

HUBerlin-bundle

Documents and Documentations for \LaTeX at the Humboldt-Universität zu Berlin

»Documentation must be regarded as an integral part of the process of design and coding. A good programming language will encourage and assist the programmer to write clear, self-documenting code, and even perhaps to develop and display a pleasant style of writing.« [3, p. 195]

Contents

1	Introduction —3
1.1	Installation of the bundle—3
1.2	Changelog—3
1.3	Copyright—3
1.3.1	Boilerplate / markdown-template—3
2	Preamble —4
I	GUIDELINE FOR USERS
3	Letter —6
3.1	.lco-file—6
3.2	.tex-file—8
3.3	Letter from markdown—9
II	GUIDE FOR CODERS
4	Letter —12
5	Boilerplate / Template for letters —18
6	Documentation preamble <style> —20
III	EXAMPLE FILES
7	Letter —35
7.1	From .tex—35
7.2	From .md—38

1 Introduction

Following documents or documentclasses are available:

- **letter** (HUBerlin-letter.cls)

1.1 Installation of the bundle

HUBerlin is part of the distributions [MiKTeX](#) and [TeXLive](#) – thus, you can easily install it using the respective package manager. If you would like to install HUBerlin-bundle into your local folder manually, do the following: Go to your terminal, browse to the folder of this bundle and run

```
make install
```

If you are using macOS you might be asked for your user account password for the installation.

Further options of this makefile are:

- **clean**: deletes all unnecessary files
- **cleanbundle**: deletes all files except .dtx, .md. You will get the plain version of this bundle. This might be helpful if you send the bundle to someone else.
- **ctan**: this will create a zip file which can be used to send to CTAN.
- **files**: will only create the files from the .dtx-scratch.
- **uninstall**: will erase the locally installed files.

This bundle is constantly updated. For hints, errors or suggestions use the GitHub repository <https://github.com/LukasCBossert/HUBerlin-bundle>.

1.2 Changelog

All notable changes to this project will be documented in the [README.md](#). This project **does not** adhere to [Semantic Versioning](#). The markdown syntax is inspired by the conventions proposed by keepachangelog.com.

1.3 Copyright

Various parts of this bundle have different copyrights.

1.3.1 Boilerplate / markdown-template

This template, forked from the pandoc-templates and <https://github.com/JensErat/pandoc-scr1ttr2> is dual-licensed, under both the GPL (v2 or higher, same as pandoc) and the BSD 3-clause license (included below).

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2 Preamble

This bundle consists of various files which are either generated by the core file (`.dtx`) or are part of the basic structure of this bundle. You can easily pick up the basic file structure from [fig. 2.1](#).

```
HUBerlin-bundle
├── HUBerlin-bundle.dtx..... code and documentation
├── HUBerlin-letter.tex ..... letter
├── HUBerlin-letter.lco ..... datafile for letter
├── HUBerlin-letter.pdf ..... letter
├── HUBerlin-letter-template.latex ..... template for conversion
├── HUBerlin-letter-markdown.pdf ..... converted letter from markdown
├── HUBerlin-letter.md ..... example markdown file
├── img ..... folder for images
│   └── texografie-logo.png..... logo of Lukas C. Bossert (www.TeXografie.de)
├── makefile..... makefile to generate all required files
└── README.md..... README file with information on installation
```

Figure 2.1: Structure of HUBerlin bundle

When you run the `makefile` you get all these various files described above.

A large, light gray, sans-serif capital letter 'I' is centered vertically and horizontally on the page. It serves as a background element for the title.

Guideline for Users

1 $\langle *example \rangle$

3 Letter

We give an example on how to create a letter.

3.1 .lco-file

2 $\langle *lco \rangle$

This is the file you load into your .tex letter. The information you provide here do normally not change from letter to letter. That's why we put it in a separate file.

The first line should provide this information.

3 `\ProvidesFile{HUBerlin-letter.lco}`

Now we set up the personal data.

We start with the name of the sender.

4 `\setkomavar{fromname}`

you can also write the position of this person in brackets, this is optional; [$\langle position \rangle$]

5 `[Wissenschaftlicher Mitarbeiter]`

But you need to give a name:

6 `{Dr. Max Mustermann}`

The mail address

7 `\setkomavar{fromemail}{max.mustermann@hu-berlin.de}`

For phone and fax number you only need to type the last digits.

8 `\setkomavar{fromphone}{1234}`

If you don't have a fax (or a phone), leave it empty. Do *not* delete it.

9 `\setkomavar{fromfax}{5678}`

And finally the URL.

10 `\setkomavar{fromurl}{www.hu-berlin.de}`

If your backaddress is to long – it will be set up automatically – you can redefine it.

11 `\setkomavar{backaddress}{HU Berlin\\`

12 `Unter den Linden 6\\`

13 `D-10099 Berlin}`

Selfexplaining: the faculty.

14 `\setkomavar{faculty}{%`

15 `Philosophische Fakultät`

16 `}`

17 `\setkomavar{institute}{%`

18 `\mbox{Institut für Briefvorlagen}`

19 `}`

```

20 \setkomavar{institute.additional}{Here you can more text.}

21 \setkomavar{institute.head}[Dekanin]{Prof. Dr. Maike Musterfrau}

22 \setkomavar{institute.head.mail}{maike.musterfrau@hu-berlin.de}

23 \setkomavar{local}{%
24   Mohrenstraße 40/41\\
25   Zimmer X\\
26   D-10117 Berlin}

27 \setkomavar{connections}{U Bahnhof Hausvogteiplatz (U2)}

28 \setkomavar{accessibility}{Hausvogteiplatz}

29 \setkomavar{signature}{%
30   \usekomavar{institute.head} --
31   \usekomavar{fromname}
32 }

33 \lco

```

Example 1

```

1  \ProvidesFile{HUBerlin-letter.lco}
2  \setkomavar{fromname}
3  [Wissenschaftlicher Mitarbeiter]
4  {Dr. Max Mustermann}
5  \setkomavar{fromemail}{max.mustermann@hu-berlin.de}
6  \setkomavar{fromphone}{1234}
7  \setkomavar{fromfax}{5678}
8  \setkomavar{fromurl}{www.hu-berlin.de}
9  \setkomavar{backaddress}{HU Berlin\\
10 Unter den Linden 6\\
11 D-10099 Berlin}
12 \setkomavar{faculty}{%
13 Philosophische Fakultät
14 }
15 \setkomavar{institute}{%
16   \mbox{Institut für Briefvorlagen}
17 }
18 \setkomavar{institute.additional}{Here you can more text.}
19 \setkomavar{institute.head}[Dekanin]{Prof. Dr. Maike
20   Musterfrau}
21 \setkomavar{institute.head.mail}{maike.musterfrau@hu-berlin.de}
22 \setkomavar{local}{%
23   Mohrenstraße 40/41\\
24   Zimmer X\\
25   D-10117 Berlin}
26 \setkomavar{connections}{U Bahnhof Hausvogteiplatz (U2)}
27 \setkomavar{accessibility}{Hausvogteiplatz}
28 \setkomavar{signature}{%
29   \usekomavar{institute.head} --
30   \usekomavar{fromname}
31 }
%%

```

3.2 .tex-file

```

34 \let *letter

35 \documentclass{HUBerlin-letter}

```

Now we load the personal data-file which has the ending .lco.

```

36 \LoadLetterOption{HUBerlin-letter}

```

If you have the HU font installed on your computer, you can load it, too:

```

37 % \setmainfont[%
38 %   BoldFont=ScalaSans-BoldLF,
39 %   Numbers=OldStyle]{ScalaSans-RegularLF}

```

Now following the reference information

```

40 \setkomavar{myref}{}

41 \setkomavar{yourref}{}

42 \setkomavar{yourmail}{}

43 \setkomavar{customer}{}

44 \setkomavar{invoice}{}

45 \setkomavar{subject}{Betreff}

46 \usepackage{blindtext}

```

We close the preamble and start the letter

```

47 \begin{document}

```

The address is written as `{\address}`

```

48 \begin{letter}{%
49   Erika Musterfrau\
50   Musterweg 43\
51   56789 Musterhausen%

```

Closing now again.

```

52 }

53 \opening{Sehr geehrte Frau Musterfrau,}

```

This is just some blindtext.

```

54 \blindtext[2]
55 \clearpage
56 \blindtext

```

Closing letter

```

57 \closing{Mit freundlichen Grüßen}

```

If you still have something to say/write.

```

58 \ps PS: \dots

```

Any amendment.

```

59 \encl{%
60   Anlage 1\
61   Anlage 2%

```



```
62 }
```

This is the distribution

```
63 \cc{%
64   Verteiler 1\\
65   Verteiler 2%
66 }
```

That's it. Done.

```
67 \end{letter}
68 \end{document}
```

And how does a example letter looks like?

