

What (not) to do in L^AT_EX

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TL;DR: add “\” after periods in abbreviations. Add “@” before periods in capitalized acronyms (e.g., TL;DR).

In L^AT_EX, spaces have different lengths. For example, the space between words is smaller than the space between sentences. This simple trick makes the document more readable. However, how does the rendering engine understand what kind of space to use? For that, a series of heuristics are used. For instance, a period (aka, a full stop) is typically used to indicate the end of a sentence, so it makes sense to put more space after this punctuation mark. However, this is not infallible. Consider abbreviations like “e.g.”, “i.e.”. Here we have periods that do not indicate the end of a sentence, but it is impossible for L^AT_EX to know that, so, too much space will be used. Consider the difference between the following two sentences:

There are many foods I like to eat in the summer. I like fruit, e.g. apples, bananas.

There are many foods I like to eat in the summer. I like fruit, e.g. apples, bananas.

There’s a clear difference between the two sentences. The first one is incorrect. The second one was obtained adding a backslash after the period:

`I like fruit, e.g.\ apples, bananas.`

L^AT_EX behaves in the opposite way with capitalized letters. It is assumed that periods indicate an acronym, e.g. N.A.S.A., so L^AT_EX will assume that the sentence is not completed when it ends with a capitalized letter and a period. To inform the rendering engine that this is wrong, “\@” has to be used *before* the period.

`a very powerful GPU\@.`

My computer does not have a very powerful GPU. This is not a big problem.
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Typically, this does not result in very noticeable errors, but it is always best to inform L^AT_EX of your intents to avoid rendering problems.