

Here is the well-known $\text{T}_{\text{E}}\text{X}$ logo. Do you see something strange? You have to enlarge it a lot. This does not happen with a font for larger sizes: $\text{T}_{\text{E}}\text{X}$.

The problem is even more obvious with that *different* definition from the TUGboat macros (class `ltugboat`, file `ltugcomm.sty`): it's $\text{T}_{\text{E}}\text{X}$ in normal size, and huge: $\text{T}_{\text{E}}\text{X}$.

The definition for the “traditional” logo, in `plain.tex`, is:

```
\def\TeX{T\kern-.1667em\lower.5ex\hbox{E}\kern-.125emX}
```

In `latex.ltx` it's the same with `\@` appended at the end.

The definition for the logo from TUGboat is:

```
\DeclareRobustCommand\TeX{T\kern-.1667em\lower.424ex\hbox{E}\kern-.125emX\@}
```

The only difference is the height by which the ‘E’ is `\lowered`. I do not know why it is so.

Just to make things clear (Latin Modern 10 at 96pt):



Fig. 1: Original definition

Fig. 2: TUGboat's definition