Example 2

```
1  \documentclass{HUBerlin-letter}
2  \LoadLetterOption{HUBerlin-letter}
3  \setkomavar{myref}{}
4  \setkomavar{yourref}{}
5  \setkomavar{yourmail}{}
6  \setkomavar{customer}{}
7  \setkomavar{invoice}{}
8  \setkomavar{subject}{Betreff}
9  \usepackage{blindtext}
10 \begin{document}
11 \begin{letter}{%
12   Erika Musterfrau\\
13   Musterweg 43\\
14   56789 Musterhausen%
15 }
16 \opening{Sehr geehrte Frau Musterfrau,}
17 \blindtext[2]
18 \clearpage
19 \blindtext
20 \closing{Mit freundlichen Grüßen}
21 \ps PS: \dots
22 \encl{%
23   Anlage 1\\
24   Anlage 2%
25 }
26 \cc{%
27   Verteiler 1\\
28   Verteiler 2%
29 }
30 \end{letter}
31 \end{document}
```

```
69 \end{letter}
```

3.3 Letter from markdown

```
70 (*letter-md)
```

You need to have pandoc installed on your computer. To create letters via markdown and pandoc run from the command line:



`pandoc -pdf-engine=lualatex -template HUBerlin-letter-template.latex -o YOUR-FILE.pdf YOUR-FILE.md`

The `.md` file needs a section with metadata.

It starts and ends with three `---`. All necessary metadata information are listed inbetween.

71 `---`

72 `documentclass: HUBerlin-letter`

The following will load the `.lco`-file, you replace that with the name of your `.lco`-file.

73 `sender: HUBerlin-letter`

The information for the sender has to be written like this:

74 `addressee:`

75 `- Alexander von Humboldt`

76 `- Unter den Linden 6`

77 `- 10099 Berlin`

78 `---`

You find a list with possible options for this metadata information header below.

Now the content of your letter

79 `Thank you very much for your letter.`

Let's see how this example file looks like:

Example 3

```

1  ---
2  documentclass: HUBerlin-letter
3  sender: HUBerlin-letter
4  addressee:
5  - Alexander von Humboldt
6  - Unter den Linden 6
7  - 10099 Berlin
8  ---
9  Thank you very much for your letter.
```

80 `</letter-md>`

Here we close the example files.

81 `</example>`



Guide for Coders

```
1 < *cls >
```

4 Letter

```
2 < *letter >
```

We load **scrllttr2** [5] which is the documentclass for letters. Furthermore we set up some options.

```
3 \LoadClass[%
4   fontsize=10pt,
5   version=last,
```

If there is anything to debug, you can enable visualize

```
6   % visualize

7 ]{scrllttr2}
```

For debugging also uncomment the `\showfields{<fields>}` command.

```
8 % \showfields{head, address, location, reffline, foot}
```

Since we do want to compile with Lua¹TeX, we make sure that it will be compilable only with that.

```
9 \RequirePackage{ifluatex, luatex85}
```

Now a fix.¹

```
10 \ifx\directlua\relax
11   \let\directlua\UnDeFiNeD
12 \fi

13 \ifluatex
14 \else
15 \GenericError{HUBerlin}%
16 {Please use 'LuaLaTeX' as Compiler.^^J I abort here.}
17 \fi
```

We do not need many packages. The ones we need are loaded now.

```
18 \RequirePackage[english,ngerman]{babel}
```

Common package for handling figures is **graphicx** [1].

```
19 \RequirePackage{graphicx}
```

For loading fonts.

```
20 \RequirePackage{fontspec}
```

Verdana font as main font.

```
21 \setmainfont{Verdana}
```

For the wheelchair symbol we load **marvosym** [9]

```
22 \RequirePackage{marvosym}
```

To get the HU logo on the second and following pages we load **scrlayer-scrpage** [4].

```
23 \RequirePackage{scrlayer-scrpage}
```

¹ <https://tex.stackexchange.com/a/75065>

```

24 \DeclareNewLayer[
25   foreground,
26   textarea,
27   voffset=\useplength{firstheadvpos},
28   hoffset=\useplength{firstheadhpos},
29   width=\useplength{firstheadwidth},
30   mode=picture,
31   contents=\putUL{\raisebox{\dimexpr-\height}{\usekomavar{firsthead}}\hfill\thepage}
32 ]{\likefirstpage.head}
33 \AddLayersToPageStyle{scrheadings}{\likefirstpage.head}
34 \clearpaairofpagestyles

```

For better adjustments of the layout we load **geometry** [2].

```

35 \RequirePackage{geometry}
36 \geometry{%
37   a4paper
38   , left           =25mm
39   , bottom         =16mm
40   , foot           =4mm
41   , top            =77mm
42   , nohead
43   , textwidth      =117mm
44   , marginparsep   =0mm
45   , marginparwidth =0mm
46 }

```

Main Text and signature should be raggedright.

```

47 \renewcommand*{\raggedsignature}{\raggedright}
48 \raggedright

```

We also want to put the enclosures at the bottom of the page.²

```

49 \def\stopletter{}
50 \let\enclold\encl
51 \renewcommand\encl[1]{\vskipoptplusifilll\enclold{#1}}

```

We define new komavars.

First the possibility to name the faculty,

```

52 \newkomavar{faculty}
53 \newkomafont{faculty}{\bfseries\fontsize{8.5}{10}\selectfont}

```

then the institute

```

54 \newkomavar{institute}
55 \newkomafont{institute}{\fontsize{8.5}{10}\selectfont}

```

and further fields for information.

```

56 \newkomavar{institute.additional}

```

We pass the name of the head of the institute.

```

57 \newkomafont{institute.head}{\bfseries}
58 \newkomavar{institute.head}%

```

Its position will be written as the optional argument.

