# oststud — OST-Stud Style and Macros\*

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<sup>\*</sup>This document corresponds to oststud v0.2, last revised 2022/11/22.

## 1 Purpose of this Package

This package is made for the OST Studenten organization to provide an easy to use interface that gives a more consistent look and feel for the works produced by its the members. This package is the successor after the fusion of the old hsrstud package.

### 2 Package Options

dontrenew Do not renew existing LATEX commands and environments. This is useful when the package is loaded on a document that is already partially written.

textvecdiff Disables the "Nabla" or "Del" notation for vector derivatives. Instead the symbols  $\nabla$ ,  $\nabla$  •,  $\nabla$  ×,  $\nabla^2$ ,  $\nabla^2$  are be replaced with grad, div, curl and div grad.

textvecdiff Work in progress.

bfemph Work in progress.

bbprobability Work in progress.

scrtransforms Work in progress.

### 3 Usage

#### 3.1 Vectors and Vector Calculus

\vec In the physics used by electrical engineers it is common to use bold letters for \vec vectors. If the dontrenew option is set a new macro \bvec (bold \vec) that takes a  $\{\langle symbol \rangle\}$  defines the bold vector notation. Otherwise the default vector notation with the tiny ugly arrow  $(\vec{u})$  is replaced by bold and the arrow notation saved in \oldvec. In vector calculus it is common to denote unit vectors by putting a hat, so there is a macro \uvec that does just that:

$$\hat{\mathbf{u}} = \mathbf{u}/u$$
.

\dotp To differentiate the dot and cross products (between vectors) from normal \crossp product between scalars  $(a \cdot b \text{ and } a \times b)$ , the macros \dotp and \crossp provide a bold variant:

$$\mathbf{u} \cdot \mathbf{v}, \qquad \mathbf{u} \times \mathbf{v}.$$

\grad The macros \grad, \div and \curl provide symbols for the gradient, diver\div gence and curl operators used in vector calculus. If the option textvecdiff is \curl set, they symbols are written as words, otherwise they will he written (ab)using the Nabla symbol, i.e. by pretending that the symbol  $\nabla$  is a "vector" (sometime referred to as "del") of partial derivates:  $\nabla = (\partial_x, \partial_y, \partial_z)^T$ . Unless the option dontrenew is set, the division symbol is replaced by the divergence and the symbol  $\div$  is saved in \divsymb. For a scalar field  $\phi$  or a vector field  $\mathbf{F}$  the notation (in order) of the gradient, divergence and curl appear as follows:

$$\nabla \phi$$
,  $\nabla \cdot \mathbf{F}$ ,  $\nabla \times \mathbf{F}$ .

\laplacian Continuing with the (ab)use of the "Nabla" or "Del" notation, the there is a \vlaplacian macro \laplacian for the Laplacian operator

$$\nabla^2 \equiv \boldsymbol{\nabla} \cdot \boldsymbol{\nabla} \equiv \sum_i \partial_i^2.$$

Notice that the Nabla symbol is not bold, that is because the Laplacian operator results in a scalar value. Though, sometimes in electrodynamics the vector Laplacian is used (which applies the Laplacian operator to each component). To differentiate the two there is a macro  $\$ vlaplacian which uses the bold nabla symbol:  $\nabla^2$ . If the option dontrenew is set both symbols are replaced by div grad.

#### 3.2 Complex Numbers

Work in progress.

#### 3.3 Probability Operators

Work in progress.

#### 3.4 Transformation Operators

Work in progress.

$$\mathcal{L}\{f(t)\} = F(s) \circ - \bullet f(t) \bullet - \circ F(s)$$

#### 3.5 References

Work in progress.

#### 3.6 OST Colors

The official OST color palette provides the following "primary" or "accent" colors.



And then there are the other "design colors".



#### Sane Defaults

Work in progress.

### Implementation

### Dependencies and Parse Options

First, we have the dependencies necessary for typesetting.

- 1 \RequirePackage{xcolor}
- 2 \RequirePackage{amsmath}
- 3 \RequirePackage{amssymb}
- 4 \RequirePackage{bm}

This package also sets sane defaults to the following packages.

- 5 \RequirePackage{hyperref}
- 6 \RequirePackage{listings}

Then we create the options for the package.

```
7 \SetupKeyvalOptions{
     family=ost,
8
```

- prefix=ost@
- 10 }
- 11 \DeclareBoolOption[false] {dontrenew}
- 12 \DeclareBoolOption[false] {textvecdiff}
- 13 \DeclareBoolOption[false] {bfemph}
- 14 \DeclareBoolOption[false]{bbprobability}
- 15 % \DeclareBoolOption[false]{scrtransforms}
- 16 \ProcessLocalKeyvalOptions\*

