

# The `essaykit` package\*

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## 1 Introduction

The `essaykit` package provides a comprehensive set of commands for creating styled boxes, titles, quotes, and bibliographic references in L<sup>A</sup>T<sub>E</sub>X documents. It is particularly designed for academic and scientific documents requiring consistent styling and professional presentation.

## 2 Usage

### 2.1 Styled Boxes

`\rbox` The `\rbox` command creates customizable colored boxes:

```
\rbox[<options>]{<content>}
```

### 2.2 Main Titles

`\maintitle` The `\maintitle` command creates large, styled titles:

```
\maintitle[<options>]{<title text>}
```

### 2.3 Quotes

`\quoter` The `\quoter` command creates formatted quotations:

```
\quoter[<options>]{<quote text>}{<author>}
```

### 2.4 Rules and Sources

`\rrule` The `\rrule` command creates horizontal rules.

`\sources` The `\sources` command creates formatted bibliography sections:

```
\sources{<comma-separated list>}
```

## 2.5 Image Commands

`\logo` The `\logo` command inserts an image without caption:

`\logo{<filename>}{<width>}`

`\fig` The `\fig` command creates a captioned figure:

`\fig{<filename>}{<caption>}{<width>}`

## 2.6 Positioning Commands

`\placeleft` The `\placeleft` command positions content at absolute coordinates from the left margin:

`\placeleft{<distance>}{<content>}{<width>}`

`\placerright` The `\placerright` command positions content at absolute coordinates from the right margin:

`\placerright{<distance>}{<content>}{<width>}`

## 3 Implementation

1 `*package`

### 3.1 Package Dependencies

```
2 %
3 % new packages added
4 \RequirePackage{enumitem}
5 \RequirePackage{graphicx}
6 \RequirePackage{textpos}
7
8 % old packages
9 \RequirePackage{imakeidx}
10 \RequirePackage{amsmath}
11 \RequirePackage{caption}
12 \RequirePackage{wrapfig}
13 \RequirePackage{tcolorbox}
14 \RequirePackage{tikz}
15 \RequirePackage{chemfig}
16 \RequirePackage{xstring}
17 \RequirePackage{xcolor}
18 \RequirePackage{keyval}
19 \RequirePackage{xkeyval}
20 \RequirePackage[pdftex,
21 hidelinks,
22 breaklinks=true,
23 pdfpagemode=UseNone,
24 pdfstartview=FitH
25 ]{hyperref}
```

### 3.2 Color Definitions

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\*This document corresponds to `essaykit` v2.0, dated 2026/01/02.

```

26 \definecolor{greycolour}{HTML}{525252}
27 \definecolor{sharelatexcolour}{HTML}{882B21}
28 \definecolor{mybluecolour}{HTML}{394773}
29 \def\essaykit@family{ek}
30 \definecolor{lightgray}{rgb}{0.9, 0.9, 0.9}
31 \definecolor{softgray}{rgb}{0.7, 0.7, 0.7}
32 \definecolor{box-color}{rgb}{0.65, 0.8, 0.85}
33 \definecolor{darkgray}{rgb}{0.2, 0.2, 0.2}
34 \definecolor{softblue}{RGB}{70, 130, 180}

```

### 3.3 Key-Value System

```

35 \define@key{ek}{color}[lightgray]{\def\ek@color{#1}}
36 \define@key{ek}{textcolor}[black]{\def\ek@textcolor{#1}}
37 \define@key{ek}{title}[]{\def\ek@title{#1}}
38 \define@key{ek}{width}[\textwidth]{\def\ek@width{#1}}
39 \setkeys{ek}{color,textcolor,title,width}