There is even the possibility to print the email-address onto the letter.

```

59 \newkomavar{institute.head.mail}%

```

² <https://tex.stackexchange.com/questions/77991/put-the-encl-at-the-bottom-of-the-page-lettre-cl>

Since there are many buildings with offices we tell where to find the sender

```
60 \newkomavar{local}
61 \setkomavar*{local}{Sitz:}
```

and how to get there.

```
62 \newkomavar{connections}
63 \setkomavar*{connections}{Verkehrsverbindungen:}
```

Furthermore we inform about office hours

```
64 \newkomavar{officehours}
65 \setkomavar*{officehours}{Sprechzeiten:}
```

and if there is accessibility for wheelchairs etc.

```
66 \newkomavar{accessibility}
67 \setkomavar*{accessibility}{{\large\reflectbox{\Wheelchair}} Eingang:}

68 \newkomavar{bank}
69 \setkomavar*{bank}{Bankverbindung:}
70 \setkomavar{bank}{Deutsche Bank PGK AG}
71 \newkomavar{IBAN}
72 \setkomavar{IBAN}{\mbox{IBAN DE95 1007 0848 0512 6206 01}}
73 \newkomavar{BIC}
74 \setkomavar{BIC}{BIC DEUTDEDB110}
```

Now we set the location field, which is the section on the right with additional information:

```
75 \setkomavar{location}{%}
```

First anything regarding the font

```
76 \raggedright
77 \fontsize{7}{8.5}\selectfont
78 % \begin{macrocode}
79 % and for the section of faculty, institute etc. we use \env{minipage}
80 % \begin{macrocode}
81 \begin{minipage}[t][64mm]{\useplength{locwidth}}
```

then the faculty

```
82 {\usekomafont{faculty}%
83 \usekomavar{faculty}\[1\baselineskip]}
```

and the institute.

```
84 {\usekomafont{institute}\usekomavar{institute}\[1\baselineskip]}
```

Now anything else regarding the institute.

```
85 \ifkomavareempty{institute.additional}
86 {}
87 {\usekomavar{institute.additional}\[1\baselineskip]}
```

What follows is the head of institute and its position name.

```
88 \ifkomavareempty{institute.head}
89 {}
90 {{\usekomafont{institute.head}%
91 \usekomavar{institute.head}}\%
92 \usekomavar*{institute.head}}
```

We close this section and the minipage.

```
93 \end{minipage}
```

Let's turn to further information.

For example date:

```
94 \textbf{\usekomavar*{date}}\
95 \usekomavar{date}\par
```

and the sender of the letter.

```
96 \ifkomavareempty{fromname}
97 {}
98 {\textbf{\usekomavar*{fromname}}\
99 \usekomavar{fromname}\par}
```

And the reference of correspondence.

```
100 \ifkomavareempty{myref}
101 {}
102 {\textbf{\usekomavar*{myref}}\
103 \usekomavar{myref}\par}
```

To complete this template we provide the possibility to name further reference fields.

```
104 \ifkomavareempty{yourref}
105 {}
106 {\textbf{\usekomavar*{yourref}}\
107 \usekomavar{yourref}\par}

108 \ifkomavareempty{yourmail}
109 {}
110 {\textbf{\usekomavar*{yourmail}}\
111 \usekomavar{yourmail}\par}

112 \ifkomavareempty{customer}
113 {}
114 {\textbf{\usekomavar*{customer}}\
115 \usekomavar{customer}\par}

116 \ifkomavareempty{invoice}
117 {}
118 {\textbf{\usekomavar*{invoice}}\
119 \usekomavar{invoice}\par}

120 \textbf{\usekomavar*{fromaddress}}\
121 \usekomavar{fromaddress}
122 \ifkomavareempty{fromphone}
123 {\par}
124 {\usekomavar*{fromphone}\usekomavar{fromphone}
125 \ifkomavareempty{fromfax}
126 {\par}
127 {\}}
128 \ifkomavareempty{fromfax}
129 {}
130 {\usekomavar*{fromfax}\usekomavar{fromfax}\par}
```

Next, emails and url:

```
131 \ifkomavareempty{institute.head.mail}
132 {}
133 {\usekomavar{institute.head.mail}
134 \ifkomavareempty{fromemail}
```

```

135  {\ifkomavareempty{fromurl}
136    {\par}
137    {\}}
138  {\}}

139  \ifkomavareempty{fromemail}
140    {}
141    {\usekomavar{fromemail}
142     \ifkomavareempty{fromurl}
143     {\par}
144     {\}}

145  \ifkomavareempty{fromurl}
146    {}
147    {\usekomavar{fromurl}\par}

```

Now the actual location of the sender

```

148  \ifkomavareempty{local}
149    {}
150    {\textbf{\usekomavar*{local}}\}
151    \usekomavar{local}\par}

```

The last information section should be pinned to the bottom.

```

152  \vfill

```

Inform your addressee about the connection possibilities.

```

153  \ifkomavareempty{connections}
154    {}
155    {\textbf{\usekomavar*{connections}}\}
156    \usekomavar{connections}\par}

157  \ifkomavareempty{officehours}
158    {}
159    {\textbf{\usekomavar*{officehours}}\}
160    \usekomavar{officehours}\par}

```

If there is a barrier free entrance, tell it.

```

161  \ifkomavareempty{accessibility}
162    {}
163    {\textbf{\usekomavar*{accessibility}}\}
164    \usekomavar{accessibility}\par}

```

And last the bank connection

```

165  \ifkomavareempty{bank}
166    {}
167    {\textbf{\usekomavar*{bank}}\}
168    \usekomavar{bank}\}
169    \usekomavar{IBAN}\}
170    \usekomavar{BIC}
171  }

```

Finally we close `\setkomavar{<location>}`

```

172  }

```

To fulfill the Corporate Design rules we adjust a few things.

```

173  \KOMAOptions{}

```



```

174    numericaldate =true
175    ,refline      =nodate
176    ,backaddress  =plain
177    ,parskip      =half-
178 }

```

Getting rid of the reference field

```
179 \removerefferds
```

Redefining length, which we ship to the end of the preamble.

```

180 \AtBeginDocument{
181 \setlength{refvpos}{110mm}
182 \setlength{refaftervskip}{opt}
183 \setlength{toaddrhpos}{25mm}
184 \setlength{firstheadhpos}{\uselength{toaddrhpos}}
185 \setlength{lochpos}{15mm}
186 \setlength{locvpos}{\uselength{toaddrvpos}}
187 \addtoplength{locvpos}{.75\baselineskip}
188 \setlength{locwidth}{45mm}
189 \setlength{locheight}{232mm}
190 }

```

Now resetting or pre-defining some variables.

First we set the head of the first page.



You need to have the logo of the HU stored on your computer!

```

191 \setkomavar{firsthead}{%
192 \includegraphics[width=148mm]{HUBerlin-logo.png}%
193 }

194 \setkomavar{backaddressseparator}{~\textbar~}

195 \setkomavar{fromphone}{0000}
196 \setkomavar*{fromphone}{Telefon +49 [30] 2093-}

197 \setkomavar{fromfax}{0000}
198 \setkomavar*{fromfax}{Telefax +49 [30] 2093-}

199 \setkomavar*{fromaddress}{Postanschrift:}
200 \setkomavar{fromaddress}{%
201 Humboldt-Universität zu Berlin\\
202 Unter den Linden 6\\
203 D-10099 Berlin}

204 \setkomavar*{date}{Datum:}

205 \setkomavar*{fromname}{Bearbeiter:}

206 \setkomavar*{myref}{Geschäftszeichen:}

207 \setkomavar*{enclseparator}{Anlage}

208 \setkomavar*{ccseparator}{Kopie an}

209 % \RequirePackage{hyperref}
210 % \AtBeginDocument{{

```

```

211 % \usekomavar[\def\author]{fromname}
212 % \usekomavar[\def\subject]{subject}
213 % \hypersetup{%
214 %     pdftitle           = {\subject},
215 %     pdfauthor          = {\author},
216 %     pdfsubject         = {\subject},
217 %     pdfkeywords        = {\author, \subject},
218 %     pdflang            = de,
219 %     pdfdisplaydoctitle = true,
220 %     colorlinks         = true,
221 %     plainpages         = false,
222 %     hypertexnames      = false,
223 %     unicode,
224 % }
225 % }}

226 </letter>

227 </cls>

228 <*template>

