas. This only encourages bad writing. You can occasionally use contractions such as isn't, don't, it's and shouldn't. Don't be overly formal. And don't use exclamation marks to call attention to the significance of a point. You could say 'surprisingly' or 'intriguingly' instead, but don't overdo it. Use these words only once or twice per paper.

 Inject questions and less-formal language to break up tone and maintain a friendly feeling. Colloquial expressions can be good for this, but they shouldn't be too narrowly tied to a region. Similarly, use a personal tone because it can help to engage a reader. Impersonal, passive text doesn't fool anyone into thinking you're being objective: "Earth is the centre of this Solar System" isn't any more objective or factual than "We are at the centre of our Solar System."

•	Choose concrete language and examples. If you must talk about arbitrary colours of an abstract sphere, it's more gripping to speak of this sphere as a red balloon or a blue billiard ball.

 Avoid placing equations in the middle of sentences. Mathematics is not the same as English, and we shouldn't pretend it is. To separate equations from text, you can use line breaks, white space, supplementary sections, intuitive notation and clear explanations of how to translate from assumptions to equations and back to results. When you think you're done, read your work aloud to yourself or a friend. Find a
good editor you can trust and who will spend real time and thought on your work.
Try to make life as easy as possible for your editing friends. Number pages and
double space.

 After all this, send your work to the journal editors. Try not to think about the paper until the reviewers and editors come back with their own perspectives. When this happens, it's often useful to heed Rudyard Kipling's advice: "Trust yourself when all men doubt you, but make allowance for their doubting too." Change text where useful, and where not, politely explain why you're keeping your original formulation.  And don't rant to editors about the Oxford comma, the correct usage of 'significantly' or the choice of 'that' versus 'which'. Journals set their own rules for style and sections. You won't get exceptions. Finally, try to write the best version of your paper: the one that you like. You can't please an anonymous reader, but you should be able to please yourself. Your paper — you hope — is for posterity. Remember how you first read the papers that inspired you while you enjoy the process of writing your own.

## Today's workshop

## Cormac markup

- Choose a paper from a journal and try to find an example of violating Cormac's suggestions.
  - Not being minimalist
  - Extraneous stuff
  - More than one message per parag
  - Word repetition
  - Over elaboration
  - Equations in a sentence