The **fontawesomescaled** package (0.1.0) – August 2, 2025

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https://github.com/cpierquet/latex-packages/tree/main/fontawesomescaled

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This package provides LaTeX support for (automatic) scaling `fontawesome(s)` icons (`0.85` by default).

To use `fontawesomescaled` in your document, include the package with `\usepackage{fontawesomescaled}`.

1 Usage and option

1.1 Global usage

The package don't load (by default) `fontawesome(x)` package, it define macro in order to use `fontawesome(x)` icons.
By default, a scale of `0.85` is applied, within a `scalebox`, and if the scale is set to `1`, *normal* insertion is used, w/o `scalebox`.
Few *options* (which can be combined) are available within the loading :

- with option [`versionfa=<version>`], `fontawesome<version>` can be automatically loaded;

- with option [`hook`], an automatic patch with `\smaller` macro of `relsize` package is used, when `\faIcon` is used;

- with option [`scale=<value>`], a global scale is applied.

```
\usepackage{fontawesomescaled}            %default loading (no fa + scale=0.85)
\usepackage[versionfa=1]{fontawesomescaled} %with fontawesome loaded
\usepackage[versionfa=5]{fontawesomescaled} %with fontawesome5 loaded
\usepackage[versionfa=6]{fontawesomescaled} %with fontawesome6 loaded
\usepackage[versionfa=7]{fontawesomescaled} %with fontawesome7 loaded
\usepackage[hook]{fontawesomescaled}       %\smaller (rellsize) usage for \faIcon{...}
\usepackage[scale=0.925]{fontawesomescaled} %with global scale of 0.925
```

```
\DefineFaScale{<value>}                    %change default value of the scaling
```

1.2 Used packages

`ifthen`, `graphicx`, `xkeyval`, `simplekv`, and optionally `relsize`, are loaded and used by the package.

1.3 Bugs

For bug reports and feature requests, report on the GitHub repository `https://github.com/cpierquet/latex-packages/issues`.

2 The macros

2.1 Normal version

Normal version of the main macro is `\faIconScaled` (relative to `\faIcon`!).
Starred version (for `fontawesome5`), and `[regular]` version can be specified.

```
For example, \faIconScaled{exclamation-circle}%
\faIconScaled[scale=1]{exclamation-circle}%
\faIconScaled[scale=0.5]{exclamation-circle}.
```

Result: For example, ❶❶₀.

```
%patched version of \faIcon(*)[regular]{<name>}    %if * and regular are available!

\faIconScaled(*)[regular=TF,scale=<value>]{<name>}
```

| scale=0.85 by default				
Name	**Initial macro**	**Initial version**	**Patched macro**	**Patched version**
file	`\faIcon{file}`	🗎 test	`\faIconScaled{file}`	🗎 test
	`\faIcon*{file}`	🗎 test	`\faIconScaled*{file}`	🗎 test
	`\faIcon[regular]{file}`	🗋 test	`\faIconScaled[regular]{file}`	🗋 test
	`\faIcon*[regular]{file}`	🗋 test	`\faIconScaled*[regular]{file}`	🗋 test
scale=0.66 with \DefineFaScale{0.66}				
Name	**Initial macro**	**Initial version**	**Patched macro**	**Patched version**
file	`\faIcon{file}`	🗎 test	`\faIconScaled{file}`	▪ test
	`\faIcon*{file}`	🗎 test	`\faIconScaled*{file}`	▪ test
	`\faIcon[regular]{file}`	🗋 test	`\faIconScaled[regular]{file}`	▫ test
	`\faIcon*[regular]{file}`	🗋 test	`\faIconScaled*[regular]{file}`	▫ test
scale=1.25 with \DefineFaScale{1.25}				
Name	**Initial macro**	**Initial version**	**Patched macro**	**Patched version**
file	`\faIcon{file}`	🗎 test	`\faIconScaled{file}`	🗎 test
	`\faIcon*{file}`	🗎 test	`\faIconScaled*{file}`	🗎 test
	`\faIcon[regular]{file}`	🗋 test	`\faIconScaled[regular]{file}`	🗋 test
	`\faIcon*[regular]{file}`	🗋 test	`\faIconScaled*[regular]{file}`	🗋 test

2.2   Alias version

Alias version of the main macro is `\faScaled` (relative to `\fa<alias>`!).
Starred version (for `fontawesome5`), and `[regular]` version can be specified.

```
For example, \faScaled{Eye}%
\faScaled[scale=1]{Eye}%
\faScaled[scale=0.5]{Eye}.
```

Result: For example, 👁👁👁.

```
%patched version of \fa<Alias>(*)[regular]        %if * and regular are available!

\faScaled(*)[regular=TF,scale=<value>]{<Alias>}
```

scale=0.85 by default				
Alias	**Initial macro**	**Initial version**	**Patched macro**	**Patched version**
File	`\faFile`	test	`\faScaled{File}`	test
	`\faFile*`	test	`\faScaled*{File}`	test
	`\faFile[regular]`	test	`\faScaled[regular]{File}`	test
	`\faFile*[regular]`	test	`\faScaled*[regular]{File}`	test

scale=0.66 with \DefineFaScale{0.66}				
Alias	**Initial macro**	**Initial version**	**Patched macro**	**Patched version**
File	`\faFile`	test	`\faScaled{File}`	test
	`\faFile*`	test	`\faScaled*{File}`	test
	`\faFile[regular]`	test	`\faScaled[regular]{File}`	test
	`\faFile*[regular]`	test	`\faScaled*[regular]{File}`	test

scale=1.25 with \DefineFaScale{1.25}				
Alias	**Initial macro**	**Initial version**	**Patched macro**	**Patched version**
File	`\faFile`	test	`\faScaled{File}`	test
	`\faFile*`	test	`\faScaled*{File}`	test
	`\faFile[regular]`	test	`\faScaled[regular]{File}`	test
	`\faFile*[regular]`	test	`\faScaled*[regular]{File}`	test

