

siunitx development continues: 2024

Joseph Wright

`joseph@texdev.net`

Core features

- Parsing and formatting units
- Automatic number formatting
- Tabular alignment of numbers
- A single key–value interface

Examples

<code>\qty{10e3}{\joule\per\mole\per\kelvin}</code>	$10 \times 10^3 \text{ J mol}^{-1} \text{ K}^{-1}$
<code>\unit{kg.m.s^{-1}}\%</code>	kg m s^{-1}
<code>\num[uncertainty-mode = separate]{12345(6)}</code>	$12\,345 \pm 6$

History

- v0.6 2008-02-18 Initial test release on CTAN
- v1.0 2008-04-16 First stable release
- v2.0 2010-05-23 Complete re-write using expl3
- v3.0 2021-05-17 Second re-write: modular internals

Continued development

v3.1

- Multiple uncertainties

Continued development

v3.1

- Multiple uncertainties
- Polar complex numbers

Continued development

v3.1

- Multiple uncertainties
- Polar complex numbers
- Variable digit group size

Continued development

v3.1

- Multiple uncertainties
- Polar complex numbers
- Variable digit group size
- Finer control of rounding

Continued development

v3.2

- 'Calculator-like' exponent threshold

Continued development

v3.2

- 'Calculator-like' exponent threshold
- New SI prefixes: ronna, ronto, quetta, quecto

Continued development

v3.2

- ‘Calculator-like’ exponent threshold
- New SI prefixes: ronna, ronto, quetta, quecto
- Improved alignment in tabulars

Continued development

v3.3

- Yet more features for rounding

Continued development

v3.3

- Yet more features for rounding
- Asymmetrical uncertainties

Continued development

v3.3

- Yet more features for rounding
- Asymmetrical uncertainties
- Fine tuning of brackets

Continued development

v3.3

- Yet more features for rounding
- Asymmetrical uncertainties
- Fine tuning of brackets
- More features for ranges, etc.

Looking forward

Perhaps ...

- Parsing free text units
- More tricky uncertainties
- Tagging semantics
- ...