```

5 Boilerplate / Template for letters

```

229 <*letter-md>

230 \documentclass{HUBerlin-letter}

```

We predefine two variables.

```

231 \newkomavar{opening}
232 \newkomavar{closing}
233 \setkomavar{opening}{Sehr geehrte Damen und Herren}
234 \setkomavar{closing}{Mit freundlichen Grüßen}

235 $for(letteroption)$
236 \LoadLetterOption{$letteroption$}
237 $endfor$
238 $if(sender)$\LoadLetterOption{$sender$}$endif$
239 $if(adresseeimage)$\setkomavar{adresseeimage}{$adresseeimage$}$endif$
240 $if(backaddress)$\setkomavar{backaddress}{$backaddress$}\KOMAOPTIONS{backaddress=true}$endif$
241 $if(fromalign)$\KOMAOPTIONS{fromalign=$fromalign$}$endif$
242 $if(customer)$\setkomavar{customer}{$customer$}$endif$
243 $if(date)$\setkomavar{date}{$date$}$endif$
244 $if(fromaddress)$\setkomavar{fromaddress}{$fromaddress$}$endif$
245 $if(frombank)$\setkomavar{frombank}{$frombank$}$endif$
246 $if(fromemail)$\setkomavar{fromemail}{$fromemail$}\KOMAOPTIONS{fromemail=true}$endif$
247 $if(fromfax)$\setkomavar{fromfax}{$fromfax$}\KOMAOPTIONS{fromfax=true}$endif$
248 $if(fromlogo)$\setkomavar{fromlogo}{$fromlogo$}\KOMAOPTIONS{fromlogo=true}$endif$
249 $if(frommobilephone)$\setkomavar{frommobilephone}{$frommobilephone$}\KOMAOPTIONS{frommobilephone=true}$endif$

```

```

250 $if(fromname)$\setkomavar{fromname}{${fromname}$}$endif$
251 $if(fromphone)$\setkomavar{fromphone}{${fromphone}$}\KOMAOptions{fromphone=true}$endif$
252 $if(fromurl)$\setkomavar{fromurl}{${fromurl}$}\KOMAOptions{fromurl=true}$endif$
253 $if(fromzipcode)$\setkomavar{fromzipcode}{${fromzipcode}$}$endif$
254 $if(invoice)$\setkomavar{invoice}{${invoice}$}$endif$
255 $if(location)$\setkomavar{location}{${location}$}$endif$
256 $if(myref)$\setkomavar{myref}{${myref}$}$endif$
257 $if(myrefname)$\setkomavar*{myref}{${myrefname}$}$endif$
258 $if(place)$\setkomavar{place}{${place}$}$endif$
259 $if(PPcode)$\setkomavar{PPcode}{${PPcode}$}$endif$
260 $if(signature)$\setkomavar{signature}{${signature}$}$endif$
261 $if(specialmail)$\setkomavar{specialmail}{${specialmail}$}$endif$
262 $if(subject)$\setkomavar{subject}{${subject}$}$endif$
263 $if(title)$\setkomavar{title}{${title}$}$endif$
264 $if(yourmail)$\setkomavar{yourmail}{${yourmail}$}$endif$
265 $if(yourref)$\setkomavar{yourref}{${yourref}$}$endif$
266 $if(opening)$\setkomavar{opening}{${opening}$}$endif$
267 $if(closing)$\setkomavar{closing}{${closing}$}$endif$
268 $if(firstfoot)$\setkomavar{firstfoot}{${firstfoot}$}$endif$

```

Ok, let's sum up the possible options you can use to pass data to the letter:

- addresseeimage
- backaddress
- customer
- date
- fromaddress
- frombank
- fromemail
- fromfax
- fromlogo
- frommobilephone
- fromname
- fromphone
- fromurl
- fromzipcode
- invoice
- location
- myref
- myrefname
- place
- PPcode
- signature
- specialmail
- subject
- title
- yourmail
- yourref
- opening
- closing

- firstfoot

Sometimes you might not have an addressee – we are checking this, too.

```
269 $if (addressee) $
270 $else$
271 \KOMAOptions{addrfield=false}
272 $endif$
```

Now the actual content of the letter

```
273 \begin{document}
274 \begin{letter}{%
275 $for (addressee) $
276 $addressee$$sep$\\
277 $endfor$
278 }
279 $for (include-before) $
280 $include-before$
281 $endfor$
282 \opening{\usekomavar{opening}}
283 $body$
284 \closing{\usekomavar{closing}}
285 $if (ps) $\ps{$ps$}$endif$
286 $if (encl) $\encl{$encl$}$endif$
287 $for (include-after) $$include-after$$endfor$
288 \end{letter}
289 \end{document}

290 </letter-md>
291 </template>
```

6 Documentation preamble <style>

```
292 <*sty>
293 <*style>
294 \makeatletter
295 \addtolength\marginparwidth{-40pt}
296 \addtolength\marginparsep{4mm}
297 \addtolength\oddsidemargin{-20pt}
298 \addtolength\evensidemargin{-20pt}
299 \let\PrintDescribeMacro=\@gobble
300 \let\PrintDescribeEnv=\@gobble
301 % \def\Describe@Macro#1{\endgroup
302 % %\marginnote{\PrintDescribeMacro{#1}}%
303 % \SpecialUsageIndex{#1}\@esphack\ignorespaces%
304 % }
305 %\def\Describe@Env#1{\endgroup
306 % %\marginnote{\PrintDescribeEnv{#1}}%
307 % \SpecialEnvIndex{#1}\@esphack\ignorespaces%
```

```

308 %      }
309 \makeatother
310 \AtBeginDocument{\normalmarginpar}
311 \setlength\MacrocodeTopsep{.5\baselineskip}
312 \setlength\MacroIndent{6mm}
313
314
315 \RequirePackage{luatexbase}
316 \RequirePackage[ngerman,english]{babel}
317 \RequirePackage{calc}
318
319 \RequirePackage[
320   paper      = a4paper,    % - use A4 paper size
321   foot       = 2cm,
322   inner      = 3cm,        % - total body: left margin (odd pages)
323   top        = 3cm,        % - total body: top margin
324   outer      = 3cm,        % - total body: right margin (odd pages)
325   bottom     = 3cm,        % - total body: bottom margin
326   marginparwidth = 2cm,    % - width for side note
327   marginparsep = .5cm,    % - space between notes and body text (content)
328 %   showframe,
329 ]{geometry}
330
331 \newlength\fullwidth
332 \setlength\fullwidth{\textwidth+\marginparwidth+\marginparsep}
333
334 \KOMAOptions{
335   numbers      = noenddot,
336 }
337 \AtBeginDocument{
338   \KOMAOptions{
339 %   headwidth   = {\fullwidth},
340 %   footwidth   = {\fullwidth},
341   footheight   = 20pt,
342   headheight   = 29pt,
343   captions     = tableheading,
344 }}
345
346
347
348 \title{\HUBerlintitle}
349 %\subtitle{\HUBerlinsubtitle}
350 \author{\HUBerlinauthor}
351 \date{\Version}
352
353
354 %---- Required Packages
355 \RequirePackage{ifluatex,luatex85}
356 \ifx\directlua\relax
357   \let\directlua\UnDeFiNeD
358 \fi
359 \ifluatex
360 \else

```

```

361 \GenericError{HUBerlin}%
362 {Please use 'LuaLaTeX' as Compiler.^^J I abort here.}
363 \fi

```

For fonts we load the package **fontspec** [8] which has almost no limits handling font-stuff.

```

364 \RequirePackage{fontspec}

365 \RequirePackage[mono=false]{libertine}
366 \RequirePackage{amssymb}
367
368 \defaultfontfeatures{%
369   Ligatures = TeX
370   , Scale    = MatchLowercase
371   , Numbers  = OldStyle
372 }

