Controlled language for text simplification

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Do you object to simple text?

Loss of technical accuracy?

- It has been observed that a domestic feline with a propensity to slothfulness and of an inherently obese nature was seated on the mat.
- The lazy fat cat sat on the mat.

Questions:

- Is it necessary for a scientific text to be linguistically complex? (I mean the grammatical structures and the non-technical vocabulary. I do not mean the technical content.)
- Do you have objections to simple text in scientific documents? If yes, why?



Phrasal verbs cause confusion

Phrasal verbs cause problems for non-native readers (Thrush, 2001).

"At moderate fields and temperatures a lattice of triangular symmetry is observed, **crossing over** to a lattice of square symmetry with increasing field and temperature." (https://arxiv.org/abs/1403.1767)



One word can have different parts of speech

As (conjunction/preposition)

- Push the switch **as** you move the lever. > Conjunction = when/while
- Be careful, **as** the material is poisonous. > Conjunction = because
- Do not use the pipe **as** a support. > Preposition



STE checker example

<u>File</u> <u>Edit</u> <u>Text</u> Checking <u>H</u> elp	
 Correct: If the oil is dirty, clean the filter. Incorrect: Do not bil the lever. 	٦
STE 7, rule 1.6: oil	
lubricate	
More	
Turn off Rule	
Activate Rule	
Starting check in English (Brush) 1. Line 2, column 19 Message: STE 7, rule 1.6. The verb 'oil' is not approved in the dictionary. Use 'OIL' as a technical name (rule 1.5.4, example in oil (v)). Alternatives: LUBRICATE (v). Possible replacements: lubricate. (deactivate) Correction: lubricate Context:ty, clean the filter. Incorrect: Do not oil the lever. More info: https://www.simplified-english.co.uk/analysis.html#not-ap	
Text Language: 🛤 English (British) 🔹 🔲 Automatically detect language Potential problems found: 1 (time: 15m	is)

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The structure of a grammar rule

<rule id="DEMO_POS_OIL" name="Noun approved: oil">

<pattern>

<token>oil<exception postag="IS NOUN"/></token>

</pattern>

<message>Make sure that '<match no="1"/>' is a noun.</message>

<example type="incorrect"><marker>Oil</marker> the valve.</example>

<example type="correct">Put <marker>oil</marker> on the

valve.</example>

</rule>



Ambiguous parts of speech

Ambiguous POS in standard English (the examples are not STE)

- Let's stop getting this **biweekly**.
 Noun or adverb?
- ... purchased from Ukraine in 2006 and Il-76 transport aircraft.
 Noun in a noun cluster or a verb?
 In BrE, we can treat company names as collective nouns.
- ... with the former **being** manufactured by Acme Industries and the latter...
 Noun or present participle?
 Our world knowledge tells us 'probably a verb'.

