

The **embedall** package*

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1 Introduction

This package is designed to help you storing your projects without losing anything. It uses the `embedfile` package in order to attach to the generated pdf file all files used in creating your project. In particular it can embed images, external `tex` files, external codes and most important the source file itself.

2 Options

If you use this package without specifying any option, `embedall` attaches by default all files it can. If you don't want to do so you have to use one (or more than one) of the following options. Every option attaches the files it refers to:

graphicx images included with the `\includegraphics` command of the `graphicx` package

listings external codes included with `\listinputlisting` command of the `listings` package

source the main source `tex` file

Note that the `embedall` package imports the `graphicx` and `listings` packages without any options so if you want to specify some options you have to do it before `\usepackage{embedall}` either with `\usepackage[options]{graphicx}` or with `\PassOptionsToPackage{options}{graphicx}` (the same for `listings`).

3 Commands

`\embedinput` This is the only new command defined by this package. It is the substitute of the

*This document corresponds to `embedall v1.0`, dated 2013/10/10.

\input one and it adds the feature of attaching the file to the pdf after inserting it in the tex source. It was not possible to directly redefine the \input command because it is often used by other packages to import their own source code so its redefinition would have the disadvantage of attaching also these files to the final document.

4 Implementation

Initial operations: declaration of packages, commands and options.

```

1
2 \RequirePackage{embedfile}
3 \RequirePackage{graphicx}
4 \RequirePackage{listings}
5 \RequirePackage{letltxmacro}
6
7 \newcommand\embedall@all{1}
8 \newcommand\embedall@graphicx{0}
9 \newcommand\embedall@list{0}
10 \newcommand\embedall@source{0}
11
12 \DeclareOption{graphicx}{\def\embedall@graphicx{1}\def\embedall@all{0}}
13 \DeclareOption{listings}{\def\embedall@list{1}\def\embedall@all{0}}
14 \DeclareOption{source}{\def\embedall@source{1}\def\embedall@all{0}}
15
16 \ProcessOptions
17

```

`\embedall@includegraphics` This macro is the modified version of `\includegraphics` command from the `graphicx` package with included the `\embedfile` command. First the original `\includegraphics` command is stored inside the not-user-accessible `\embedall@latex@includegraphics`.

```
18 \LetLtxMacro\embedall@latex@includegraphics\includegraphics
```

`\LetLtxMacro` is used (instead of simply `\let`) because some packages modify the `\includegraphics` command. For this reason you can not use the `*` variant of this command but you have to declare the `clip` option instead.

Then the `\embedall@includegraphics` is defined

```

19 \newcommand\embedall@includegraphics[2] [] {%
20   \embedfile[desc=image]{#2}
21   \embedall@latex@includegraphics[#1]{#2}%
22 }
23

```

`\embedall@listinputlisting` This macro is the modified version of `\listinputlisting` command from the listings package with included the `\embedfile` command. First the original `\listinputlisting` command is stored inside the not-user-accessible `\embedall@latex@listinputlisting`.

```
24 \LetLtxMacro\embedall@latex@listinputlisting\listinputlisting
```

Then the `\embedall@listinputlisting` is defined

```
25 \newcommand\embedall@listinputlisting[2] [] {%
26   \embedfile[desc=listing file]{#2}
27   \embedall@latex@listinputlisting[#1]{#2}%
28 }
29
```

`\embedinput` This command substitute the `\input` one, the added optional option gives the input file description in the generated pdf.

```
30 \DeclareRobustCommand\embedinput[2] [input file] {%
31   \input{#2}%
32   \embedfile[desc={#1}]{#2}%
33 }
34
```

Finally options are processed

```
35 \ifnum\embedall@all=1%
36   \def\embedall@graphicx{1}
37   \def\embedall@list{1}
38   \def\embedall@source{1}
39 \fi
40 \ifnum\embedall@graphicx=1%
41   \LetLtxMacro\includegraphics\embedall@includegraphics
42 \fi
43 \ifnum\embedall@list=1%
44   \LetLtxMacro\listinputlisting\embedall@listinputlisting
45 \fi
46
```

and the complete tex source file is also included if the source option is present.

```
47 \IfFileExists{./\jobname.tex}{%
48   \ifnum\embedall@source=1%
49     \embedfile[desc=main source file]{\jobname.tex}\fi}{}
```