

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]

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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 too 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 add 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 add more
19   text.}
20 \setkomavar{institute.head}[Dekanin]{Prof. Dr. Maike
21   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 %%

```

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`

You should also tell a short subject

74 `subject: Short description`

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

75 `addressee:`

76 `- Alexander von Humboldt`

77 `- Unter den Linden 6`

78 `- 10099 Berlin`

79 `---`

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

Now the content of your letter

80 `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  subject: Short description
5  addressee:
6  - Alexander von Humboldt
7  - Unter den Linden 6
8  - 10099 Berlin
9  ---
10 Thank you very much for your letter.
```

81 `</letter-md>`

Here we close the example files.

82 `</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, reline, 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** [6]

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

To get the HU logo on the second and following pages we load **scrlayer-scrpage** [4].²

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

² <https://tex.stackexchange.com/a/495258/98739>

```

23 \RequirePackage{scrlayer-scrpage}
24 \clearpaairofpagestyles
25 \DeclareNewLayer[
26   foreground,
27   voffset=\useplength{firstheadvpos},
28   hoffset=\useplength{firstheadhpos},
29   width=\useplength{firstheadwidth},
30   mode=picture,
31   contents=\putUL{\raisebox{-\height}{\usekomavar{firsthead}}}]
32 ]{\likefirstpage.head}
33 \AddLayersToPageStyle{scrheadings}{\likefirstpage.head}
34 \DeclareNewLayer[
35   foreground,
36   align=r,
37   voffset=\useplength{locvpos},
38   hoffset=\paperwidth-\useplength{lochpos},
39   width=\useplength{locwidth},
40   height=\useplength{locheight},
41   contents=\usekomavar{nextlocation},
42   %pretocontents=\layercontentsmeasure% to show the position of the layer
43 ]{\likefirstpage.loc}
44 \AddLayersToPageStyle{scrheadings}{\likefirstpage.head,\likefirstpage.loc}

```

Now we apply the code for following pages.

```

45 \newkomavar{nextlocation}
46 \setkomavar{nextlocation}{%
47   \raggedright
48   \fontsize{7}{8.5}\selectfont
49   \pagemark
50 }

```

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

```

51 \RequirePackage{geometry}
52 \geometry{%
53   a4paper
54   , left           =25mm
55   , bottom         =16mm
56   , foot           =4mm
57   , top            =77mm
58   , headheight     =15pt
59   , textwidth      =117mm
60   , marginparsep   =0mm
61   , marginparwidth =0mm
62 }

```

Main Text and signature should be raggedright.

```

63 \renewcommand*{\raggedsignature}{\raggedright}
64 \raggedright

```

We also want to put the enclosures at the bottom of the page.³

```

65 \def\stopletter{}
66 \let\enclold\encl
67 \renewcommand\encl[1]{\vskipoptplusifilll\enclold{#1}}

```

³ <https://tex.stackexchange.com/questions/77991/put-the-encl-at-the-bottom-of-the-page-lettre-cl>

We define new komavars.

First the possibility to name the faculty,

```
68 \newkomavar{faculty}
69 \newkomafont{faculty}{\bfseries\fontsize{8.5}{10}\selectfont}
```

then the institute

```
70 \newkomavar{institute}
71 \newkomafont{institute}{\fontsize{8.5}{10}\selectfont}
```

and further fields for information.

```
72 \newkomavar{institute.additional}
```

We pass the name of the head of the institute.

```
73 \newkomafont{institute.head}{\bfseries}
74 \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.

```
75 \newkomavar{institute.head.mail}%
```

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

```
76 \newkomavar{local}
77 \setkomavar*{local}{Sitz:}
```

and how to get there.

```
78 \newkomavar{connections}
79 \setkomavar*{connections}{Verkehrsverbindungen:}
```

Furthermore we inform about office hours

```
80 \newkomavar{officehours}
81 \setkomavar*{officehours}{Sprechzeiten:}
```

and if there is accessibility for wheelchairs etc.