```

For fonts we use the available TeX Gyre Pagella as main font.¹

```

373 \setmainfont[%
374   Ligatures = TeX
375   , Numbers  = OldStyle]{TeX Gyre Pagella}

```

And we declare also the other fonts, too.

```

376 \setmonofont[Scale=1]{TeX Gyre Cursor}
377 \setsansfont[%
378   , LetterSpace = .8]{TeX Gyre Adventor-Regular}
379 \linespread{1.05}

380 \newfontfamily\listingsfont[
381   Scale    = MatchLowercase,
382 ]{TeX Gyre Cursor}
383 \renewcommand\MacroFont{\listingsfont}
384
385 \RequirePackage{marginnote}
386 \renewcommand*{\marginfont}{%
387   \rule{opt}{0.7\baselineskip}%
388   \footnotesize%
389   \color{HUBerlin-brown}}
390
391 \RequirePackage[
392   german = guillemets,
393   style   = german,
394 ]{csquotes}
395
396 \RequirePackage{enumitem}
397 \setlist{
398   nosep,
399   % itemindent=1em,
400   % labelindent=0.5\parindent,
401   leftmargin=*}
402 \newlist{tabitemize}{itemize}{2}% neue Listenumgebung
403 \setlist{tabitemize}{%
404   nosep,
405   leftmargin=*}

```

¹ <http://www.gust.org.pl/projects/e-foundry/tex-gyre>

```

406 }
407 \setlist[tabitemize,1]{label=\labelitemi}
408 \setlist[tabitemize,2]{label=\labelitemii}
409
410
411 \clubpenalty=10000 % prevent single lines at the beginning of a paragraph (Schuster)
412 \widowpenalty=10000 % prevent single lines at the end of a paragraph (Hurenkinder)
413 \displaywidowpenalty=10000 %
414
415 \RequirePackage{pdfpages}
416 \RequirePackage{biblatex}
417 \addbibresource{\jobname-bibliography.bib}
418 \addbibresource{\jobname-ctan.bib}
419 \RequirePackage{ccicons} %creative commons
420 \RequirePackage{xparse}
421 \RequirePackage{ragged2e}
422 \RequirePackage{microtype}
423 \RequirePackage{xspace}
424 \RequirePackage{graphicx}
425 \graphicspath{{img/}}

426 \RequirePackage{etoolbox}
427 %https://tex.stackexchange.com/a/235881/98739
428 \AfterEndPreamble{\maketitle}
429
430 % https://tex.stackexchange.com/a/401466/98739
431 \makeatletter
432 \renewcommand*{\maketitle}{%
433 % taken and shortened from /usr/share/texmf/tex/latex/koma-script/scrartcl.cls
434 \begin{titlepage}
435 \newgeometry{left=3cm, right=3cm, top=1.5cm, bottom=2cm}
436 \global\@topnum=\z@
437 \setparsizes{\z@}{\z@}{\z@{@plus 1fil}}\par@updaterelative
438 \null
439 {\large\@author\hfill Guideline and Documentation\par}
440 \vskip 10em%
441 {\begin{center}\color{HUBerlin-blue}
442 {\fontsize{50}{55}\selectfont\HUBerlinshort{} \par\vskip .5em%
443 \Large\sffamily\@title}\par
444 \vskip .5em
445 \end{center}}%
446 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
447 \null\vskip 5em%
448 \blockcquote[195]{Hoare1973}{Documentation must be regarded as an integral part of
449 A good programming language will encourage and assist the programmer to write clear
450 self-documenting code,
451 and even perhaps to develop
452 and display a pleasant style
453 of writing.}
454 \null\vfill
455 {\usekomafont{subtitle}{\@date \hfill
456 \includegraphics[width=4cm]{texografie}\}}%
457 \par

```

```

458 \vskip oem
459 \restoregeometry
460 \end{titlepage}
461 }%
462 \makeatother
463
464 \RequirePackage{xcolor}
465 \definecolor{HUBerlin-blue}{RGB}{0,65,137} % HEX 004189
466 \definecolor{HUBerlin-green}{RGB}{150,190,20} % HEX 93C11A % Topoi
467 \definecolor{HUBerlin-grey}{RGB}{169,169,169}
468 \definecolor{HUBerlin-brown}{RGB}{82,79,60}
469 \definecolor{HUBerlin-red}{RGB}{180,0,0}
470
471
472 \RequirePackage{dirtree}
473 \renewcommand*{DTstylecomment}{%
474   \color{HUBerlin-grey}%
475   \footnotesize%
476   \sffamily}
477 \renewcommand*{DTstyle}{%
478   \ttfamily%
479   \small%
480   }
481
482 \RequirePackage[
483   markcase = noupper,
484   footsepline = .5pt,
485   % headsepline = .5pt,
486   autooneside = false,% use left and right marks with a onesided document
487   automark,% set \leftmark and \rightmark automatically by *\section and \subsection
488   draft = false,
489 ]{scrlayer-scrpage}
490
491 \pagestyle{scrheadings}
492 \clearscrheadfoot
493 \rofoot*{\thepage}
494 \lofoot*{\textcolor{HUBerlin-blue}{\HUBerlintitle}\ \vrule\ \textcolor{HUBerlin-
495   brown}{\HUBerlinsubtitle}}
496 \rohead*{HUBerlin-bundle}
497 \lohead*{Version: \Version}
498
499 % https://tex.stackexchange.com/a/352925/98739
500 \newcommand*\partnumber{}
501 \DeclareNewLayer[
502   background,
503   textarea,
504   addwidth=\marginparsep+\marginparwidth,
505   mode=picture,
506   contents={%
507     \putC{\makebox[opt][c]{\raisebox{-.5\height}{\scalebox{50}{\textcolor{black!5}{\part
508     }
509   ]}{partnumber}
510 \DeclareNewPageStyleByLayers{part}{partnumber}

```



```

509 \renewcommand\partpagestyle{part}
510 \renewcommand*\partformat{\gdef\partnumber{\thepart}}
511
512 % only a dirty workaround for the part title
513 \newcommand*\changedpartwidth[1]{%
514   \makebox[\linewidth][l]{%
515     \parbox{\dimexpr\textwidth+\marginparsep+\marginparwidth\relax}{\raggedpart#1}%
516   }%
517 }
518 % add \changedpartwidth as last command to the settings for font element part
519 \addtokomafont{part}{\Huge\changedpartwidth}
520
521
522
523 %-https://tex.stackexchange.com/a/339516/98739 | https://tex.stackexchange.com/a/9
524 % footnotes in the footer:
525 \deffootnote%
526   %[\normalparindent]%<width of mark>
527   {0.0cm}%<indent of footnote text>
528   {\normalparindent}%<paragraph indent in the footnote text>
529   {\makebox[\normalparindent][r]%
530     {\thefootnotemark\hspace*{3pt}}}%<definition of mark>
531 \newlength{\normalparindent}
532 \AtBeginDocument{\setlength{\normalparindent}{\parindent}}
533 \setfootnoterule{opt}% Kein Fußnotenstrich
534 %\setfootnoterule[<height>]{<length>}
535