#### 4.2 Bold emphasis

\emph Change the behaviour of \emph.

```
17 \ifost@bfemph
```

- 18 \ifost@dontrenew
- \PackageError{The options \noexpand\dontrenew and \noexpand\bfemph cannot be used at 19
- 20 \fi

```
\@nomath\em
       22
                  \if b\expandafter\@car\f@series\@nil
       23
       24
                      \itshape\else\bfseries\fi
       25
       26 \fi
      4.3 Vectors and Vector Calculus
 \vec Set up bold notation for vectors.
       27 \newcommand{\ost@vec}[1]{\mathbf{\bm{#1}}}
       28 \ifost@dontrenew
             \newcommand{\bvec}[1]{\ost@vec{#1}}
       29
       30 \else
             \let\oldvec\vec
              \renewcommand{\vec}[1]{\ost@vec{#1}}
       33 \fi
\uvec In vector calculus unit vectors are usually denoted by a hat.
       34 \mbox{ } 1]{\wec{\hat{1}}}
\dotp To differentiate them from \cdot and \times which are for scalars.
      35 \DeclareMathOperator{\dotp}{\boldsymbol\cdot}
       36 \DeclareMathOperator{\crossp}{\boldsymbol\times}
\grad Gradient of a vector valued scalar function.
       37 \ifost@textvecdiff
             \DeclareMathOperator{\grad}{grad}
       39 \else
              \DeclareMathOperator{\grad}{\vec{\nabla}}
       41 \fi
 \div Divergence operator. If the option dontrenew is a new macro \divg is defined.
      Otherwise \div is renamed to \divsymb.
       42 \ifost@textvecdiff
             \DeclareMathOperator{\ost@div}{div}
       43
       44 \ensuremath{\setminus} else
              \DeclareMathOperator{\ost@div}{\vec{\nabla}\dotp}
       47 \ifost@dontrenew
             \DeclareMathOperator{\divg}{\ost@div}
       49 \ \text{lse}
             \let\divsymb\div
              \renewcommand{\div}{\ost@div}
       51
       52 \fi
\curl Curl of a vector field.
       53 \ifost@textvecdiff
             \DeclareMathOperator{\curl}{curl}
       55 \ensuremath{\setminus} else
             \DeclareMathOperator{\curl}{\vec{\nabla}\crossp}
       56
       57\fi
```

\long\expandafter\def\csname em \endcsname{%

21

```
\laplacian Laplacian of a scalar and vector field.
\vlaplacian 58 \ifost@textvecdiff
                                             \DeclareMathOperator{\laplacian}{\div\grad}
                                             \DeclareMathOperator{\vlaplacian}{\div\grad}
                              61 \ensuremath{\setminus} \texttt{else}
                                             \DeclareMathOperator{\laplacian}{\nabla^2}
                                             63
                             64 \fi
                            4.4 Complex Numbers
                  \Re Replace the real and imaginary operators to look "normal", that is not using the
                  \Im Fraktur fonts.
                             65 \ifost@dontrenew\else
                                             \renewcommand{\Re}[1]{\mathrm{Re} \left\{#1\right\}}
                                             \renewcommand{\Im}[1]{\mathrm{Im} \left\{#1\right\}}
                             68 \fi
                                          Probability Operators
                            4.5
                     \E Expectation of a random variable.
                              69 \ifost@bbprobability
                             70
                                             \DeclareMathOperator{\ost@expectation}{\mathbb{E}}}
                             71 \else
                             72
                                             \DeclareMathOperator{\ost@expectation}{E}
                             73 \fi
                              74 \newcommand{\E}[1]{\ost@expectation\left\{\#1\right\}}
                \Var Variance of a random variable.
                              75 \ifost@bbprobability
                                            \DeclareMathOperator{\ost@variance}{\mathbb{V}}
                              77 \else
                                             \DeclareMathOperator{\ost@variance}{Var}
                             78
                              79 \fi
                              80 \newcommand{\Var}[1]{\ost@variance\left\{#1\right\}}
                  \Pr Probability operator.
                              81 \ifost@bbprobability
                                             \DeclareMathOperator{\ost@probability}{\mathbb{P}}
                              83 \ensuremath{\setminus} else
                              84
                                             \DeclareMathOperator{\ost@probability}{Pr}
                             85 \fi
                              \newcommand{\P}[1]{\ost@probability\left\{#1\right\}}
                              88 \else
                                             \label{eq:linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_line
                              89
                             90 \fi
                            4.6 Transformation Operators
      \fourier Fourier transform and its inverse.
    \ifourier 91 \DeclareMathOperator{\fourier}{\mathcal{F}}
```

