

The stb-titlepage Package *

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Abstract

The stb-titlepage package redefine the standard title page of the \LaTeX classes to add a logo at the top and an address line at the bottom. Options are provided to specify the type block sizes

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^{*}This document corresponds to stb-titlepage v1.0, dated 2023/01/05.

1 User Interface

1.1 Loading the stb-titlepage packages

The stb-titlepage package is loaded in the document preamble, for example:

\usepackage[\langle key=value list\rangle] \{ stb-titlepage \}

1.2 Options

The package input parameters are entered with key-values. The parameters, with default options and initial values are:

• titlepage = [true], false

This option corresponds with the global Lage Class option titlepage. Specifies whether a new page should be started after the document title or not. The article class does not start a new page by default, while report and book do. The default initial setup is titlepage = false.

- logo = none, [stb-logo-vert], \(logo file name \)
 Selection of the specific logo at the top of the title page. See USlogo-doc for a list of logos
- scale = [0.4]

Scale factor when logo graphics file is imported. The default initial setup is to scale the logo text and slogan to 8pts.

• vshift = [0cm]

The logo can be shifted up or downwards with the amount vspace.

• typeblock = a5, golden, wide, [std]

The following typeblocks are provided:

a5: ISO A4 paper with A5 type block,

golden: ISO A4 paper with golden ratio type block,

wide: Type block with 25 mm borders,

std: Standard LaTeX type block [default].

1.3 User macros

Only one command, \address, is provided in addition to the standard MTEX title page commands, \title, \author and \date.

Table 1: Page layout parameters

	A5 typ	e block	Golden	Golden section t									
	(a	5))									
Page width	W	= 210.2 mm	W	=	210.2 mm								
Page height	$H = \sqrt{2} W$	= 297.3 mm	$H = \sqrt{2}$	$\bar{2}W =$	297.3 mm								
Block width	w = H/2	= 148.7 mm	w = 2V	V/3 =	140.1 mm								
Block height	h = W	= 210.2 mm	h = H	-W/3 =	227.2 mm								
Side margin	s = (W - w)	/2 = 30.8 mm	s = W	/6 =	35.0 mm								
Top margin	t = 3(H - h)	$/8 = 32.7 \mathrm{mm}$	t = 3V	V/24 =	26.3 mm								
Foot margin	f = 5(H - h)	/8 = 54.4 mm	f = 5V	V/24 =	43.8 mm								

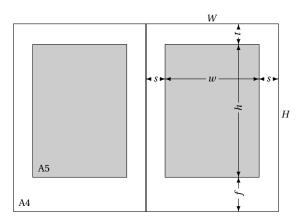


Figure 1: ISO A4 paper with A5 type block

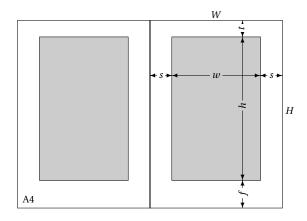


Figure 2: ISO A4 paper with golden ratio type block

1.4 Examples

Article tipe document:

```
\documentclass[12pt,a4paper]{article}
\usepackage{stb-titlepage}
\usepackage[default]{raleway}
\usepackage{textcomp}
\usepackage{graphicx}
\title{\textbf{Gear Parameter Selection}%
       \thanks{\textcopyright\ Stellenbosch University 2023}\\[1ex]
       \label{large-textsl} Machine Design B344}\\[2ex]
\author{Danie Els}
\verb|\address{Department of Mechanical and Mechatronic Engineering}| \\
        Stellenbosch University \\
        Private Bag X1, Matieland 7602,\\ South Africa.}
\date{2022/10/21}
\begin{document}
   \maketitle
   \tableofcontents
\end{document}
```



Gear Parameter Selection

Machine Design B344

Danie Els

2023/01/05

Department of Mechanical and Mechatronic Engineering Stellenbosch University Private Bag X1, Matieland 7602, South Africa.