```

This will put the numbers of the chapters and sections into the margin.

```

536 \renewcommand\sectionlinesformat[4]{%
537   \makebox[opt][r]{#3}#4%
538 }

539 \RequirePackage{url}
540 % \urlstyle{same}
541
542 \setkomafont{title}{\sffamily\color{HUBerlin-blue}\flushleft\bfseries}
543 \setkomafont{disposition}{\color{HUBerlin-brown}\sffamily\bfseries\large}
544 \setkomafont{section}{\usekomafont{disposition}}
545 \setkomafont{subsection}{\usekomafont{disposition}}
546 \setkomafont{subsubsection}{\usekomafont{disposition}}
547 % \setkomafont{paragraph}{\bfseries}
548 % \setkomafont{subsubsection}{\sffamilybold}
549 \setkomafont{subtitle}{\large\color{HUBerlin-brown}\sffamily\flushleft}
550 \setkomafont{pageheadfoot}{\footnotesize\sffamily\color{HUBerlin-grey}}
551 \setkomafont{descriptionlabel}{\bfseries}
552 \setkomafont{footnotelabel}{\bfseries}
553 \addtokomafont{titlehead}{\flushright}
554 % \setkomafont{headsepline}{\color{HUBerlin-blue}}
555 %\setkomafont{marginnote}{\MakeUppercase\color{HUBerlin-brown}}
556 \addtokomafont{caption}{\scriptsize}
557 \setkomafont{captionlabel}{\bfseries\sffamily}
558 \setkomafont{subject}{\bfseries\sffamily}
559 \setcapindent{opt}

```

```

560
561 \raggedbottom
562
563 \RequirePackage{listings}
564 \PassOptionsToPackage{final}{listings}
565 \RequirePackage[%
566     skins
567     , listings
568     , breakable
569     , xparse
570     , documentation
571 ]{tcolorbox}
572 \lstMakeShortInline[language=TeX,basicstyle=\ttfamily]|

```

Following we load **hyperxmp** [6] and **hyperref** [7] for PDF-meta data and interactive linked text.

```

573 \RequirePackage{hyperxmp}
574 \RequirePackage{hyperref}
575 \hypersetup{% setup the hyperref-package options
576     unicode      = true,
577     pdfauthor     = {HUBerlin}, % - author (PDF meta)
578     pdfauthortitle = {},
579     pdfcopyright  = {Copyright (c) \the\year . All rights reserved.},
580     pdfhighlight  = /N,
581     pdfdisplaydoctitle = true,
582     pdfdate       = {\today},
583     pdflang       = {}, % de en
584     pdfcaptionwriter = {Lukas C. Bossert},
585     pdfkeywords   = {HUBerlin},
586     pdfencoding   = auto,
587     pdfproducer   = {HUBerlin with LuaLaTeX},
588     bookmarksnumbered = true,
589     bookmarksopenlevel = 2,
590     bookmarksopen = true,
591     bookmarksdepth = 3,
592     colorlinks    = true, %Colours links instead of ugly boxes
593     urlcolor      = HUBerlin-blue, %Colour for external hyperlinks
594     linkcolor     = black, %Colour of internal links
595     citecolor     = black, %Colour of citations
596     linktoc       = page,
597     pdfborder     = {0 0 0},
598     breaklinks    = true, %allow line break inside links
599     final
600 }
601 \RequirePackage{bookmark}
602
603 \RequirePackage[
604     sort,
605     nameinlink,
606     compress,
607     ngerman, english
608 ]{cleveref}
609
610

```

```

611 %---- newcommands
612 \newcommand{\TeXografie}{Lukas C. Bossert
613   (www.TeXografie.de) }
614 \newcommand\HUBerlin{\HUBerlintitle\xspace}
615
616
617 \newcommand\HUBerlinFolder{%
618   \begingroup%
619   \normalfont%
620   \color{HUBerlin-blue}%
621   % \faFolderOpen% taken from fontawesome
622   \hspace{.3em}%
623   \endgroup}
624
625
626
627 \RedeclareSectionCommands[
628   tocraggedpagenumber,
629   toclinefill=\tocpageseparator,
630   tocindent=oem,
631   tocnumwidth=4em,
632   tocpagenumberbox=\tocpagenumberbox% <- added
633 %   tocpagelumberformat=\textsf,
634 ]{chapter, section, subsection, subsubsection, paragraph}
635
636 \newcommand\tocgobble[1]{}% <- added
637 \newcommand\tocpageseparator{\footnotesize\, \mbox{---}\, }
638 \newcommand\tocpagenumberbox[1]{\mbox{#1}}% <- added
639 \KOMAoptions{toc=indentunnumbered}
640
641 \RedeclareSectionCommand[
642 %   tocbeforeskip=1.25em plus 1pt
643   ,tocentryformat=\large\scshape%
644   ,tocindent=oem
645   ,tocnumwidth=4em
646   ,tocpagenumberbox=\tocgobble% <- added
647 ]{part}
648 %\addtokomafont{partentry}{\scshape\sffamily\bfseries}
649
650 \RedeclareSectionCommand[%
651 %   ,beforeskip=1.15em plus 1pt%
652 ,tocentryformat=\textbf%
653 %   ,toclinefill={\TOCLineLeaderFill}%\TOCLineLeaderFill[\textbf{.}]
654 ]{chapter}
655
656
657
658
659 \newtcolorbox{example}[1][]{
660   breakable,
661   top=5pt,
662   bottom=5pt,
663   colback=HUBerlin-blue!10,

```

```

664 colframe=HUBerlin-blue,
665 left=5pt,
666 right=5pt,
667 sharp corners,
668 boxrule=opt,
669 bottomrule=2pt,
670 top rule=2pt,
671 enhanced jigsaw,
672 lefttitle=opt,
673 coltitle=white,
674 fonttitle=\bfseries,
675 fontupper=\small,%\ttfamily,
676 % colbacktitle=HUBerlin-blue!20
677 #1,
678 }
679
680 % Replace the squat-u symbol for spaces
681 % https://tex.stackexchange.com/a/488123/98739
682 \makeatletter
683 \def\lst@visiblespace{\lst@ttfamily{\char32}$\textcolor{HUBerlin-grey}{\cdot}$}
684 \makeatother
685
686
687 \lstset{%
688   basicstyle = \linespread{0.7}\listingsfont
689   ,breaklines = true
690   ,breakatwhitespace
691   ,alsoletter=\\{\}\*\[\]\-
692   ,showstringspaces=true
693 }
694
695 \lstdefinestyle{HUBerlinlistingstyledef}{%
696   tabsize      = 4,
697   breaklines   = true,
698   breakatwhitespace = true,
699   postbreak=\mbox{$\hookrightarrow$},
700   %keepspace   = true,
701   escapeinside = {(*@){@*}},
702   moredelim    = {[is][\ttfamily\bfseries\color{HUBerlin-blue}]{|}{|}},
703   moredelim    = {[is][\ttfamily\bfseries\color{HUBerlin-blue}]{|1}{1|}},
704   moredelim    = {[is][\ttfamily\bfseries\color{HUBerlin-red}]{|2}{2|}},
705   aboveskip=opt,
706   belowskip=opt,
707   captionpos=b,
708   resetmargins=true,
709   sensitive=true,
710   upquote=true,
711   showspaces=true,
712   showtabs=true,
713   tab=\textcolor{HUBerlin-grey}{\rightarrowfill},
714   %numbers=left,
715   %numberstyle=\footnotesize\ttfamily\color{HUBerlin-grey},
716   comment      = [l]{\%},