```
82 \newkomavar{accessibility}
83 \setkomavar*{accessibility}{{\large\reflectbox{\Wheelchair}} Eingang:}

84 \newkomavar{bank}
85 \setkomavar*{bank}{Bankverbindung:}
86 \setkomavar{bank}{Deutsche Bank PGK AG}
87 \newkomavar{IBAN}
88 \setkomavar{IBAN}{\mbox{IBAN DE95 1007 0848 0512 6206 01}}
89 \newkomavar{BIC}
90 \setkomavar{BIC}{BIC DEUTDEDB110}
```

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

```
91 \setkomavar{location}{}%
```

First anything regarding the font

```
92 \raggedright
93 \fontsize{7}{8.5}\selectfont
94 % \begin{macrocode}
95 % and for the section of faculty, institute etc. we use \env{minipage}
96 % \begin{macrocode}
97 \begin{minipage}[t][64mm]{\useplength{locwidth}}
```

then the faculty

```
98 {\usekomafont{faculty}%
```

```
99 \usekomavar{faculty}\[1\baselineskip]}
```

and the institute.

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

Now anything else regarding the institute.

```
101 \ifkomavareempty{institute.additional}
```

```
102 {}
```

```
103 {\usekomavar{institute.additional}\[1\baselineskip]}
```

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

```
104 \ifkomavareempty{institute.head}
```

```
105 {}
```

```
106 {\usekomafont{institute.head}%
```

```
107 \usekomavar{institute.head}}\%
```

```
108 \usekomavar*{institute.head}}
```

We close this section and the minipage.

```
109 \end{minipage}
```

Let's turn to further information.

For example date:

```
110 \textbf{\usekomavar*{date}}\%
```

```
111 \usekomavar{date}\par
```

and the sender of the letter.

```
112 \ifkomavareempty{fromname}
```

```
113 {}
```

```
114 {\textbf{\usekomavar*{fromname}}\%
```

```
115 \usekomavar{fromname}\par}
```

And the reference of correspondence.

```
116 \ifkomavareempty{myref}
```

```
117 {}
```

```
118 {\textbf{\usekomavar*{myref}}\%
```

```
119 \usekomavar{myref}\par}
```

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

```
120 \ifkomavareempty{yourref}
```

```
121 {}
```

```
122 {\textbf{\usekomavar*{yourref}}\%
```

```
123 \usekomavar{yourref}\par}
```

```
124 \ifkomavareempty{yourmail}
```

```
125 {}
```

```
126 {\textbf{\usekomavar*{yourmail}}\%
```

```
127 \usekomavar{yourmail}\par}
```

```
128 \ifkomavareempty{customer}
```

```
129 {}
```

```
130 {\textbf{\usekomavar*{customer}}\%
```

```
131 \usekomavar{customer}\par}
```

```
132 \ifkomavareempty{invoice}
```

```
133 {}
```

```
134 {\textbf{\usekomavar*{invoice}}\%
```

```
135 \usekomavar{invoice}\par}
```

```

136 \textbf{\usekomavar*{fromaddress}}\
137 \usekomavar{fromaddress}
138 \ifkomavareempty{fromphone}
139   {\par}
140   {\usekomavar*{fromphone}\usekomavar{fromphone}
141     \ifkomavareempty{fromfax}
142     {\par}
143     {\}}
144 \ifkomavareempty{fromfax}
145   {}
146   {\usekomavar*{fromfax}\usekomavar{fromfax}\par}

```

Next, emails and url:

```

147 \ifkomavareempty{institute.head.mail}
148   {}
149   {\usekomavar{institute.head.mail}
150     \ifkomavareempty{fromemail}
151     {\ifkomavareempty{fromurl}
152       {\par}
153       {\}}
154     {\}}

155 \ifkomavareempty{fromemail}
156   {}
157   {\usekomavar{fromemail}
158     \ifkomavareempty{fromurl}
159     {\par}
160     {\}}

161 \ifkomavareempty{fromurl}
162   {}
163   {\usekomavar{fromurl}\par}

```

Now the actual location of the sender

```

164 \ifkomavareempty{local}
165   {}
166   {\textbf{\usekomavar*{local}}\
167     \usekomavar{local}\par}

```

The last information section should be pinned to the bottom.

```

168 \vfill

```

Inform your addressee about the connection possibilities.

```

169 \ifkomavareempty{connections}
170   {}
171   {\textbf{\usekomavar*{connections}}\
172     \usekomavar{connections}\par}

173 \ifkomavareempty{officehours}
174   {}
175   {\textbf{\usekomavar*{officehours}}\
176     \usekomavar{officehours}\par}

```

If there is a barrier free entrance, tell it.