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Booktype final year report:

```
\documentclass[12pt,a4paper]{book}
\usepackage[typeblock=golden]{stb-titlepage}
\usepackage[default]{raleway}
\usepackage{graphicx}
\title{\textbf{Golf Ball Launching Device}\\[2ex]
       \large Mechatronic Project 478\\Final Report\\[2ex]}
\author{\Large Author: John Doe\\
        \large 12345678 \\[5ex]
        \Large Supervisor: Dr. DNJ Els}
\address{Department of Mechanical and Mechatronic Engineering\\
        Stellenbosch University \\
        Private Bag X1, Matieland 7602, South Africa.}
\date{2023/01/05}
\begin{document}
   \maketitle
\end{document}
```



Golf Ball Launching Device

Mechatronic Project 478 Final Report

Author: John Doe 12345678

Supervisor: Dr. DNJ Els

2023/01/05

Department of Mechanical and Mechatronic Engineering Stellenbosch University Private Bag X1, Matieland 7602, South Africa.

2 Implementation: stb-titlepage

2.1 Identification

2.2 External packages

The following packages are required by stb-titlepage.

```
6 \RequirePackage{etoolbox}
7 \RequirePackage{ifthen}
8 \RequirePackage{kvoptions}
9 \RequirePackage{geometry}
```

The eso-pic loads xcolor internally causing option clashes.

```
10 \AtEndPreamble{\RequirePackage{eso-pic}}
```

We do not load the graphicx package, but requests its loading in the document preamble to prevent global option conflicts.

```
11 \AtBeginDocument{%
12 \@ifpackageloaded{graphicx}{}{%
13 \PackageError{stb-titlepage}{You must load the graphicx package}{}}}
```

2.3 Option declarations with kvoptions

23 \ProcessKeyvalOptions*

2.4 Title Page

```
\address Provide address command
        \ensuremath{\texttt{@address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{address}}\ensuremath{\texttt{addre
                                       25\newcommand\address[1]{\def\@address{#1}}
                                       26\newlength{\STB@xpos}
                                       27\newlength{\STB@ypos}
                                       28 \newsavebox{\STB@logobox}
\STB@setlogo Process logo options. Must be valid graphics file or none.
                                       29 \newcommand{\STB@setlogo}{%
                                                        \savebox{\STB@logobox}{\includegraphics[scale=\STB@scale]{\STB@logo}}}%
                                       31
                                                           32
                                                           \setlength{\STB@ypos}{\dimexpr -\ht\STB@logobox - \STB@vshift}}
                                       34\AtBeginDocument{\STB@setlogo}
\STB@putlogo Insertlogo.
                                       35 \newcommand{\STB@putlogo}{%
                                                                   \AddToShipoutPictureBG*{\AtStockUpperLeft{%
                                       36
                                                                                             \put(\STB@xpos,\STB@ypos){\usebox{\STB@logobox}}}}}
                                       37
     \maketitle Redefine the standard LTFX \maketitle command to include a logo and and address.
                                       38\if@titlepage
                                                        \renewcommand\maketitle{%
                                                        \begin{titlepage}%
                                       40
                                                                   \let\footnotesize\small
                                       41
                                                                 %\let\footnoterule\relax
                                       42
                                                                   \let \footnote \thanks
                                       43
                                                                   \STB@putlogo
                                       44
                                                                   \null\vfil
                                       45
                                                                   \vskip 30mm
                                       46
                                       47
                                                                   \begin{center}%
                                       48
                                                                               {\LARGE \@title \par}%
                                       49
                                                                               \vskip 3em%
                                       50
                                                                               {\large
                                                                               \lineskip .75em%
                                       51
                                                                               \begin{tabular}[t]{c}%
                                       52
                                                                                           \@author
                                       53
                                                                               \end{tabular}\par}%
                                       54
                                                                               \vfill
                                       55
                                                                               {\large \@date \par}%
                                       56
                                                                               \vskip 1.5em%
                                       57
                                                                               \ifx\@address\relax\else
                                       59
                                                                                           \vskip 1.5em%
                                                                                           {\normalsize\@address\par}
                                       60
                                                                               \fi
                                       61
                                                                   \end{center}\par
                                       62
                                                                   \@thanks
                                       63
                                                                   \vfil\null
                                       64
                                                        \end{titlepage}%
                                       65
                                                        \setcounter{footnote}{0}%
```

```
\global\let\thanks\relax
67
      \global\let\maketitle\relax
68
      \global\let\@thanks\@empty
69
70
      \global\let\@author\@empty
      \global\let\@date\@empty
71
72
      \global\let\@title\@empty
73
      \global\let\title\relax
      \global\let\author\relax
74
75
      \global\let\date\relax
76
      \global\let\and\relax
77\else
      \renewcommand\maketitle{\par
78
79
      \begingroup
          \verb|\c@fnsymbol\c@footnote|| %
80
          81
          \long\def\@makefntext##1{\parindent lem\noindent
82
83
              \hb@xt@1.8em{%
              \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
84
          \if@twocolumn
85
              \ifnum \col@number=\@ne
86
87
                  \@maketitle
88
              \else
                  \twocolumn[\@maketitle]%
89
              \fi
90
          \else
91
              \newpage
92
              \global\@topnum\z@
                                   % Prevents figures from going at top of page.
93
94
              \@maketitle
95
          \fi
96
          \thispagestyle{plain}\@thanks
97
      \endgroup
98
      \STB@putlogo
      \setcounter{footnote}{0}%
99
      \global\let\thanks\relax
100
      \global\let\maketitle\relax
101
      \global\let\@maketitle\relax
102
      \global\let\@thanks\@empty
103
      \global\let\@author\@empty
104
      \global\let\@date\@empty
105
      \global\let\@title\@empty
106
      \global\let\title\relax
107
108
      \global\let\author\relax
109
      \global\let\date\relax
110
      \global\let\and\relax}
111
      \def\@maketitle{%
112
          \newpage
          \null
113
          \vskip 30mm%
114
          \begin{center}%
115
              \let \footnote \thanks
116
              {\LARGE \@title \par}%
117
118
              \vskip 1.5em%
119
              {\large
```

```
\lineskip .5em%
120
                \begin{tabular}[t]{c}%
121
                     \@author
122
                \end{tabular}\par}%
123
                \vskip 1.5em%
124
                {\large \@date}%
125
                \ifx\@address\relax\else
126
127
                      \vskip 1em%
                     {\normalsize\@address\par}
128
                \fi
129
           \end{center}%
130
131
           \par
           \vskip 1.5em}
132
133 \ f i
```