```

```

717 commentstyle = \footnotesize\color{HUBerlin-grey}\addfontfeature{LetterSpace=.7},
718 % deletecomment = [1]{\%<}
719 % morecomment = [1][\nullfont]{\%<},
720 % deletecomment = [is]{\%<}{>},
721 }
722
723 \lstdefinestyle{HUBerlinlistingstyle}{%
724 language = {TeX},
725 style = {HUBerlinlistingstyledef},
726 }
727
728
729
730
731
732
733 \tcbset{%
734 HUBerlinstyle/.style={%
735 enhanced,
736 before skip=2mm,
737 after skip=3mm,
738 boxrule=0.7pt,
739 left=2mm,
740 right=2mm,
741 top=2mm,
742 bottom=2mm,
743 sharp corners,
744 colback=white,
745 colbacklower=white,
746 % fonttitle=\sffamily\bfseries,
747 breakable,
748 %before skip=\baselineskip,
749 coltitle=white,
750 colbacktitle=HUBerlin-blue!50!black,
751 fonttitle=\bfseries\sffamily\footnotesize,
752 % before upper={\mynote{\thetcbcounter}},
753 title={\hfill{Example \thetcbcounter}},
754 },
755 codecomment/.style={%
756 listing outside comment,%
757 boxrule=opt,
758 colback=white,
759 }
760 }
761
762 \newtcolorbox{warning}[1][]{
763 enhanced,
764 before skip=2mm,
765 after skip=3mm,
766 boxrule=0.7pt,
767 left=5mm,
768 right=2mm,
769 top=2mm,

```

```

770 bottom=2mm,
771 colback=white,
772 colframe=yellow!20!black,
773 sharp corners,
774 rounded corners=southeast,
775 arc is angular,
776 arc=3mm,
777 underlay={%
778 \path[fill=HUBerlin-grey!80!black] ([yshift=3mm]interior.south east)--
    ++(-0.4,-0.1)--++(0.1,-0.2);
779 \path[draw=HUBerlin-grey,shorten <=-0.05mm,shorten >=-0.05mm] ([yshift=3mm]interior
    ++(-0.4,-0.1)--++(0.1,-0.2);
780 \path[fill=red!50!black,draw=none] (interior.south west) rectangle node[white]{\Huge
781 },
782 drop fuzzy shadow,
783 #1
784 }
785
786 \newtcblisting[%
787 auto counter,
788 crefname = {example}{examples},
789 Crefname = {Example}{Examples},
790 ]{codetext}[2][]{%
791 HUBerlinstyle,
792 % side text,
793 rounded corners=northeast,
794 arc=6mm,
795 listing style=HUBerlinlistingstyle,
796 label = #2,
797 #1,
798 }
799
800 \newtcblisting[%
801 use counter from=codetext,
802 crefname={code example}{code examples},
803 Crefname={Code example}{Code examples}%
804 ]{code}[2][]{%
805 HUBerlinstyle,
806 rounded corners=southeast,
807 arc=6mm,
808 listing only,
809 listing style=HUBerlinlistingstyle,
810 label = #2,
811 #1,
812 }
813
814
815 \DeclareTCBInputListing[%
816 use counter from=codetext,
817 crefname={code example}{code examples},
818 Crefname={Code example}{Code examples}%
819 ]{\HUBerlinlisting}{ O{ } m }{%
820 HUBerlinstyle,

```

```

821 listing file={#2},
822 listing only,
823 listing style=HUBerlinlistingstyle,
824 #1,
825 }
826
827 \makeatletter
828 \newrobustcmd*{\fnurl}[1][\hyper@normalise\ltd@fnurl{#1}]
829 \def\ltd@fnurl#1#2{\footnote{#1\hyper@linkurl{Hurl{#2}}{#2}}}
830 \makeatother

```

The first command is used to reference packages with: `\pkg{<package name>}`.² The name of the package is linked to its entry on CTAN and referenced to the bibliography in the end of this documentation.

```

831 \RequirePackage{newfile}
832 \newoutputstream{pkglist}

833 \NewDocumentCommand{\pkg}{om}{%
834   \IfNoValueTF{#1}
835   {\lowercase{\href{http://www.ctan.org/pkg/#2}}{\textbf{#2}}}
836   {\lowercase{\href{http://www.ctan.org/pkg/#1-#2}}{\textbf{#2}}}%
837   \space\cite{#2}%
838   \addtostream{pkglist}{#2}}

839 \newrobustcmd*{\lit}[1]{\textsf{#1}}
840 \newrobustcmd*{\Code}[1]{\texttt{#1}}
841 \newrobustcmd*{\tex}{\TeX}
842 \newrobustcmd*{\etex}{\mbox{e-TeX}}
843 \newrobustcmd*{\pdftex}{pdf-\tex}
844 \newrobustcmd*{\xetex}{Xe-\tex}
845 \newrobustcmd*{\luatex}{Lua-\tex}
846 \newrobustcmd*{\latex}{\LaTeX}%{La\kern-0.07em TeX}
847 \newrobustcmd*{\pdflatex}{pdf-\latex}
848 \newrobustcmd*{\xelatex}{Xe-\latex}
849 \newrobustcmd*{\lualatex}{Lua-\latex}
850 \newrobustcmd*{\miktex}{Mik-\tex}
851 \newrobustcmd*{\texlive}{\tex~live}
852 \newrobustcmd*{\bibtex}{Bib\kern-0.07em TeX}
853 \newrobustcmd*{\lppl}{\latex{} Project Public License}
854 \newrobustcmd*{\pdf}{\PDF}
855 \newrobustcmd*{\md}{\Markdown}
856 \newrobustcmd*{\utf}{\mbox{UTF}-8}
857 % no \mbox here, we may have to break things
858 \newrobustcmd*{\bibfield}[1]{\Code{#1}}
859 \newrobustcmd*{\opt}[1]{\Code{#1}}
860 \newrobustcmd*{\bibmacro}[1]{\Code{#1}}
861 \newrobustcmd*{\bibtype}[1]{\Code{@#1}}
862 %\renewrobustcmd*{\cmd}[1]{\Code{\textbackslash #1}}
863 \renewrobustcmd\meta[1]{\normalfont\texttriangle\itshape#1\!/\!}{\textrangle}
864
865 % directly taken from ltxdoc.dtx
866 \renewrobustcmd\marg[1]{%

```

² Do not forget to insert the name of the package into the makefile in the definition of PKG.

```

867 {\ttfamily\textcolor{HUBerlin-red}{\{}}}%
868 \meta{#1}%
869 {\ttfamily\textcolor{HUBerlin-red}{\{}}}%
870 }
871
872 \renewrobustcmd\oarg[1]{%
873 {\ttfamily\textcolor{HUBerlin-green}{[]}}%
874 \meta{#1}%
875 {\ttfamily\textcolor{HUBerlin-green}{[]}}%
876 }
877
878 % adapted from listings.dtx (lstdoc.sty)
879 \renewrobustcmd\cmd[1]{%
880 \texttt{\color{HUBerlin-blue}\textbackslashstring#1}\xspace%
881 }
882
883 \newrobustcmd\env[2][ ]{%
884 \texttt{%
885 \color{HUBerlin-blue}%
886 \textbackslash begin\{\string#2\}\#1}%
887 \ldots
888 \texttt{%
889 \color{HUBerlin-blue}%
890 \textbackslash end\{\string#2\}}%
891 \xspace}

```

For a common layout of the parameter style to identify code of the different documents, files and packages we use `\param{(name of the parameter)}`.

```

892 \newcommand\param[1]{%
893 \begingroup%
894 \normalfont%
895 \ttfamily%
896 \bfseries%
897 \textless%
898 #1%
899 \ttfamily%
900 \bfseries%
901 \textgreater%
902 \endgroup}

903 \pdfstringdefDisableCommands{%
904 \def\lstinline#1{<#1>}
905 \def\tex{TeX}%
906 \def\etex{e-TeX}%
907 \def\xetex{XeTeX}%
908 \def\latex{LaTeX}%
909 \def\xelatex{XeLaTeX}%
910 \def\bibtex{BibTeX}%
911 \def\lppl{LaTeX Project Public License}%
912 \def\pdf{PDF}%
913 \def\utf{UTF-8}%
914 \def\{\}%
915 \def\texttt#1{<#1>}%
916 \def\marg#1{\{\#1\}}%

