## The **Imacs** Package

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 $1 \langle * \mathsf{package} \rangle$ 

**Description.** This package is used to clean up the preamble of  $IAT_EX$  files. Some preambles have a (large) number of definitions in them. To clean up the preamble, move the definitions in the preamble into a separate file, and use this package in import them into your preamble. Normally, **Imacs** would have a position that follows all packages for the document.

**Imacs** stands for <u>local macros</u>. Normally, the files referenced are in the same folder as the main source file; they should not (but can) be in the search path of  $LAT_EX$ .

**Demo files:** lmacs\_tst.tex (a simple latex source) and lmacs\_aeb.tex (a file that uses the web and exerquiz packages). These are found in the examples folder.

**Documentation and Code.** We begin by requiring kvoptions, this package does not test for the presence of a class file, so we can use it. It allows us to define key-values as options of the package.

2 \RequirePackage{kvoptions}[2009/07/21]

cfg With these keys, you can specify the file with the specified extension be imported. def For example, the following line

js

\usepackage[cfg=myconf,def=mydef,js=myjs]{lmacs}

will import (using \InputIfFileExists) the files myconf.cfg, mydef.def, and myjs.js. Multiple specifications of the same extension is permitted, for example,

\usepackage[def=mydef1,def=mydef2]{lmacs}

```
3 \let\LM@inputlist\@empty
```

\LM@input inputs #1.#2, while \LM@warning issues a package warning if #1.#2 is not found.

```
4 \newcommand{\LM@input}[2]{\InputIfFileExists{#1.#2}{}%
5 {\LM@warning{#1}{#2}}}
```

```
6 \newcommand{\LM@warning}[2]{\PackageWarning{lmacs}
```

```
7 {The file #1.#2 cannot be found}}
```

- !cfg For each of these options, we add the specified file to \LM@inputlist, this will be
- $\texttt{!def} \quad \texttt{executed at the end of the package. The three options \texttt{!cfg}, \texttt{!def}, \texttt{!js} \text{ do nothing}, \texttt{!def} \quad \texttt{!cfg}, \texttt{!def} \quad \texttt{!cfg}, \texttt{!def}, \texttt{!js} \text{ do nothing}, \texttt{!def} \quad \texttt{!cfg}, \texttt{!def} \quad \texttt{!cfg}, \texttt{!def} \quad \texttt{!def} \quad \texttt{!cfg}, \texttt{!def} \quad \texttt{!cfg} \quad$

```
!js making it easy to include, or not include a file.
```

```
8 \define@key{lmacs}{cfg}{\g@addto@macro\LM@inputlist{\LM@input{#1}{cfg}}}
9 \define@key{lmacs}{!cfg}{}
```

```
10 \define@key{lmacs}{def}{\g@addto@macro\LM@inputlist{\LM@input{#1}{def}}}
11 \define@key{lmacs}{!def}{}
```

```
12 \define@key{lmacs}{js}{\g@addto@macro\LM@inputlist{\LM@input{#1}{js}}}
```

```
13 \define@key{lmacs}{!js}{}
```

```
14 \ProcessKeyvalOptions{lmacs}
```

Once the options have been process, we execute the command \LM@inputlist which contains a list of the files to be input.

15 LM@inputlist

16  $\langle / \mathsf{package} \rangle$