```

`\rbox` The main box command with customizable options.

```

40 \newcommand{\rbox}[2][]{%
41   \def\ek@title{}%
42   \setkeys{ek}{#1}%
43   \ifx\ek@title\empty
44     \begin{tcolorbox}[%
45       colback=\ek@color!10,
46       colframe=\ek@color,
47       width=\ek@width,
48       arc=3.5mm,
49       boxrule=1pt
50     ]%
51     \color{\ek@textcolor}#2
52   \end{tcolorbox}%
53   \else
54     \begin{tcolorbox}[%
55       colback=\ek@color!10,
56       colframe=\ek@color,
57       coltitle=\ek@textcolor,
58       colbacktitle=\ek@color,
59       title=\ek@title,
60       width=\ek@width,
61       arc=3.5mm,
62       boxrule=1pt,
63       fonttitle=\bfseries
64     ]%
65     \color{\ek@textcolor}#2
66   \end{tcolorbox}%
67 \fi
68 }

```

### 3.4 Title Commands

```

69 \define@key{ek}{titlecolor}[black]{\def\ek@titlecolor{#1}}
70 \define@key{ek}{titlesize}[\Huge]{\def\ek@titlesize{#1}}
71 \define@key{ek}{titlespacing}[0.5cm]{\def\ek@titlespacing{#1}}
72 \setkeys{ek}{color,textcolor,title,width,titlecolor,titlesize,titlespacing}

```

`\maintitle` Creates styled main titles.

```
73 \newcommand{\maintitle}[2] [] {%
74   \setkeys{ek}{titlecolor,titlesize,titlespacing}%
75   \setkeys{ek}{#1}%
76   {\ek@titlesize \bfseries \textcolor{\ek@titlecolor}{#2}}\[\ek@titlespacing]%
77 }
```

### 3.5 Quote Commands

```
78 \define@key{ek}{authorcolor}[gray]{\def\ek@authorcolor{#1}}
79 \define@key{ek}{quotesize}[\large]{\def\ek@quotesize{#1}}
80 \define@key{ek}{quotespacing}[1em]{\def\ek@quotespacing{#1}}
81 \setkeys{ek}{color,textcolor,title,width,titlecolor,titlesize,titlespacing,authorcolor,quotes}
```

`\quoter` Creates formatted quotes with author attribution.

```
82 \newcommand{\quoter}[3] [] {
83   \setkeys{ek}{authorcolor,quotesize,quotespacing}
84   \setkeys{ek}{#1}
85   \begin{center}
86     \ek@quotesize \textit{#2}\[\ek@quotespacing]
87     \normalsize \color{\ek@authorcolor} -- #3 %name of the author
88   \end{center}
89 }
```

### 3.6 divider commands

`\rrule` Simple horizontal rule command.

```
90 \newcommand{\rrule}{
91   \par\noindent\rule{\textwidth}{0.22pt}
92 }
```

`\sources` Bibliography/sources command with hyperlink support.

```
93 \makeatletter
94 \newcommand{\sources}[1]{
95   \begin{tcolorbox}[colback=white, colframe=black!90, title=\section{Lähteet}, fonttitle=\bfseries]
96     \begin{itemize}
97       \@for\source:=#1\do{%
98         \item\source %
99       }%
100   \end{itemize}
101 \end{tcolorbox}
102 }
103 \makeatother
```

### 3.7 image commands

`\logo`

```
104 \newcommand{\logo}[2]{
105   \includegraphics[width=#2]{#1}
106 }
```

beginmacrocode

```

\fig
107 \newcommand{\fig}[3]{
108   \begin{figure}[h]
109     \centering
110     \includegraphics[width=#3]{#1}
111     \caption{#2}
112   \end{figure}
113 }
114 %   \end{macrocode}
115 % \end{macro}
116 %
117 %
118 %
119
120 % \begin{macro}{\placerright}
121 % Position from right margin: \placerright{distance}{content}
122 %   \begin{macrocode}
123 \newcommand{\placerright}[3]{
124   \begin{textblock*}{#3}(\dimexpr\paperwidth-#1-#3\relax,2cm)
125     #2
126   \end{textblock*}
127 }

\placeleft Position from left margin: widthdistance-width
128 \newcommand{\placeleft}[3]{
129   \begin{textblock*}{#3}(\dimexpr\paperwidth-#1-#3\relax,2cm)
130     #2
131   \end{textblock*}
132 }

133 \end{package}

```