

# The **chapterfolder** package\*

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## Abstract

This file describe the **chapterfolder** package. This package is intended for L<sup>A</sup>T<sub>E</sub>X users who must deal with complex folder structure.

## 1 Usage

The first command that you need is the `\usepackage{chapterfolder}`. This command include the **chapterfolder**.

`\cfpart`

The `\cfpart` command define a part, change the current folder and include a main file for the part. The syntaxe of this command is `\cfpart [<short name>] [<name>] [<folder name>] [<file name>]`.

`\cfpart*`

This command does the same think as `\cfpart` except that it use a define a part\*.

`\cfchapter`

The `\cfchapter` command define a chapter, change the current folder and include a main file for the chapter. The syntaxe of this command is `\cfchapter [<short name>] [<name>] [<folder name>] [<file name>]`.

`\cfchapter*`

This command does the same think as `\cfchapter` except that it use a define a chapter\*.

`\cfsection`

The `\cfsection` command define a section, change the current folder and include a main file for the section. The syntaxe of this command is `\cfsection [<short name>] [<name>] [<folder name>] [<file name>]`.

`\cfsection*`

This command does the same think as `\cfsection` except that it use a define a section\*.

`\cfssubsection`

The `\cfssubsection` command define a subsection, change the current folder and include a main file for the subsection. The syntaxe of this command is `\cfssubsection [<short name>] [<name>] [<folder name>] [<file name>]`.

`\cfssubsection*`

This command does the same think as `\cfssubsection` except that it use a define a subsection\*.

`\cfinput`

The command `\cfinput` include a file from within the current folder.

The command `\cfcurrentfolder` provide the path to the current folder.

The command `\cfinputfigure` include a file from within the folder **figure** within the current folder.

`\cfcurrentfolderfigure`

The command `\cfcurrentfolderfigure` provide the path to the current figure folder.

`\cfinputlistings`

The command `\cfinputlistings` include a file from within the folder

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\*This document corresponds to **chapterfolder** v2.0, dated 2005/11/24.

```

\cfcurrenfolerlistings
\cfinputalgorithms
\cfcurrenfoleralgorithms
\cffolderfigure
\cfaddFolder

```

`listings` within the current folder.

The command `\cfcurrenfolerlistings` provide the path to the current `listings` folder.

The command `\cfinputalgorithms` include a file from within the folder `algorithms` within the current folder.

The command `\cfcurrenfoleralgorithms` provide the path to the current `algorithms` folder.

The command `\cffolderfigure` change the current folder and include a main file. The syntaxe of this command is `\cffolderfigure {<folder name>} {<file name>}`.

The command `\cfaddFolder` define two command to deal with default folder. The syntaxe of this command is `\cfaddFolder {<command extension>} {<folder name>}`.

## 2 Compatibility commands

The following commands are available for backward compatibility :

```

\cfpartstar
\cfchapterstar
\cfsectionstar
\cfssubsectionstar

```

## 3 Implementation

`@cf@currentpos` This counter define the top of the stack path

```

1 \newcounter{@cf@currentpos}
2 \setcounter{@cf@currentpos}{0}

```

`\stackFolder<x>` These macro contains, when needed the path for the stack

```

3 \expandafter\def\csname stackFolder0\endcsname{}
4 \expandafter\def\csname stackFolder1\endcsname{}
5 \expandafter\def\csname stackFolder2\endcsname{}
6 \expandafter\def\csname stackFolder3\endcsname{}
7 \expandafter\def\csname stackFolder4\endcsname{}
8 \expandafter\def\csname stackFolder5\endcsname{}
9 \expandafter\def\csname stackFolder6\endcsname{}
10 \expandafter\def\csname stackFolder7\endcsname{}
11 \expandafter\def\csname stackFolder8\endcsname{}
12 \expandafter\def\csname stackFolder9\endcsname{}

```

`\@cfpush` This macro push a path onto the stack path

```

13 \def\@cfpush#1{%
14   \expandafter%
15   \def\csname stackFolder\arabic{@cf@currentpos}\endcsname{#1}%
16   \addtocounter{@cf@currentpos}{1}%
17 }

```

`\@cfpop` This macro pop a path from the stack path

```

18 \def\@cfpop{%
19   \addtocounter{@cf@currentpos}{-1}