```

177 \ifkomavareempty{accessibility}

```



```

178 {}
179 {\textbf{\usekomavar*{accessibility}}\}
180 \usekomavar{accessibility}\par}

```

And last the bank connection

```

181 \ifkomavareempty{bank}
182 {}
183 {\textbf{\usekomavar*{bank}}\}
184 \usekomavar{bank}\}
185 \usekomavar{IBAN}\}
186 \usekomavar{BIC}
187 }

```

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

```

188 }

```

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

```

189 \KOMAOPTIONS{
190   numericaldate =true
191   ,refline      =nodate
192   ,backaddress  =plain
193   ,parskip      =half-
194 }

```

Redefining length.

```

195 \setlength{refvpos}{110mm}
196 \setlength{refaftervskip}{opt}
197 \setlength{toaddrhpos}{25mm}
198 \setlength{firsttheadhpos}{\uselength{toaddrhpos}}
199 \setlength{lochpos}{15mm}
200 \setlength{locvpos}{\uselength{toaddrvpos}}
201 \addtoplength{locvpos}{.75\baselineskip}
202 \setlength{locwidth}{45mm}
203 \setlength{locheight}{232mm}

```

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!

```

204 \setkomavar{firsthead}{%
205 \includegraphics[width=148mm]{HUBerlin-logo.png}%
206 }

207 \setkomavar{backaddresseseparator}{~\textbar~}

208 \setkomavar{fromphone}{0000}
209 \setkomavar*{fromphone}{Telefon +49 [30] 2093-}

210 \setkomavar{fromfax}{0000}
211 \setkomavar*{fromfax}{Telefax +49 [30] 2093-}

212 \setkomavar*{fromaddress}{Postanschrift:}
213 \setkomavar{fromaddress}{%
214 Humboldt-Universität zu Berlin\}
215 Unter den Linden 6\}

```

```

216   D-10099 Berlin}

217 \setkomavar*{date}{Datum:}

218 \setkomavar*{fromname}{Bearbeiter:}

219 \setkomavar*{myref}{Geschäftszeichen:}

220 \setkomavar*{enclseparator}{Anlage}

221 \setkomavar*{ccseparator}{Kopie an}

222 % \RequirePackage{hyperref}
223 % \AtBeginDocument{{
224 %   \usekomavar[\def\author]{fromname}
225 %   \usekomavar[\def\subject]{subject}
226 %   \hypersetup{%
227 %     pdftitle           = {\subject},
228 %     pdfauthor          = {\author},
229 %     pdfsubject         = {\subject},
230 %     pdfkeywords        = {\author, \subject},
231 %     pdflang            = de,
232 %     pdfdisplaydoctitle = true,
233 %     colorlinks         = true,
234 %     plainpages         = false,
235 %     hypertexnames      = false,
236 %     unicode,
237 %   }
238 % }}

239 </letter>

240 </cls>

241 <*template>

```

5 Boilerplate / Template for letters

```

242 <*letter-md>

243 \documentclass{HUBerlin-letter}

```

We predefine two variables.

```

244 \newkomavar{opening}
245 \newkomavar{closing}
246 \setkomavar{opening}{Sehr geehrte Damen und Herren}
247 \setkomavar{closing}{Mit freundlichen Grüßen}

