

hwemoji v1.0: pdfL^AT_EX emoji support

Hwy

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Introduction

- To the author’s knowledge, there was no package on CTAN to date that (a) enables Unicode emojis in pdfL^AT_EX and (b) supports emoji sequences. There is now.
- Emoji sequences are in general emojis formed of multiple consecutive Unicode characters. The details can be found in the specifications at <https://unicode.org/reports/tr51/>. For example, U+1FAF1 (👉) and U+1F3FD (🟪) side by side should form (👉🟪).
- This package makes use of the Twemoji project’s digital assets, as licensed under the CC-BY 4.0. The project can be found at <https://github.com/twitter/twemoji>.
- This package supports Twemoji’s implementation of Unicode emojis as of Unicode 14.0.0, with the exceptions of: U+0023--U+20E3, U+002A--U+20E3, U+0030--U+20E3, U+0031--U+20E3, U+0032--U+20E3, U+0033--U+20E3, U+0034--U+20E3, U+0035--U+20E3, U+0036--U+20E3, U+0037--U+20E3, U+0038--U+20E3, and U+0039--U+20E3. Supporting these emojis necessitates making the characters #, *, 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 active, which would be at best disastrous.

Troubleshooting

- U+00A9 and U+00AE are now rendered as the emojis © and ® respectively. If another version of these characters is preferred, override their definitions with `\DeclareUnicodeCharacter`.
- Wrap emojis in braces when passing as arguments. For example, to get $\phi_{👉}$, use `\phi_{👉}`, not `\phi_👉`.

Examples

A classic

98% of people can't solve this 😊

$$\text{🍇} + \text{🍇} + \text{🍇} = 3$$

$$\text{🍪} - \text{🍇} - \text{🍇} = 0$$

$$\text{🍷} = \mathbb{Z} \quad \text{🍔} = \text{🍷} / \text{🍪} \quad \text{🍷} = P^n(\mathbb{R})$$

$H^*(\text{🍷}; \text{🍔}) = \bigoplus_{k \in \mathbb{N}} H^k(\text{🍷}; \text{🍔})$ has a ring structure

$\text{🍷}(-, B) : \mathcal{C} \rightarrow \mathbf{Set}$ is contravariant

$\text{🍷}(A, B) = \{\phi : A \rightarrow B \mid \phi \text{ is a morphism}\}$

Given that 🍷 is the derived functor of 🍷 and the sequence

$$0 \rightarrow \text{🍷}_{\text{🍔}}(H_{i-1}(\text{🍷}; \text{🍔}), \text{🍷}) \rightarrow H^i(\text{🍷}; \text{🍷}) \xrightarrow{h} \text{🍷}_{\text{🍔}}(H_i(\text{🍷}; \text{🍔}), \text{🍷}) \rightarrow 0$$

is exact,

describe $H^*(\text{🍷}; \text{🍔})$ in terms of polynomial rings over 🍔 .

All supported emojis