```

```

20      \expandafter%
21      \def\csname stackFolder\arabic{@cf@currentpos}\endcsname{}%
22 }

\cfcurrenfoldert This macro define the current path
23 \newcommand{\cfcurrenfoldert}{%
24 \csname stackFolder0\endcsname%
25 \csname stackFolder1\endcsname%
26 \csname stackFolder2\endcsname%
27 \csname stackFolder3\endcsname%
28 \csname stackFolder4\endcsname%
29 \csname stackFolder5\endcsname%
30 \csname stackFolder6\endcsname%
31 \csname stackFolder7\endcsname%
32 \csname stackFolder8\endcsname%
33 \csname stackFolder9\endcsname%
34 }

\cfinput This macro define how to input a file from the current folder
35 \newcommand{\cfinput}[1]{\input{\cfcurrenfoldert#1}}

\cffolderinput This macro go into a folder and input a file
36 \newcommand{\cffolderinput}[2]{%
37     \@cfpush{#1}%
38     \cfinput{#2}%
39     \@cfpop%
40 }

\cfaddFolder This macro define a new default folder for some kind of data
41 \newcommand{\cfaddFolder}[2]{%
42     \expandafter\def\csname cfcurrenfoldert#1\endcsname{%
43         \cfcurrenfoldert/#2/%
44     }%
45     \expandafter\def\csname cfinput#1\endcsname##1{%
46         \input{\csname cfcurrenfoldert#1\endcsname##1}%
47     }%
48 }

\@chapterfolderfigure This macro define the default name of the folder for the figures
49 \newcommand{\@chapterfolderfigure}[1]{%
and then define three macros that access this folder
50 \cfaddFolder{figure}{\@chapterfolderfigure}
51 \newcommand{\cfincludographics}[2]{%
52     \includegraphics[#1]{\cfcurrenfoldertfigure/#2}%
53 }

\@chapterfolderlistings This macro define the default name of the folder for the listings
54 \newcommand{\@chapterfolderlistings}[1]{%
and then define two macros that access this folder
55 \cfaddFolder{listings}{\@chapterfolderlistings}

\@chapterfolderalgorithms This macro define the default name of the folder for the algorithms
56 \newcommand{\@chapterfolderalgorithms}[1]{}

```

and then define two macros that access this folder

```

57 \cfaddFolder{algorithms}{\@chapterfolderalgorithms}

```

**\cfpart** This macro is the main macro to include a part from within a folder

```

58 \newcommand{\cfpart}{\@ifstar
59   \cfpartstar%
60   \cfpartstd%
61 }

```

**\cfchapter** This macro is the main macro to include a chapter from within a folder

```

62 \newcommand{\cfchapter}{\@ifstar
63   \cfchapterstar%
64   \cfchapterstd%
65 }

```

**\cfsection** This macro is the main macro to include a section from within a folder

```

66 \newcommand{\cfsection}{\@ifstar
67   \cfsectionstar%
68   \cfsectionstd%
69 }

```

**\cfssubsection** This macro is the main macro to include a subsection from within a folder

```

70 \newcommand{\cfssubsection}{\@ifstar
71   \cfssubsectionstar%
72   \cfssubsectionstd%
73 }

```

**\cfpartstd** This macro go in a folder, create a part, include the default file and go out of the folder

```

74 \newcommand{\cfpartstd}[4][]{%
75 \ifthenelse{\equal{#1}{} }{\part{#2}}{\part[#1]{#2}}%
76 \cffolderinput{#3}{#4}%
77 }

```

**\cfpartstar** This macro go in a folder, create a part\*, include the default file and go out of the folder

```

78 \newcommand{\cfpartstar}[4][]{%
79 \ifthenelse{\equal{#1}{} }{\part*{#2}}{\part[#1]{#2}}%
80 \cffolderinput{#3}{#4}%
81 }

```

**\cfchapterstd** This macro go in a folder, create a chapter, include the default file and go out of the folder

```

82 \newcommand{\cfchapterstd}[4][]{%
83 \ifthenelse{\equal{#1}{} }{\chapter{#2}}{\chapter[#1]{#2}}%
84 \cffolderinput{#3}{#4}%
85 }

```

**\cfchapterstar** This macro go in a folder, create a chapter\*, include the default file and go out of the folder

```

86 \newcommand{\cfchapterstar}[4][]{%
87 \ifthenelse{\equal{#1}{} }{\chapter*{#2}}{\chapter*[#1]{#2}}%
88 \cffolderinput{#3}{#4}%
89 }

```

\cfsectionstd This macro go in a folder, create a section, include the default file and go out of the folder

```

90 \newcommand{\cfsectionstd}[4] []{%
91 \ifthenelse{\equal{#1}{} }{\section{#2}}{\section[#1]{#2}}%
92 \cffolderinput{#3}{#4}%
93 }

```

\cfsectionstart This macro go in a folder, create a section\*, include the default file and go out of the folder

```

94 \newcommand{\cfsectionstar}[4] []{%
95 \ifthenelse{\equal{#1}{} }{\section*{#2}}{\section*[#1]{#2}}%
96 \cffolderinput{#3}{#4}%
97 }

```

\cfssubsectionstd This macro go in a folder, create a subsection, include the default file and go out of the folder

```

98 \newcommand{\cfssubsectionstd}[4] []{%
99 \ifthenelse{\equal{#1}{} }{\subsection{#2}}{\subsection[#1]{#2}}%
100 %
101 }

```

\cfssubsectionstar This macro go in a folder, create a subsection\*, include the default file and go out of the folder

```

102 \newcommand{\cfssubsectionstart}[4] []{%
103 \ifthenelse{\equal{#1}{} }{\subsection*{#2}}{\subsection*[#1]{#2}}%
104 \cffolderinput{#3}{#4}%
105 }

```