248 $for(letteroption)$
249 \LoadLetterOption{$letteroption$}
250 $endfor$

```

```

251 $if (sender) $\LoadLetterOption{$sender}$endif$
252 $if (addresseeimage) $\setkomavar{addresseeimage}{$addresseeimage$}$endif$
253 $if (backaddress) $\setkomavar{backaddress}{$backaddress$}\KOMAOPTIONS{backaddress=true}$endif$
254 $if (fromalign) $\KOMAOPTIONS{fromalign=$fromalign$}$endif$
255 $if (customer) $\setkomavar{customer}{$customer$}$endif$
256 $if (date) $\setkomavar{date}{$date$}$endif$
257 $if (fromaddress) $\setkomavar{fromaddress}{$fromaddress$}$endif$
258 $if (frombank) $\setkomavar{frombank}{$frombank$}$endif$
259 $if (fromemail) $\setkomavar{fromemail}{$fromemail$}\KOMAOPTIONS{fromemail=true}$endif$
260 $if (fromfax) $\setkomavar{fromfax}{$fromfax$}\KOMAOPTIONS{fromfax=true}$endif$
261 $if (fromlogo) $\setkomavar{fromlogo}{$fromlogo$}\KOMAOPTIONS{fromlogo=true}$endif$
262 $if (frommobilephone) $\setkomavar{frommobilephone}{$frommobilephone$}\KOMAOPTIONS{frommobilephone=true}$endif$
263 $if (fromname) $\setkomavar{fromname}{$fromname$}$endif$
264 $if (fromphone) $\setkomavar{fromphone}{$fromphone$}\KOMAOPTIONS{fromphone=true}$endif$
265 $if (fromurl) $\setkomavar{fromurl}{$fromurl$}\KOMAOPTIONS{fromurl=true}$endif$
266 $if (fromzipcode) $\setkomavar{fromzipcode}{$fromzipcode$}$endif$
267 $if (invoice) $\setkomavar{invoice}{$invoice$}$endif$
268 $if (location) $\setkomavar{location}{$location$}$endif$
269 $if (myref) $\setkomavar{myref}{$myref$}$endif$
270 $if (myrefname) $\setkomavar*{myref}{$myrefname$}$endif$
271 $if (place) $\setkomavar{place}{$place$}$endif$
272 $if (PPcode) $\setkomavar{PPcode}{$PPcode$}$endif$
273 $if (signature) $\setkomavar{signature}{$signature$}$endif$
274 $if (specialmail) $\setkomavar{specialmail}{$specialmail$}$endif$
275 $if (subject) $\setkomavar{subject}{$subject$}$endif$
276 $if (title) $\setkomavar{title}{$title$}$endif$
277 $if (yourmail) $\setkomavar{yourmail}{$yourmail$}$endif$
278 $if (yourref) $\setkomavar{yourref}{$yourref$}$endif$
279 $if (opening) $\setkomavar{opening}{$opening$}$endif$
280 $if (closing) $\setkomavar{closing}{$closing$}$endif$
281 $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.

```

282 $if(addressee)$
283 $else$
284 \KOMAOPTIONS{addrfield=false}
285 $endif$

```

Now the actual content of the letter

```

286 \begin{document}
287 \begin{letter}{%
288 $for(addressee)$
289 $addressee$sep$\\
290 $endfor$
291 }
292 $for(include-before)$
293 $include-before$
294 $endfor$
295 \opening{\usekomavar{opening}}
296 $body$
297 \closing{\usekomavar{closing}}
298 $if(ps)$\ps{$ps$}$endif$
299 $if(encl)$\encl{$encl$}$endif$
300 $for(include-after)$include-after$endfor$
301 \end{letter}
302 \end{document}

303 </letter-md>
304 </template>

```

6 Documentation preamble <style>

```

305 <*sty>
306 <*style>
307 \makeatletter
308 \addtolength\marginparwidth{-40pt}
309 \addtolength\marginparsep{4mm}

```

```

310 \addtolength\oddsidemargin{-20pt}
311 \addtolength\evensidemargin{-20pt}
312 \let\PrintDescribeMacro=\@gobble
313 \let\PrintDescribeEnv=\@gobble
314 % \def\Describe@Macro#1{\endgroup
315 %      %\marginnote{\PrintDescribeMacro{#1}}%
316 %      \SpecialUsageIndex{#1}\@esphack\ignorespaces%
317 %      }
318 %\def\Describe@Env#1{\endgroup
319 %      %\marginnote{\PrintDescribeEnv{#1}}%
320 %      \SpecialEnvIndex{#1}\@esphack\ignorespaces%
321 %      }
322 \makeatother
323 \AtBeginDocument{\normalmarginpar}
324 \setlength\MacrocodeTopsep{.5\baselineskip}
325 \setlength\MacroIndent{6mm}
326
327
328 \RequirePackage{luatexbase}
329 \RequirePackage[ngerman,english]{babel}
330 \RequirePackage{calc}
331
332 \RequirePackage[
333   paper          = a4paper,    % - use A4 paper size
334   foot           = 2cm,
335   inner          = 3cm,    % - total body: left margin (odd pages)
336   top            = 3cm,    % - total body: top margin
337   outer          = 3cm,    % - total body: right margin (odd pages)
338   bottom         = 3cm,    % - total body: bottom margin
339   marginparwidth = 2cm,    % - width for side note
340   marginparsep   = .5cm,    % - space between notes and body text (content)
341 %   showframe,
342 ]{geometry}
343
344 \newlength\fullwidth
345 \setlength\fullwidth{\textwidth+\marginparwidth+\marginparsep}
346
347 \KOMAOptions{
348   numbers      = noenddot,
349 }
350 \AtBeginDocument{
351   \KOMAOptions{
352 %   headwidth   = {\fullwidth},
353 %   footwidth   = {\fullwidth},
354   footheight  = 20pt,
355   headheight  = 29pt,
356   captions    = tableheading,
357   }}
358
359
360
361 \title{\HUBerlintitle}
362 %\subtitle{\HUBerlinsubtitle}