```



```

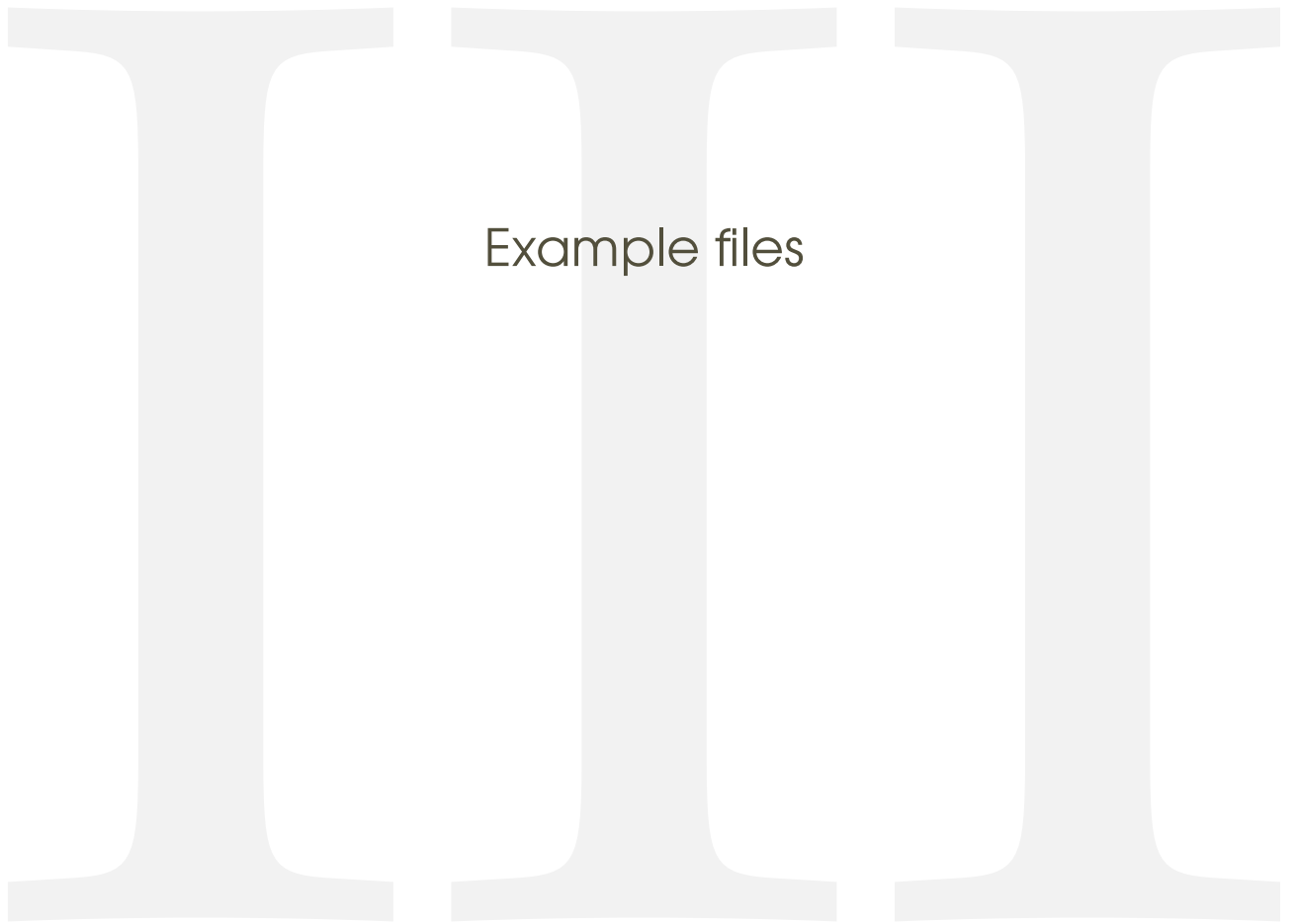
917 \def\oarg#1{[#1]}%
918 \def\color#1#2{}%
919 \def\env#1{<#1>}
920 \def\cmd#1{#1}
921 }
922 % https://tex.stackexchange.com/a/24067/98739
923 \makeatletter
924 \patchcmd{\scr@startchapter}{\if@openright\cleardoublepage\else\clearpage\fi}{}{}{}
925 \makeatother
926 %
927 \RequirePackage[tightLists=false]{markdown}
928 \markdownSetup{rendererPrototypes={%
929 link = {\href{#3}{#1}}}%
930 }}
931 \</style>

932 \</sty>

```

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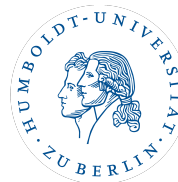


Example files

7 Letter

7.1 From **.tex**

HUMBOLDT-UNIVERSITÄT ZU BERLIN



HU Berlin | Unter den Linden 6 | D-10099 Berlin

Erika Musterfrau
Musterweg 43
56789 Musterhausen

Philosophische Fakultät

Institut für Briefvorlagen

Here you can more text.

Prof. Dr. Maike Musterfrau
Dekanin

Betreff

Sehr geehrte Frau Musterfrau,

Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln. Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln.

Datum:
11.6.2019

Wissenschaftlicher Mitarbeiter
Dr. Max Mustermann

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Telefax +49 [30] 2093-5678

maike.musterfrau@hu-berlin.de
max.mustermann@hu-berlin.de
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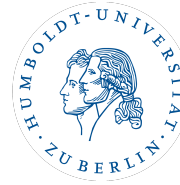
Sitz:
Mohrenstraße 40/41
Zimmer X
D-10117 Berlin

Verkehrsverbindungen:
U Bahnhof Hausvogteiplatz (U2)

Eingang:
Hausvogteiplatz

Bankverbindung:
Deutsche Bank PGK AG
IBAN DE95 1007 0848 0512 6206 01
BIC DEUTDE33HAN

HUMBOLDT-UNIVERSITÄT ZU BERLIN



Dies hier ist ein Blindtext zum Testen von Textausgaben. Wer diesen Text liest, ist selbst schuld. Der Text gibt lediglich den Grauwert der Schrift an. Ist das wirklich so? Ist es gleichgültig, ob ich schreibe: „Dies ist ein Blindtext“ oder „Huardest gefburn“? Kjift – mitnichten! Ein Blindtext bietet mir wichtige Informationen. An ihm messe ich die Lesbarkeit einer Schrift, ihre Anmutung, wie harmonisch die Figuren zueinander stehen und prüfe, wie breit oder schmal sie läuft. Ein Blindtext sollte möglichst viele verschiedene Buchstaben enthalten und in der Originalsprache gesetzt sein. Er muss keinen Sinn ergeben, sollte aber lesbar sein. Fremdsprachige Texte wie „Lorem ipsum“ dienen nicht dem eigentlichen Zweck, da sie eine falsche Anmutung vermitteln.

Mit freundlichen Grüßen

Prof. Dr. Maike Musterfrau – Dr. Max Mustermann

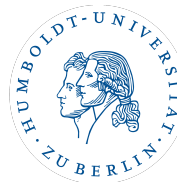
PS: ...

Anlage: Anlage 1
Anlage 2

Kopie an: Verteiler 1
Verteiler 2

7.2 From **.md**

HUMBOLDT-UNIVERSITÄT ZU BERLIN



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Alexander von Humboldt
Unter den Linden 6
10099 Berlin

Philosophische Fakultät

Institut für Briefvorlagen

Here you can more text.

Prof. Dr. Maike Musterfrau
Dekanin

Sehr geehrte Damen und Herren

Thank you very much for your letter.

Mit freundlichen Grüßen

Prof. Dr. Maike Musterfrau – Dr. Max Mustermann

Datum:
11.6.2019

Wissenschaftlicher Mitarbeiter
Dr. Max Mustermann

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