

The `superemoji` Package

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1 Overview

The `superemoji` package provides semantic emoji commands such as `\emoji{status-ok1}` instead of raw Unicode emoji in the source. Each semantic key (for example `status-ok1` or `emo-joy1`) is mapped to one or more Unicode emoji in an external JSON file that is compiled into \LaTeX macros by the package.

2 Requirements

- **Lua \LaTeX** — required for color emoji rendering via HarfBuzz
- **Noto Color Emoji** font — must be installed on your system

2.1 Installing Noto Color Emoji

Windows: Download from <https://fonts.google.com/noto/specimen/Noto+Color+Emoji> and install the `.ttf` file.

Linux (Debian/Ubuntu):

```
sudo apt install fonts-noto-color-emoji
```

Linux (Fedora):

```
sudo dnf install google-noto-emoji-color-fonts
```

macOS:

```
brew install --cask font-noto-color-emoji
```

3 Loading the package

Load the package with optional style selection:

```
\usepackage[style=color]{superemoji} % color emoji (default)
\usepackage[style=bw]{superemoji}    % black-and-white fallback
```

The macro `\emoji{<key>}` looks up the emoji defined for that key and typesets it in the appropriate font. If an unknown key is requested, a simple ? is shown as a fallback.

3.1 Package Options

style=color Uses Noto Color Emoji with HarfBuzz rendering for full-color emoji (default).

style=bw Uses Segoe UI Emoji for monochrome/black-and-white glyphs.

4 Semantic keys and subsets

Keys are organized by purpose. Examples:

- **Status and logs:** `status-ok1`, `status-error1`, `log-debug1`, `log-run1`.
- **GIS workflows:** `gis-select1`, `gis-buffer1`, `gis-snap1`.
- **Navigation and maps:** `map-right1`, `map-pin1`.
- **Emotions (emo subset):** `emo-joy1`, `emo-sad1`, `emo-angry1`, `emo-deadinside1`.
- **Flags:** `flag-de`, `flag-eu`, etc.

Using semantic keys keeps the L^AT_EX source readable and stable even if the underlying emoji choices change later.

5 Quick start

A minimal quick-start snippet:

```
\usepackage[style=color]{superemoji}
Status: \emoji{status-ok1}
```

Rendered in this document, the same commands look like:

Status: 
Debug:  GIS Select:  Happy:  Flag: .

6 Minimal example

The following minimal document shows how to load the package and use a few semantic emoji commands. **Compile with Lua^AT_EX.**

```
\documentclass{article}
\usepackage[style=color]{superemoji}

\begin{document}

Status: \emoji{status-ok1}

Debug:  \emoji{log-debug1}
GIS:    \emoji{gis-select1}

Mood:   \emoji{emo-joy1}, \emoji{emo-sad1}, \emoji{emo-deadinside1}

Flags:  \emoji{flag-de} \emoji{flag-eu} \emoji{flag-us}

\end{document}
```

Compile with:

```
lualatex yourdocument.tex
```

When compiled, this produces:

Status: 
Debug:   GIS: 
Mood: , , 
Flags:   

7 Troubleshooting

7.1 Emoji appear as boxes or question marks

- Ensure Noto Color Emoji is installed on your system.
- Verify installation with: `luaotfload-tool --find="Noto Color Emoji"`
- Make sure you're compiling with Lua^AT_EX, not pdf^AT_EX or Xe^AT_EX.

7.2 Unknown key returns ?

- Check that the key exists in `emoji-map.json`.
- Keys are case-sensitive: `status-ok1` \neq `Status-OK1`.