```

```

363 \author{\HUBerlinauthor}
364 \date{\Version}
365
366
367 %---- Required Packages
368 \RequirePackage{ifluatex, luatex85}
369 \ifx\directlua\relax
370   \let\directlua\UnDeFiNeD
371 \fi
372 \ifluatex
373 \else
374 \GenericError{HUBerlin}%
375 {Please use 'LuaLaTeX' as Compiler.^^J I abort here.}
376 \fi

```

For fonts we load the package **fontspec** [9] which has almost no limits handling font-stuff.

```

377 \RequirePackage{fontspec}

378 \RequirePackage[mono=false]{libertine}
379 \RequirePackage{amssymb}
380
381 \defaultfontfeatures{%
382   Ligatures = TeX
383   , Scale    = MatchLowercase
384   , Numbers  = OldStyle
385 }

```

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

```

386 \setmainfont[%
387   Ligatures = TeX
388   , Numbers  = OldStyle]{TeX Gyre Pagella}

```

And we declare also the other fonts, too.

```

389 \setmonofont[Scale=1]{TeX Gyre Cursor}
390 \setsansfont[%
391   , LetterSpace = .8]{TeX Gyre Adventor-Regular}
392 \linespread{1.05}

393 \newfontfamily\listingsfont[
394   Scale    = MatchLowercase,
395 ]{TeX Gyre Cursor}
396 \renewcommand\MacroFont{\listingsfont}
397
398 \RequirePackage{marginnote}
399 \renewcommand*{\marginfont}{%
400   \rule{opt}{0.7\baselineskip}%
401   \footnotesize%
402   \color{HUBerlin-brown}}
403
404 \RequirePackage[
405   german = guillemets,
406   style   = german,
407 ]{csquotes}

```

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

```

408
409 \RequirePackage{enumitem}
410 \setlist{
411   nosep,
412   % itemindent=1em,
413   % labelindent=0.5\parindent,
414   leftmargin=*}
415 \newlist{tabitemize}{itemize}{2}% neue Listenumgebung
416 \setlist[tabitemize]{%
417   nosep,
418   leftmargin=*
419 }
420 \setlist[tabitemize,1]{label=\labelitemi}
421 \setlist[tabitemize,2]{label=\labelitemii}
422
423
424 \clubpenalty=10000 % prevent single lines at the beginning of a paragraph (Schustert)
425 \widowpenalty=10000 % prevent single lines at the end of a paragraph (Hurenkinder)
426 \displaywidowpenalty=10000 %
427
428 \RequirePackage{pdfpages}
429 \RequirePackage{biblatex}
430 \addbibresource{\jobname-bibliography.bib}
431 \addbibresource{\jobname-ctan.bib}
432 \RequirePackage{ccicons} %creative commons
433 \RequirePackage{xparse}
434 \RequirePackage{ragged2e}
435 \RequirePackage{microtype}
436 \RequirePackage{xspace}
437 \RequirePackage{graphicx}
438 \graphicspath{{img/}}

439 \RequirePackage{etoolbox}
440 %https://tex.stackexchange.com/a/235881/98739
441 \AfterEndPreamble{\maketitle}
442
443 % https://tex.stackexchange.com/a/401466/98739
444 \makeatletter
445 \renewcommand*{\maketitle}{%
446   % taken and shortened from /usr/share/texmf/tex/latex/koma-script/scrartcl.cls
447   \begin{titlepage}
448     \newgeometry{left=3cm, right=3cm, top=1.5cm, bottom=2cm}
449     \global\@topnum=\z@
450     \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
451     \null
452     {\large\@author\hfill Guideline and Documentation\par}
453     \vskip 10em%
454     {\begin{center}\color{HUBerlin-blue}
455       {\fontsize{50}{55}\selectfont\HUBerlinshort{} \par\vskip .5em%
456         \Large\sffamily\@title}\par
457       \vskip .5em
458     }\end{center}}%
459 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%

