stmconditionallox package description

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These are definitions for conditional lists of float objects for stmlatex. It creates commands that only create lists in case the float object type is really used in the document. It is build upon the total count package.

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1. Usage

1.1. Commands

There are standard LATEX commands to create lists of float objects:

- \listoffigures
- \listoftables

Additionally it is possible to create a list of code listings with a macro from the listings package.

• \lstlistoflistings

With

\usepackage{stmconditionallox}

a set of new commands is created:

- \conditionallistoffigures
- \conditionallistoftables
- \conditionallistoflistings

If these are used, the lists are only created, in case the specified float environments are really used in your document. Thus, it allows the creation of a standard preamble.

To properly create the lists, three compilation runs are required.

1.2 Options

Option loadlistings and noloadlistingse Set whether to load the listings package.

\usepackage[noloadlistings]{stmglossaries}

loadlistings is the default and loads the package. It is used in case noloadlistings is not set explicitly.

In case noloadlistings is set, the command \conditionallistoflistings is not defined.

Option newpage and nonewpage Set whether to create a new page after each list.

\usepackage[nonewpage]{stmglossaries}

newpage is the default and creates a new page. It is used in case **nonewpage** is not set explicitly.

2. Example

This section contains examples.

2.1. Figures

This is an example figure.

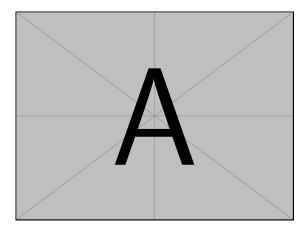


Figure 1: Example figure

2.2. Table

This is an example table.

Column 1 Column 2

Table 1: Example table

A. The code

A.1. stmconditionallox.sty

```
% Header
% These are definitions for the
% conditional creaton of lists of
% - Figures
% - Tables
% - Listings
% Based upon the total count package:
%
   https://ctan.org/pkg/totalcount
%
% Usage
%
 - Premble:
%
   - \usepackage{stmconditionallox}
%
% Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
%
                    Initial draft
%
%
 Contact:
           Martin Raedel, martin.raedel@dlr.de
%
%
%
%
           DLR Composite Structures and Adaptive Systems
                             __//__
                            /_/_/_/
%
                             //DLR
           www.dlr.de/fa/en
%
% Copyright (C) 2019-... DLR Composite Structures and
  Adaptive Systems
% Content
% Declare that this style file requires at least LaTeX
  version 2e.
\NeedsTeXFormat{LaTeX2e}
% Provide the name of your page, the date it was last updated
, and a comment about what it's used for
```

```
\ProvidesPackage{stmconditionallox}[2019/10/27 STMs custom
  LaTeX conditional list of definitions]
// -----
% Options
% ------
\newif\ifstmconditionallox@loadlistings
\DeclareOption{loadlistings}{\
  stmconditionallox@loadlistingstrue}
\DeclareOption{noloadlistings}{\
  stmconditionallox@loadlistingsfalse}
\verb|\ExecuteOptions{loadlistings}| \ \textit{\% default is to load listings}| \\
\newif\ifstmconditionallox@newpage
\DeclareOption{newpage}{\stmconditionallox@newpagetrue}
\DeclareOption{nonewpage}{\stmconditionallox@newpagefalse}
\ExecuteOptions{newpage} % default is to create new page
\ProcessOptions\relax
% -----
% Package
% -----
\ifstmconditionallox@loadlistings
 \@ifpackageloaded{listings}{}{%
   \RequirePackage{listings}
\fi
\@ifpackageloaded{listings}{%
 \RequirePackage[figure, table, lstlisting] { totalcount } %
}{ %
 \RequirePackage[figure,table]{totalcount}%
% ------
% Modules
% http://tex.stackexchange.com/a/297655/44634
% Erzeugt aufgrund von longtabu in dlrsecondpage ein leeres
 Tabellenverzeichnis
```

```
\newcommand\conditionallistoffigures{%
 \iftotalfigures\listoffigures\fi\
    ifstmconditionallox@newpage\newpage\fi%
\newcommand\conditionallistoftables{%
 \iftotaltables\listoftables\fi\ifstmconditionallox@newpage\
    newpage\fi %
\@ifpackageloaded{listings}{%
 \newcommand\conditionallistoflistings{%
   \iftotallstlistings\lstlistoflistings\fi\
      ifstmconditionallox@newpage\newpage\fi%
 } %
}{}
% That's it
\mbox{\% Finally, we'll use } \mbox{\endingut to indicate that LaTeX can}
  stop reading this file. LaTeX will ignore anything after
  this line.
\endinput
```