The **fontawesomescaled** package (0.1.1) – 04/08/2025

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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). It can also provide *universal* custom aliases compatible with several version of `fontawesome(s)`

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 (relsize) 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, ❶❶ₒ.

```
%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

2.3 Macro for creating universal alias with `fa<x>` version

Some icons have changed names between different versions of `fontawesome<x>`.
This macro can create *universal* alias with compatibility with different versions of `fontawesome<x>`.

```
\CreateAliasFa{<\globalalias>}%
  [<default value>]%
  {<fa macro>}%
  {<f5 macro>}%
  {<fa6 macro>}%
  {<fa7 macro>}
```

For example, the *ambulance* is named `\faAmbulance` for `fa/fa5` and is named `\faTruckMedical` for `fa6/fa7`.

```
\CreateAliasFa{\myfaambulance}%
  [nofa]                %w/o any fa package loaded
  {\faAmbulance}        %with fa loaded
  {\faAmbulance}        %with fa5 loaded
  {\faTruckMedical}     %with fa6 loaded
  {\faTruckMedical}     %with fa7 loaded
```

Result: `\myfaambulance` will produce :

- w/o `fontawesome<x>`: `\myfaambulance: nofa`

- with `fontawesome`: `\myfaambulance:`

- with `fontawesome5`: `\myfaambulance:`

- with `fontawesome6`: `\myfaambulance:`

- with `fontawesome6`: `\myfaambulance:`

3 The code

```latex
% Author        : C. Pierquet
% licence       : Released under the LaTeX Project Public License v1.3c or later, see
  → http://www.latex-project.org/lppl.txt

\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{fontawesomescaled}[2025/08/04 0.1.0 Small patchs for scaling fontawesome icons]

%====HISTORY
% v 0.1.1  Macro for alias fa<x>
% v 0.1.0  Initial version

%====PACKAGES
\RequirePackage{xkeyval}       %keyval for package
\RequirePackage{ifthen}        %tests
\RequirePackage{graphicx}      %for scalebox
\RequirePackage{simplekv}      %keyval for macro
\RequirePackage{relsize}       %for \smaller

%====OPTIONS
\newif\if@hook\@hookfalse
\DeclareOptionX{versionfa}[0]{\def\fascaled@fa@version{#1}}
\DeclareOptionX{scale}[0.85]{\def\fascaled@fa@scale{#1}}
\DeclareOptionX{hook}{\@hooktrue}
\DeclareOptionX*{}
\ExecuteOptionsX{versionfa,hook,scale}
\ProcessOptionsX\relax

%====FONTAWESOME
\ifnum\fascaled@fa@version=1
  \RequirePackage{fontawesome}
\fi
\ifnum\fascaled@fa@version=5
  \RequirePackage{fontawesome5}
\fi
\ifnum\fascaled@fa@version=6
  \RequirePackage{fontawesome6}
\fi
\ifnum\fascaled@fa@version=7
  \RequirePackage{fontawesome7}
\fi

%====KEYS
\defKV[faIconScaled]{scale=\def\faiconscale{#1}}
\setKVdefault[faIconScaled]{regular=false,scale=\fascaled@fa@scale}

%====MAIN MACROS
\NewDocumentCommand\faIconScaled{sO{}m}{%
  \restoreKV[faIconScaled]%
  \setKV[faIconScaled]{#2}%
  \ifboolKV[faIconScaled]{regular}%
    {%
      \ifthenelse{\equal{\faiconscale}{1}}%
        {\IfBooleanTF{#1}{\faIcon*[regular]{#3}}{\faIcon[regular]{#3}}}%
        {%
          \scalebox{\faiconscale}[\faiconscale]%
          {\IfBooleanTF{#1}{\faIcon*[regular]{#3}}{\faIcon[regular]{#3}}}%
        }%
    }%
    {%
      \ifthenelse{\equal{\faiconscale}{1}}%
        {\IfBooleanTF{#1}{\faIcon*{#3}}{\faIcon{#3}}}%
        {\scalebox{\faiconscale}[\faiconscale]{\IfBooleanTF{#1}{\faIcon*{#3}}{\faIcon{#3}}}}%
    }%
}

\NewDocumentCommand\faScaled{sO{}m}{%
  \restoreKV[faIconScaled]%
  \setKV[faIconScaled]{#2}%
```

```
68    \ifboolKV[faIconScaled]{regular}%
69      {%
70        \ifthenelse{\equal{\faiconscale}{1}}%
71          {\IfBooleanTF{#1}{\csname fa#3\endcsname*[regular]}{\csname fa#3\endcsname[regular]}}%
72          {%
73            \scalebox{\faiconscale}[\faiconscale]%
74            {\IfBooleanTF{#1}{\csname fa#3\endcsname*[regular]}{\csname fa#3\endcsname[regular]}}%
75          }%
76      }%
77      {%
78        \ifthenelse{\equal{\faiconscale}{1}}%
79          {\IfBooleanTF{#1}{\csname fa#3\endcsname*}{\csname fa#3\endcsname}}%
80          {%
81            \scalebox{\faiconscale}[\faiconscale]%
82            {\IfBooleanTF{#1}{\csname fa#3\endcsname*}{\csname fa#3\endcsname}}%
83          }%
84      }%
85  }
86
87  %====MACRO CHANGE LOCAL SCALE
88  \NewDocumentCommand\DefineFaScale{m}{%
89    \setKVdefault[faIconScaled]{scale=#1}%
90  }
91
92  %====MACRO HOOK GLOBAL WITH RELSIZE
93  \if@hook
94    \RequirePackage{relsize}
95    \AddToHook{cmd/faIcon/before}{\begingroup\smaller}
96    \AddToHook{cmd/faIcon/after}{\endgroup}
97  \fi
98
99  %====MACRO FOR (UNIVERSAL) ALIAS CREATING ?
100 \NewDocumentCommand\CreateAliasFa{mO{}mmmm}{%
101   %1 = gen macro / %2 = default / %3 = fa / %4 = fa5 / %5 = fa6 / %6 = fa7
102   \def#1{#2}%
103   \@ifpackageloaded{fontawesome}{\def#1{#3}}{}%
104   \@ifpackageloaded{fontawesome5}{\def#1{#4}}{}%
105   \@ifpackageloaded{fontawesome6}{\def#1{#5}}{}%
106   \@ifpackageloaded{fontawesome7}{\def#1{#5}}{}%
107 }
108
109 \endinput
```