```

```

460 \null\vskip 5em%
461 \blockcquote[195]{Hoare1973}{Documentation must be regarded as an integral part of
462 A good programming language will encourage and assist the programmer to write clear
463 self-documenting code,
464 and even perhaps to develop
465 and display a pleasant style
466 of writing.}
467 \null\vfill
468 {\usekomafont{subtitle}{\@date \hfill
469 \includegraphics[width=4cm]{texografie}\}\}%
470 \par
471 \vskip 0em
472 \restoregeometry
473 \end{titlepage}
474 }%
475 \makeatother
476
477 \RequirePackage{xcolor}
478 \definecolor{HUBerlin-blue}{RGB}{0,65,137} % HEX 004189
479 \definecolor{HUBerlin-green}{RGB}{150,190,20} % HEX 93C11A % Topoi
480 \definecolor{HUBerlin-grey}{RGB}{169,169,169}
481 \definecolor{HUBerlin-brown}{RGB}{82,79,60}
482 \definecolor{HUBerlin-red}{RGB}{180,0,0}
483
484
485 \RequirePackage{dirtree}
486 \renewcommand*{DTstylecomment}{%
487 \color{HUBerlin-grey}%
488 \footnotesize%
489 \sffamily}
490 \renewcommand*{DTstyle}{%
491 \ttfamily%
492 \small%
493 }
494
495 \RequirePackage[
496 markcase = noupper,
497 footsepline = .5pt,
498 % headsepline = .5pt,
499 autooneside = false,% use left and right marks with a onesided document
500 automark,% set \leftmark and \rightmark automatically by *\section and \subsection
501 draft = false,
502 ]{scrlayer-scrpage}
503
504 \pagestyle{scrheadings}
505 \clearscrheadfoot
506 \rofoot*{\thepage}
507 \lofoot*{\textcolor{HUBerlin-blue}{\HUBerlintitle}\ \vrule\ \textcolor{HUBerlin-
508 brown}{\HUBerlinsubtitle}}
509 \rohead*{HUBerlin-bundle}
510 \lohead*{Version: \Version}

510 % https://tex.stackexchange.com/a/352925/98739

```



```

511 \newcommand*\partnumber{}
512 \DeclareNewLayer[
513   background,
514   textarea,
515   addwidth=\marginparsep+\marginparwidth,
516   mode=picture,
517   contents={%
518 \putC{\makebox[opt][c]{\raisebox{-.5\height}{\scalebox{50}{\textcolor{black!5}{\partnumber}}}}
519   }
520 ]{\partnumber}
521 \DeclareNewPageStyleByLayers{part}{\partnumber}
522 \renewcommand\partpagestyle{part}
523 \renewcommand*\partformat{\gdef\partnumber{\thepart}}
524
525 % only a dirty workaround for the part title
526 \newcommand*\changedpartwidth[1]{%
527   \makebox[\linewidth][l]{%
528 \parbox{\dimexpr\textwidth+\marginparsep+\marginparwidth\relax}{\raggedpart#1}%
529   }%
530 }
531 % add \changedpartwidth as last command to the settings for font element part
532 \addtokomafont{part}{\Huge\changedpartwidth}
533
534
535
536 %-https://tex.stackexchange.com/a/339516/98739 | https://tex.stackexchange.com/a/98739/339516
537 % footnotes in the footer:
538 \deffootnote%
539   %[\normalparindent]%<width of mark>
540   {0.0cm}%<indent of footnote text>
541   {\normalparindent}%<paragraph indent in the footnote text>
542   {\makebox[\normalparindent][r]}%
543   {\thefootnotemark\hspace*{3pt}}}%<definition of mark>
544 \newlength{\normalparindent}
545 \AtBeginDocument{\setlength{\normalparindent}{\parindent}}
546 \setfootnoterule{opt}% Kein Fußnotenstrich
547 %\setfootnoterule[<height>]{<length>}
548

```

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

```

549 \renewcommand\sectionlinesformat[4]{%
550   \makebox[opt][r]{#3}#4%
551 }
552 \RequirePackage{url}
553 % \urlstyle{same}
554
555 \setkomafont{title}{\sffamily\color{HUBerlin-blue}\flushleft\bfseries}
556 \setkomafont{disposition}{\color{HUBerlin-brown}\sffamily\bfseries\large}
557 \setkomafont{section}{\usekomafont{disposition}}
558 \setkomafont{subsection}{\usekomafont{disposition}}
559 \setkomafont{subsubsection}{\usekomafont{disposition}}
560 % \setkomafont{paragraph}{\bfseries}
561 % \setkomafont{subsubsection}{\sffamilybold}

