

stmdate package description

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v 20191103

Martin Rädcl

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These are the date definitions for `stmlatex`. It is build upon the `datetime2` package.

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1. Usage

1.1. Load the whole `stmdate` package

1.1.1. Description

This is an interface package which loads date styles and commands commonly required throughout document creation.

By default the package loads

- `stmdatestyles.sty`
- `stmdatecommands.sty`

See subsection 1.1.2 for options to change the default package behavior.

1.1.2. Options

Option *styles* This is a boolean option. Expected values are either `true` or `false`. It controls whether to load the predefined date styles.

`\usepackage[styles=true|false]{stmdate}`

`styles=true` is the default. It is used in case `styles=false` is not set explicitly.

Option *commands* This is a boolean option. Expected values are either `true` or `false`. It enables and disables the loading of specific date commands.

`\usepackage[commands=true|false]{stmdate}`

`commands=true` is the default. It is used in case `commands=false` is not set explicitly.

1.2. `stmdatestyles`

1.2.1. Description

This package contains styles for displaying dates in different formats. These can be used by commands from the underlying `datetime2` package, e.g. with the style definitions from subsection 1.2.2

`\DTMsetdatestyle{${STYLENAME$}}\DTMtoday`

or use the convenience commands from subsection 1.3.

1.2.2. Styles

These are the date styles and the respective output.

`versiondatestyle` 20191103

1.3. `stmdatecommands`

1.3.1. Description

These are commands to manipulate dates and their display.

1.3.2. Command `\formatdate`

Examples

<code>\formatdate[versiondatestyle]{\DTMToday}</code>	20191103
<code>\formatdate{\today}</code>	20191103
<code>\formatdate[versiondatestyle]{\today}</code>	20191103
<code>\formatdate{2019}[2][3]</code>	20190203
<code>\formatdate[versiondatestyle]{2019}[2][3]</code>	20190203
<code>\formatdate[versiondatestyle]{2019}[11][3]</code>	20191103
<code>\formatdate{2019}[2]</code>	20190201
<code>\formatdate[versiondatestyle]{2019}[2]</code>	20190201
<code>\formatdate{2019}[2][]</code>	20190201
<code>\formatdate[versiondatestyle]{2019}[2][]</code>	20190201
<code>\formatdate{2019}[][]</code>	20190101
<code>\formatdate[versiondatestyle]{2019}[][]</code>	20190101

A. The code

A.1. stmdate.sty

```

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Header                                                                %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
% This file includes date definitions
% Based upon the datetime2 package:
%   https://ctan.org/pkg/datetime2
%
% Usage
% - Premble:
%   - \usepackage{stmdate}
%
% 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
%
%              __/|__
%              /_/_/_/
%              www.dlr.de/fa/en      | / DLR
%
% 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{stmdate}[2019/10/27 STMs custom LaTeX date
  definitions]

% -----
% Package
% -----

\@ifpackageloaded{datetime2}{}{\RequirePackage[style=iso]{
  datetime2}}%
\@ifpackageloaded{kvoptions}{}{\RequirePackage{kvoptions}}%

% -----
% Options
% -----

\SetupKeyvalOptions{%
  family=stmdate,%
  prefix=stmdate@,%
  setkeys=\kvsetkeys,%
}

% Styles
\DeclareBoolOption[true]{commands}

% Styles
\DeclareBoolOption[true]{styles}

% Process options
\ProcessKeyvalOptions{stmdate}

% -----
% Modules
% -----

% Commands

```

```

\ifstmdate@commands
  \RequirePackage{stmdatecommands}
\fi

% Styles
\ifstmdate@styles
  \RequirePackage{stmdatestyles}
\fi

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% That's it %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

% Finally, we'll use \endinput to indicate that LaTeX can
% stop reading this file. LaTeX will ignore anything after
% this line.
\endinput

```

A.2. stmdatecommands.sty

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Header %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
% This file includes date definitions
% Based upon the datetime2 package:
%   https://ctan.org/pkg/datetime2
%
% Usage
%   - Preamble:
%     - \usepackage{stmdate}
%
% 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
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%            --/|--
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%            www.dlr.de/fa/en      || DLR
%
% 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{stmdatecommands}[2019/10/27 STMs custom
  LaTeX date commands definitions]

% -----
% Package
% -----
```

```

\@ifpackageloaded{datetime2}{}{\RequirePackage[style=iso]{
  datetime2}}%
\@ifpackageloaded{stmdatestyles}{}{\RequirePackage{
  stmdatestyles}}%
\@ifpackageloaded{xparse}{}{\RequirePackage{xparse}}%
\@ifpackageloaded{ifmtarg}{}{\RequirePackage{ifmtarg}}%

% -----
% Commands
% -----

% https://tex.stackexchange.com/a/33753
\DeclareDocumentCommand{\formatdate}{%
  0{versiondatestyle}%style - optional, default in brackets
  m% date/year
  o% month - optional
  o% day - optional
}{%
  \DTMsetdatestyle{#1} % The first (optional) argument is the
    style
  \IfNoValueTF{#3}% There is just one argument defined after
    the style - the date
  {%
    \@ifmtarg{#2}{}{#2}%
  }%
  {%
    \DTMdate{%
      \@ifmtarg{#2}{1}{#2}
      -%
      \IfNoValueTF{#3}{1}{\@ifmtarg{#3}{1}{#3}}%
      -%
      \IfNoValueTF{#4}{1}{\@ifmtarg{#4}{1}{#4}}%
    }%
  }%
}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% That's it %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

% Finally, we'll use \endinput to indicate that LaTeX can
% stop reading this file. LaTeX will ignore anything after
% this line.

```

```
\endinput
```


A.3. stmdatestyles.sty

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Header %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
% This file includes date definitions
% Based upon the datetime2 package:
%   https://ctan.org/pkg/datetime2
%
% Usage
%   - Preamble:
%     - \usepackage{stmdate}
%
% Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
%              Initial draft
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% Contact:   Martin Raedel, martin.raedel@dlr.de
%            DLR Composite Structures and Adaptive Systems
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% 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{stmdatestyles}[2019/10/27 STMs custom LaTeX
date style definitions]

% -----
% Package
% -----
```

```

\@ifpackageloaded{datetime2}{\RequirePackage[style=iso]{
  datetime2}}%

% -----
% Styles
% -----

\DTMnewdatestyle{versiondatestyle}{%
  %\renewcommand{\DTMdisplaydate}[4]{\number##1\number##2\
    number##3}%
  \renewcommand{\DTMdisplaydate}[4]{\number##1\DTMtwodigits
    ##2\DTMtwodigits##3}%
  \renewcommand{\DTMDisplaydate}{\DTMdisplaydate}%
}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% That's it %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

% Finally, we'll use \endinput to indicate that LaTeX can
% stop reading this file. LaTeX will ignore anything after
% this line.
\endinput

```