

stmdate package description

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v20191208

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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 20191208
```

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>	20191208
<code>\formatdate{\today}</code>	20191208
<code>\formatdate[versiondatestyle]{\today}</code>	20191208
<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

```

1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 %   https://ctan.org/pkg/datetime2
8 %
9 % Usage
10 % - Premble:
11 %   - \usepackage{stmdate}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %               Initial draft
15 %
16 % Contact:   Martin Raedel, martin.raedel@dlr.de
17 %               DLR Composite Structures and Adaptive Systems
18 %
19 %               __/|__
20 %               /_/_/_/_/
21 %               www.dlr.de/fa/en      | / DLR
22 %
23 % Copyright (C) 2019-... DLR Composite Structures and
24 %               Adaptive Systems
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

```

26 % Content %
27 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
28
29 % Declare that this style file requires at least LaTeX
    version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated
    , and a comment about what it's used for
33 \ProvidesPackage{stmdatetime}[2019/10/27 STMs custom LaTeX date
    definitions]
34
35 % -----
36 % Package
37 % -----
38
39 \@ifpackageloaded{datetime2}{\RequirePackage[style=iso]{
    datetime2}}%
40 \@ifpackageloaded{kvoptions}{\RequirePackage{kvoptions}}%
41
42 % -----
43 % Options
44 % -----
45
46 \SetupKeyvalOptions{
47   family=stmdatetime,%
48   prefix=stmdatetime@,%
49   setkeys=\kvsetkeys,%
50 }
51
52 % Styles
53 \DeclareBoolOption[true]{commands}
54
55 % Styles
56 \DeclareBoolOption[true]{styles}
57
58 % Process options
59 \ProcessKeyvalOptions{stmdatetime}
60
61 % -----
62 % Modules
63 % -----
64
65 % Commands

```

```

66 \ifstmdate@commands
67   \RequirePackage{stmdatecommands}
68 \fi
69
70 % Styles
71 \ifstmdate@styles
72   \RequirePackage{stmdatestyles}
73 \fi
74
75 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
76 % That's it %
77 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
78
79 % Finally, we'll use \endinput to indicate that LaTeX can
% stop reading this file. LaTeX will ignore anything after
% this line.
80 \endinput

```

A.2. stmdatecommands.sty

```
1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 %   https://ctan.org/pkg/datetime2
8 %
9 % Usage
10 % - Premble:
11 %   - \usepackage{stmdate}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %               Initial draft
15 %
16 % Contact:   Martin Raedel, martin.raedel@dlr.de
17 %               DLR Composite Structures and Adaptive Systems
18 %
19 %               --/|--
20 %               /_/_/_/_/
21 %               www.dlr.de/fa/en      // DLR
22 %
23 % Copyright (C) 2019-... DLR Composite Structures and
24 %               Adaptive Systems
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26 % Content %
27 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
28
29 % Declare that this style file requires at least LaTeX
30 %   version 2e.
31 \NeedsTeXFormat{LaTeX2e}
32
33 % Provide the name of your page, the date it was last updated
34 %   , and a comment about what it's used for
35 \ProvidesPackage{stmdatecommands}[2019/10/27 STMs custom
36 %   LaTeX date commands definitions]
37
38 % -----
39 % Package
40 % -----
```

```

39 \@ifpackageloaded{datetime2}{}{\RequirePackage[style=iso]{
    datetime2}}%
40 \@ifpackageloaded{stmdatestyles}{}{\RequirePackage{
    stmdatestyles}}%
41 \@ifpackageloaded{xparse}{}{\RequirePackage{xparse}}%
42 \@ifpackageloaded{ifmtarg}{}{\RequirePackage{ifmtarg}}%
43
44 % -----
45 % Commands
46 % -----
47
48 % https://tex.stackexchange.com/a/33753
49 \DeclareDocumentCommand{\formatdate}{%
50   0{versiondatestyle}%style - optional, default in brackets
51   m% date/year
52   o% month - optional
53   o% day - optional
54 }{%
55   \DTMsetdatestyle{#1}% The first (optional) argument is the
56     style
57   \IfNoValueTF{#3}% There is just one argument defined after
58     the style - the date
59     {%
60       \@ifmtarg{#2}{}{#2}%
61     }%
62     {%
63       \DTMdate{%
64         \@ifmtarg{#2}{1}{#2}
65         -%
66         \IfNoValueTF{#3}{1}{\@ifmtarg{#3}{1}{#3}}%
67         -%
68         \IfNoValueTF{#4}{1}{\@ifmtarg{#4}{1}{#4}}%
69       }%
70     }%
71 }
72 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
73 % That's it %
74 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
75
76 % Finally, we'll use \endinput to indicate that LaTeX can
77   stop reading this file. LaTeX will ignore anything after
78   this line.

```

77 \endinput

A.3. stmdatestyles.sty

```
1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 % Header %
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 %   https://ctan.org/pkg/datetime2
8 %
9 % Usage
10 % - Premble:
11 %   - \usepackage{stmdate}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
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21 %               www.dlr.de/fa/en      // DLR
22 %
23 % Copyright (C) 2019-... DLR Composite Structures and
24 %               Adaptive Systems
25 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
26 % Content %
27 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
28
29 % Declare that this style file requires at least LaTeX
30 %   version 2e.
31 \NeedsTeXFormat{LaTeX2e}
32
33 % Provide the name of your page, the date it was last updated
34 %   , and a comment about what it's used for
35 \ProvidesPackage{stmdatestyles}[2019/10/27 STMs custom LaTeX
36 %   date style definitions]
37
38 % -----
39 % Package
40 % -----
```

```

39 \@ifpackageloaded{datetime2}{\RequirePackage[style=iso]{
    datetime2}}%
40
41 % -----
42 % Styles
43 % -----
44
45 \DTMnewdatestyle{versiondatestyle}{%
46   %\renewcommand{\DTMdisplaydate}[4]{\number##1\number##2\
    number##3}%
47   \renewcommand{\DTMdisplaydate}[4]{\number##1\DTMtwodigits
    ##2\DTMtwodigits##3}%
48   \renewcommand{\DTMDisplaydate}{\DTMdisplaydate}%
49 }
50
51 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
52 % That's it %
53 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
54
55 % Finally, we'll use \endinput to indicate that LaTeX can
    stop reading this file. LaTeX will ignore anything after
    this line.
56 \endinput

```