92 \DeclareMathOperator{\ifourier}{\mathcal{F}^{-1}}

```
\laplace Laplace transform and its inverse.
          \ilaplace
                                    93 \DeclareMathOperator{\laplace}{\mathcal{L}}
                                     94 \DeclareMathOperator{\ilaplace}{\mathcal{L}^{-1}}
            \ztransf Z-transform and its inverse.
                                    95 \DeclareMathOperator{\ztransf}{\mathcal{Z}}
                                     96 \DeclareMathOperator{\iztransf}{\mathcal{Z}^{-1}}
            \hilbert Hilbert transform.
                                    97 \DeclareMathOperator{\hilbert}{\mathcal{H}}
  \corresponds Correspondence symbols.
\rcorresponds
                                  98 \newcommand{\corresponds}{%
                                                     \mbox{\setlength{\unitlength}{0.1em}%
                                    99
                                   100
                                                               \begin{picture}(20,10)%
                                   101
                                                                    \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \\ \\ \end{array} \end{array}
                                                                    \t(7,3){\line(1,0){7}}%
                                   102
                                                                    \t(16,3){\circle*{4}}%
                                   103
                                                               \end{picture}}}
                                   104
                                   105 \newcommand{\rcorresponds}{%
                                                     \label{lem:lemgth} $$ \mbox{\setlength{\unitlength}{0.1em}, $$ $\mbox{\setlength}$. $$
                                   106
                                                               \begin{picture}(20,10)%
                                   107
                                                                    \t(5,3){\circle*{4}}%
                                   108
                                                                    \put(7,3){\line(1,0){7}}%
                                   109
                                                                    \put(16,3){\circle{4}}}%
                                   110
                                                                \end{picture}}}
                                   111
                                   4.7
                                                  References
          \skriptum Reference material in the skriptum (lecture notes) of the course.
                   \sref 112 \newcommand{\ost@skriptum}{\PackageWarning{No \noexpand\skriptum given}}
                                   113 \newcommand{\skriptum}[1]{\gdef\ost@skriptum{#1}}
                                   114 \newcommand{\sref}[1]{%
                                                     \texttt{\textcolor{OSTBlackberry}{#1}}\nocite{\ost@skriptum}}
          \textbook Reference material in the textbook of the course.
                   \label{lem:linear_line_linear_line_linear_line_linear_line_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_line
                                   117 \newcommand{\textbook}[1]{\gdef\ost@textbook{#1}}
                                   118 \newcommand{\bref}[1]{%
                                   119
                                                     \texttt{\textcolor{OSTRaspberry}{#1}}\nocite{\ost@textbook}}
                                                  OST Colors
                                   4.8
                                   Define the colors according to the OST corporate design. The code was kindly
                                   colors".
```

stolen from H. Badertscher's OSTColors.sty [?]. First there are the "primary

```
120 \definecolor{OSTBlack}{RGB}{25,25,25}
121 \label{loss_constraints} $$121 \end{color_{OSTGray}_{RGB}_{198,198,198}}
122 \definecolor{OSTBlackberry}{RGB}{140,25,95}
123 \definecolor{OSTRaspberry}{RGB}{215,40,100}
```

```
Then the "design colors".
124 \definecolor{OSTPurple}{RGB}{149,96,164}
125 \definecolor{OSTDarkPurple}{RGB}{107,56,129}
126 \definecolor{OSTLightPurple}{RGB}{208,169,208}
127 \definecolor{OSTGreen}{RGB}{29,175,142}
128 \definecolor{OSTDarkGreen}{RGB}{0,126,107}
129 \definecolor{OSTLightGreen}{RGB}{167,213,194}
130 \definecolor{OSTRed}{RGB}{232,78,15}
131 \definecolor{OSTDarkRed}{RGB}{195,46,21}
132 \definecolor{OSTLightRed}{RGB}{243,154,139}
133 \definecolor{OSTBlue}{RGB}{0,115,176}
134 \definecolor{OSTDarkBlue}{RGB}{0,115,176}
135 \definecolor{OSTLightBlue}{RGB}{95,191,237}
136 \definecolor{OSTOrange}{RGB}{251,186,0}
137 \definecolor{OSTDarkOrange}{RGB}{209,143,0}
138 \definecolor{OSTLightOrange}{RGB}{253,214,175}
```

#### 4.9 Sane Defaults

139 \hypersetup{

First, set up hyperref to not look hideous.

```
colorlinks=true,
140
       linkcolor=OSTBlack,
141
       citecolor=OSTBlackberry,
142
       filecolor=OSTBlack.
143
       urlcolor=OSTDarkBlue,
144
145 }
Then create a listings style.
146 \lstdefinestyle{ost-base}{
       belowcaptionskip=\baselineskip,
147
       breaklines=true,
148
       frame=none,
149
       inputencoding=utf8,
150
       % margin
151
152
       xleftmargin=\parindent,
153
       % numbers
154
       numbers=left,
       numbersep=5pt,
155
       numberstyle=\ttfamily\footnotesize\color{OSTGray},
156
       % background
157
       backgroundcolor=\color{white},
158
159
       showstringspaces=false,
       % default language
160
       language=TeX,
161
       % break long lines, and show an arrow where the line was broken
162
163
       breaklines=true,
       postbreak=\mbox{\textcolor{OSTDarkBlue}{$\hookrightarrow$}\space},
164
       % font
165
       basicstyle=\ttfamily\small,
166
       identifierstyle=\color{OSTBlack},
167
       keywordstyle=\color{OSTBlue},
168
```

```
169    commentstyle=\color{OSTGray},
170    stringstyle=\color{OSTBlackberry},
171 }
Then we set this style to be default.
172 \lstset{style=ost-base, escapechar=`}
```

# **Change History**

v0.1	v0.2			
General: Initial version	1	General: Port features of hsrstud		1

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