# adddoc Package A custom way to have a listofappendix

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# I. Package Options

## Introduction

This document provides a detailed explanation of the options available in the adddoc package. Each option is described with its possible values and effects on document formatting and behavior.

### 1. AVAILABLE OPTIONS

### A. actif

- Values: true (default), false
- Effect: Enables the attach toggle when set to true or left empty, controlling whether the table of appendices is printed. Stores the value in \activ.

## B. pathappendix

- Values: Any valid file path string
- **Effect**: Defines the path for appendix files, stored in \appath, used to locate and include appendix files.

### C. code

- Values: true, false, or empty
- Effect: Enables the code toggle when set to true or left empty, allowing the inclusion of code listings using the listings package.

### D. logo

- Values: Any valid file path string
- **Effect**: Specifies the path to a logo file for appendix headers, stored in \appathlogo. If no logo is provided, the default omits the logo from the header.

## E. language

- Values:
  - fr: French
  - de: German
  - en: English
- Effect: Sets the document's language, affecting the table of appendices' names, such as Table des Annexes (French), Anhangsverzeichnis (German), and Table of Appendices (English). Stored in \doclanguage.

## F. fancyfooter

- Values: Any string
- Effect: Sets the footer text for appendix pages, stored in \fancyfooter.

## G. algo

- Values: true, false, or empty
- Effect: Enables the algo toggle when set to true or left empty, allowing the inclusion of algorithms using the algorithm2e package.

#### 2. **DEFAULT VALUES AND SETTINGS**

Logo Path: no (no logo provided)Appendix Path: { }

Language: fr (French)Fancy Footer: { }

# **II. Functionality of Toggled Options**

## 1. APPENDICES MANAGEMENT

When actif is set to true, appendices management is enabled using the titletoc package. This includes defining and customizing counters for chapters and appendices, and generating a table of appendices in the selected language.

## 2. Code Listings

If code is enabled, the listings package is configured for code snippets with custom settings for different programming languages and UTF-8 support.

- \lstlisting: Standard command for code listings.
- \lstcolor{color} {text}: Changes text color in code listings.

## 3. ALGORITHMS

Enabling algo configures the algorithm2e package for algorithms, customizing the list of algorithms title and setting up keywords and formatting for algorithm blocks.

## 4. PDF Inclusion

The package provides commands for including PDF files in appendices, with options for land-scape or portrait orientation, scaling, and offsets. The pathappendix and logo options determine file location and display settings.

# III. Appendix Commands

### 1. Appendix Structure in LaTeX

The adddoc package extends LaTeX's basic appendix functionality by introducing:

- Custom appendix counters
- A dedicated list of appendices (\listofappendixs)
- Commands to add appendices and center images within them

### 2. COMMANDS OVERVIEW

- \attachment{label} {title}: Adds an appendix entry with the specified title and label.
- \achapter{title}: Starts a new appendix chapter.
- \asection{label} {title}: Creates a new appendix section under a chapter.
- \lspapp{label}{title}{content}: Creates an appendix section in landscape mode.
- \centeredimg{width} { filepath}: Centers an image within an appendix section.

### PDF Inclusion

Different ways to embed a PDF document in the appendix

- \pdf[landscape mode] {ref} {title} {filename.pdf}: simple command, size = 0.8\textwidth
- \pdfsize[landscape mode] {scaling} {ref} {title} {filename.pdf}: Allows for explicit size control.
- \pdfoptions[options] {filename}: A more flexible command that allows detailed customization when embedding PDF files.

```
\pdfoptions[scale=0.9, offseth=-1cm, landscape=true, title={My
```

- scale: Specifies the scale of the PDF (default: 0.8).
- offseth: Sets the vertical offset (default: -2cm).
- offsetw: Sets the horizontal offset (default: 0cm).
- landscape: Indicates whether the PDF should be displayed in landscape mode (values: true or false, default: false).
- title: Specifies the title of the PDF section in the appendix.
- ref: Defines a reference label for the PDF section.

This command allows you to embed a PDF document with customized scaling, offset, and orientation. It also supports the addition of a title and reference label for easy identification in the document.

## 3. Customizing Appendices

### A. Counters

adddoc defines custom counters for clear and consistent numbering:

- achapter: Appendix chapter level (A, B, C, etc.)
- appendix: Individual appendices within chapters (1, 2, 3, etc.)

## B. List of Appendices

The list of appendices is customized using the titletoc package:

- \l@achapter[2] { . . . }: Defines appendix chapter appearance in the TOC.
- \l@appendix{\@dottedtocline{1}{2.5em}{2.3em}}: Formats individual appendix entries.

## 4. Example Usage

```
\listofappendixs % Generates the list of appendices
\appendix % Start the appendix section
\begin{achapter}{Technical Appendices}
    \asection{specs}{Technical Specifications}
    % Content here...
    \asection{data}{Data Tables}
    \centeredimg{0.9}{images/data_table.png}
    % Content here...
    \lspapp{landscapeApp}{Wide Table}{
        \begin{tabular}{...}
        % Large table content
        \end{tabular}
    }
}
\end{achapter}
```

### **Algorithm 1:** General calibration algorithm

# **Data:** n samples **Initialisation**

Create a voltage sequence of n samples Create the queues and the shared memory Start the camera and image processing Pause the image acquisition

## Main program

```
for i=1 to n do

Move the mirror according to the voltage sequence

Start image acquisition and wait until finished

P_i \leftarrow Q_i Read the coordinates from FIFO queue */
```

### End sequence

Close the processes, queues and shared memory Do something with the points  $P_i$ Write the result into a JSON file

```
\renewcommand{\tcc}[1]{\texttt{\*\hspace{0.5cm}#1\hspace{0.5cm}*/}}
\SetAlgoNlRelativeSize{-2}
\begin{algorithm}
                   \caption{General calibration algorithm}
                   \label{alq:calibration}
                   \DontPrintSemicolon
                   \KwData{$n$ samples}
                   \init{
                                      Create a voltage sequence of $n$ samples\;
                                      Create the queues and the shared memory\;
                                      Start the camera and image processing\;
                                      Pause the image acquisition \;
                   \min{\{ \ensuremath{\mbox{si=1} \ensuremath{\mbox{$\setminus$} \ensuremath{
                                      Move the mirror according to the voltage sequence\;
                                      Start image acquisition and wait until finished\;
                                      $P_i \qets Q_i$ \tcc{Read the coordinates from FIFO queue}\;
                   } }
                   \endpro{
                                      Close the processes, queues and shared memory\;
                                      Do something with the points $P_i$\;
                                      Write the result into a JSON file\;
\end{algorithm}
```

## 5. DEPENDENCIES

- titletoc: Customizes TOC entries.
- pdflscape, pdfpages: Manage landscape orientation and PDF embedding.
- etoolbox, ifthen, xkeyval: Handle package options and conditional logic.