3 The code

```
1   % Author        : C. Pierquet
2   % licence       : Released under the LaTeX Project Public License v1.3c or later, see
    → http://www.latex-project.org/lppl.txt
3
4   \NeedsTeXFormat{LaTeX2e}
5   \ProvidesPackage{fontawesomescaled}[2025/08/02 0.1.0 Small patchs for scaling fontawesome icons]
6
7   %====HISTORY
8   % v 0.1.0  Initial version
9
10  %====PACKAGES
11  \RequirePackage{xkeyval}      %keyval for package
12  \RequirePackage{ifthen}       %tests
13  \RequirePackage{graphicx}     %for scalebox
14  \RequirePackage{simplekv}     %keyval for macro
15  \RequirePackage{relsize}      %for \smaller
16
17  %====OPTIONS
18  \newif\if@hook\@hookfalse
19  \DeclareOptionX{versionfa}[0]{\def\fascaled@fa@version{#1}}
20  \DeclareOptionX{scale}[0.85]{\def\fascaled@fa@scale{#1}}
21  \DeclareOptionX{hook}{\@hooktrue}
22  \DeclareOptionX*{}
23  \ExecuteOptionsX{versionfa,hook,scale}
24  \ProcessOptionsX\relax
25
26  %====FONTAWESOME
27  \ifnum\fascaled@fa@version=1
28    \RequirePackage{fontawesome}
29  \fi
30  \ifnum\fascaled@fa@version=5
31    \RequirePackage{fontawesome5}
32  \fi
33  \ifnum\fascaled@fa@version=6
34    \RequirePackage{fontawesome6}
35  \fi
36  \ifnum\fascaled@fa@version=7
37    \RequirePackage{fontawesome7}
38  \fi
39
40  %====KEYS
41  \defKV[faIconScaled]{scale=\def\faiconscale{#1}}
42  \setKVdefault[faIconScaled]{regular=false,scale=\fascaled@fa@scale}
43
44  %====MAIN MACROS
45  \NewDocumentCommand\faIconScaled{sO{}m}{%
46    \restoreKV[faIconScaled]%
47    \setKV[faIconScaled]{#2}%
48    \ifboolKV[faIconScaled]{regular}%
49      {%
50        \ifthenelse{\equal{\faiconscale}{1}}%
51          {\IfBooleanTF{#1}{\faIcon*[regular]{#3}}{\faIcon[regular]{#3}}}%
52          {%
53            \scalebox{\faiconscale}[\faiconscale]%
54            {\IfBooleanTF{#1}{\faIcon*[regular]{#3}}{\faIcon[regular]{#3}}}%
55          }%
56      }%
57      {%
58        \ifthenelse{\equal{\faiconscale}{1}}%
59          {\IfBooleanTF{#1}{\faIcon*{#3}}{\faIcon{#3}}}%
60          {\scalebox{\faiconscale}[\faiconscale]{\IfBooleanTF{#1}{\faIcon*{#3}}{\faIcon{#3}}}}%
61      }%
62  }
63
64  \NewDocumentCommand\faScaled{sO{}m}{%
65    \restoreKV[faIconScaled]%
66    \setKV[faIconScaled]{#2}%
67    \ifboolKV[faIconScaled]{regular}%
```

```latex
68      {%
69        \ifthenelse{\equal{\faiconscale}{1}}%
70          {\IfBooleanTF{#1}{\csname fa#3\endcsname*[regular]}{\csname fa#3\endcsname[regular]}}%
71          {%
72            \scalebox{\faiconscale}[\faiconscale]%
73            {\IfBooleanTF{#1}{\csname fa#3\endcsname*[regular]}{\csname fa#3\endcsname[regular]}}%
74          }%
75      }%
76      {%
77        \ifthenelse{\equal{\faiconscale}{1}}%
78          {\IfBooleanTF{#1}{\csname fa#3\endcsname*}{\csname fa#3\endcsname}}%
79          {%
80            \scalebox{\faiconscale}[\faiconscale]%
81            {\IfBooleanTF{#1}{\csname fa#3\endcsname*}{\csname fa#3\endcsname}}%
82          }%
83      }%
84  }
85
86  \NewDocumentCommand\DefineFaScale{m}{%
87    \setKVdefault[faIconScaled]{scale=#1}%
88  }
89
90  \if@hook
91    \RequirePackage{relsize}
92    \AddToHook{cmd/faIcon/before}{\begingroup\smaller}
93    \AddToHook{cmd/faIcon/after}{\endgroup}
94  \fi
95
96  \endinput
```