2.5 Type Block

```
STB@typeblock@eval Evaluate typeblock option settings
```

```
134 \newcommand\STB@typeblock@eval{%
     136
     \ifthenelse{\equal{\STB@typeblock}{a5}}
                                            {\@nameuse{STB@typeblock@a5}}
137
     \ifthenelse{\equal{\STB@typeblock}{std}}
                                           {\@nameuse{STB@typeblock@std}}
                                                                         {%
138
         \PackageWarning{ustitle}{logo='\STB@typeblock' is invalid, default to 'std'}%
139
         \@nameuse{STB@typeblock@std}%
140
     }}}}
141
Type block: golden
142 \@namedef{STB@typeblock@golden}{%----- Golden type block ------
     \geometry{text={0.6667\paperwidth, 1.0787\paperwidth}}
143
     \geometry{hmarginratio=1:1}
144
     \geometry{vmarginratio=2:3}
145
146
     \geometry{marginparwidth=50pt}
     \PackageInfo{stb-titlepage}{Golden ratio type block}}
147
Type block: a5
148\@namedef{STB@typeblock@a5}{%------ A5 type block ----------
     \geometry{text={0.5\paperheight, \paperwidth}}
149
     \geometry{hmarginratio=1:1
150
     \geometry{vmarginratio=2:3
151
     \geometry{marginparwidth=50pt}
152
     \PackageInfo{stb-titlepage}{A5 type block}}
Type block: wide
154\@namedef{STB@typeblock@wide}{%------ Wide type block ---------
     \geometry{margin=25mm
155
156
     \geometry{marginparwidth=50pt}
     \PackageInfo{stb-titlepage}{Wide type block}}
Type block: std
158\@namedef{STB@typeblock@std}{%------ Latex default type block ------
     \PackageInfo{stb-titlepage}{Latex default type block}}
Initialize type block
160 \STB@typeblock@eval
```

161 (/pkg)
The end of this package.

Change History

v1.0										
General: Initial version										1