# stmdate package description

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# 2023-09-13

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

- stmdatebase.sty
- stmdatecommands.sty
- stmdatestyles.sty

See subsubsection 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 subsubsection 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 20230913

#### 1.3. stmdatecommands

#### 1.3.1. Description

These are commands to manipulate dates and their display.

#### 1.3.2. Command \formatdate

#### **Examples**

```
\formatdate[versiondatestyle]{\DTMToday}
                                             20230913
\formatdate{\today}
                                             20230913
\formatdate[versiondatestyle]{\today}
                                             20230913
\formatdate{2019}[2][3]
                                             20190203
\formatdate[versiondatestyle] {2019}[2][3]
                                             20190203
\formatdate[versiondatestyle] {2019}[11][3]
                                             20191103
\formatdate{2019}[2]
                                             20190201
\formatdate[versiondatestyle]{2019}[2]
                                             20190201
\formatdate{2019}[2][]
                                             20190201
\formatdate[versiondatestyle]{2019}[2][]
                                             20190201
\formatdate{2019}[][]
                                             20190101
                                             20190101
\formatdate[versiondatestyle] {2019}[][]
```

#### A. The code

# A.1. stmdate.sty

```
2 % Header
                              %
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 % https://ctan.org/pkg/datetime2
8
9 % Usage
10 % - Preamble:
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 Lightweight Systems
18 %
19 %
                             __/|__
                            /_/_/_/
20 %
21 %
                             |/ DLR
            www.dlr.de/sy/en
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
26 % Content
```

```
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{stmdate}[2023/02/12 STMs custom LaTeX date definitions]
34
35 % -----
36 % Options
37 % -----
38
39 % Options package
40 \ensuremath{\mbox{\sc 0}} \ensuremath{\
41
42 % Option group
43 \SetupKeyvalOptions{%
           family=stmdate,%
44
45
           prefix=stmdate@,%
46
               setkeys=\kvsetkeys,%
47 }
48
49 % Styles
50 \DeclareBoolOption[true] {commands}
51
52 % Styles
53 \DeclareBoolOption[true] {styles}
54
55 % Process options
56 \ProcessKeyvalOptions{stmdate}
57
58 % -----
59 % Modules
60 % -----
61
62 % Load the base package
63 \@ifpackageloaded{stmdatebase}{}{%
64 \RequirePackage{stmdatebase}%
65 }%
66
67 % Commands
68 \ifstmdate@commands
69 \RequirePackage{stmdatecommands}
```

# A.2. stmdatebase.sty

```
2 % Header
4 %
5 % This file includes date definitions
6 % Based upon the datetime2 package:
7 % https://ctan.org/pkg/datetime2
8
9 % Usage
10 % - Preamble:
11 % - \usepackage{stmdatebase}
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 Lightweight Systems
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                          /_/_/_/
20 %
21 %
                           |/ DLR
           www.dlr.de/sy/en
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
26 % Content
```

```
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{stmdatebase}[2023/02/12 STMs custom LaTeX date
      definitions]
34
35 % -----
36 % Package
37 % -----
38
39 \quad \verb|\colored| a tetime 2}{} {\tt Require Package [style=iso] \{datetime 2\}\}|} \\
40
42 % That's it
44
45 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
      this file. LaTeX will ignore anything after this line.
46 \endinput
```

# A.3. stmdatecommands.sty

```
2 % Header
   4 %
   5 % This file includes date definitions
   6 % Based upon the datetime2 package:
   7 % https://ctan.org/pkg/datetime2
   8
   9 % Usage
10 % - Preamble:
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 Lightweight Systems
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19 %
20 %
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                                                                                                                              |/ DLR
21 %
                                                       www.dlr.de/sy/en
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
26 % Content
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{stmdatecommands}[2023/02/12 STMs custom LaTeX date
                        commands definitions]
34
36 % Package
37 % -----
38
39 \quad \texttt{\colored} \\ \texttt{\colore
40 \@ifpackageloaded{stmdatestyles}{}{\RequirePackage{stmdatestyles}}%
```

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

#### A.4. stmdatestyles.sty

```
2 % Header
   4 %
   5 % This file includes date definitions
   6 % Based upon the datetime2 package:
   7 % https://ctan.org/pkg/datetime2
   8 %
   9 % Usage
10 % - Preamble:
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 Lightweight Systems
18 %
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21 %
                                                                                                                                     |/ DLR
                                                          www.dlr.de/sy/en
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
26 % Content
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{stmdatestyles}[2023/02/12 STMs custom LaTeX date style
                          definitions]
34
36 % Package
37 % -----
38
39 \quad \texttt{\colored} \\ \texttt{\colore
40
```

```
41 % -----
42 % Styles
43 % -----
44
45 \quad \texttt{\DTMnewdatestyle{versiondatestyle}{\%}}
    46
47
    \verb|\command{\DTMdisplaydate}[4]{\number##1\DTMtwodigits##2\date}|
     DTMtwodigits##3}%
48
    \verb|\command{\DTMDisplaydate}{\DTMdisplaydate}||
49 }
50
52 % That's it
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
```