

and most-heavily used reference books in my personal library for years. Unicode allows me to celebrate the fact that computer science is a vast worldwide

Hardcopy versions of the Unicode Standard have been among the most crucial

understanding between people of different cultures.

collaboration. And Unicode is perhaps the best tool I know to help bring

Donald E. Knuth

Unicode case terms

- Lowercasing Convert all code points to their lowercase mapping if defined, otherwise leave alone; apply context and language rules
- Uppercasing Convert all code points to their uppercase mapping if defined, otherwise leave alone; apply context and language rules
 - Titlecasing Convert the first letter to (almost always) uppercase and the rest to lowercase; some code points have a different upper- and titlecase mapping; complicated by language conventions
- Case folding Remove case information for *non-text* uses: similar to lower casing but not identical; no context/language dependence

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- Implement expandably

Lessons from textcase

- Auto-escape math mode
- Handle \cite, \label, \ref, ...
- \NoCaseChange

Time to update . . .

- expl3 code now supports 8-bit input
- Wider use of \protected, particularly for actives
- Full Unicode range without needing extra support
- Language-dependent support a possible: probably for Fall '22

Something old, something new

Retained

- \MakeUppercase
- \MakeLowercase
- \NoCaseChange

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- \MakeUppercase
- \MakeLowercase
- \NoCaseChange

Added

- \MakeTitlecase
- \CaseSwitch
- \AddToNoCaseChangeList