```

```

562 \setkomafont{subtitle}{\large\color{HUBerlin-brown}\sffamily\flushleft}
563 \setkomafont{pageheadfoot}{\footnotesize\sffamily\color{HUBerlin-grey}}
564 \setkomafont{descriptionlabel}{\bfseries}
565 \setkomafont{footnotelabel}{\bfseries}
566 \addtokomafont{titlehead}{\flushright}
567 % \setkomafont{headsepline}{\color{HUBerlin-blue}}
568 %\setkomafont{marginnote}{\MakeUppercase\color{HUBerlin-brown}}
569 \addtokomafont{caption}{\scriptsize}
570 \setkomafont{captionlabel}{\bfseries\sffamily}
571 \setkomafont{subject}{\bfseries\sffamily}
572 \setcapindent{opt}
573
574 \raggedbottom
575
576 \RequirePackage{listings}
577 \PassOptionsToPackage{final}{listings}
578 \RequirePackage[%
579     skins
580     , listings
581     , breakable
582     , xparse
583     , documentation
584 ]{tcolorbox}
585 \lstMakeShortInline[language=TeX,basicstyle=\ttfamily]|

```

Following we load **hyperxmp** [8] and **hyperref** [7] for PDF-meta data and interactive linked text.

```

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

```

```

613 }
614 \RequirePackage{bookmark}
615
616 \RequirePackage[
617   sort,
618   nameinlink,
619   compress,
620   ngerman, english
621 ]{cleveref}
622
623
624 %---- newcommands
625 \newcommand{\TeXografie}{Lukas C. Bossert
626   (www.TeXografie.de) }
627 \newcommand\HUBerlin{\HUBerlintitle\xspace}
628
629
630 \newcommand\HUBerlinFolder{%
631   \begingroup%
632   \normalfont%
633   \color{HUBerlin-blue}%
634   % \faFolderOpen% taken from fontawesome
635   \hspace{.3em}%
636   \endgroup}
637
638
639
640 \RedeclareSectionCommands[
641   tocraggedpagenumber,
642   toclinefill=\tocpageseparator,
643   tocindent=oem,
644   tocnumwidth=4em,
645   tocpagenumberbox=\tocpagenumberbox% <- added
646 %   tocpagenumberformat=\textsf,
647 ]{chapter, section, subsection, subsubsection, paragraph}
648
649 \newcommand\tocgobble[1]{}% <- added
650 \newcommand\tocpageseparator{\footnotesize\, \mbox{---}\, }
651 \newcommand\tocpagenumberbox[1]{\mbox{#1}}% <- added
652 \KOMAOptions{toc=indentunnumbered}
653
654 \RedeclareSectionCommand[
655 %   tocbeforeskip=1.25em plus 1pt
656   , tocentryformat=\large\scshape%
657   , tocindent=oem
658   , tocnumwidth=4em
659   , tocpagenumberbox=\tocgobble% <- added
660 ]{part}
661 %\addtokomafont{partentry}{\scshape\sffamily\bfseries}
662
663 \RedeclareSectionCommand[%
664 %   , beforeskip=1.15em plus 1pt%
665 , tocentryformat=\textbf%

```

```

666 % , toclinefill={\TOCLineLeaderFill}%\TOCLineLeaderFill[\textbf{.}]
667 ]{chapter}
668
669
670
671
672 \newtcolorbox{example}[1][]{
673   breakable,
674   top=5pt,
675   bottom=5pt,
676   colback=HUBerlin-blue!10,
677   colframe=HUBerlin-blue,
678   left=5pt,
679   right=5pt,
680   sharp corners,
681   boxrule=opt,
682   bottomrule=2pt,
683   toprule=2pt,
684   enhanced jigsaw,
685   lefttitle=opt,
686   coltitle=white,
687   fonttitle=\bfseries,
688   fontupper=\small,%\ttfamily,
689   % colbacktitle=HUBerlin-blue!20
690   #1,
691 }
692
693 % Replace the squat-u symbol for spaces
694 % https://tex.stackexchange.com/a/488123/98739
695 \makeatletter
696 \def\lst@visiblespace{\lst@ttfamily{\char32}$\textcolor{HUBerlin-grey}{\cdot}$}
697 \makeatother
698
699
700 \lstset{%
701   basicstyle = \linespread{0.7}\listingsfont
702   ,breaklines = true
703   ,breakatwhitespace
704   ,alsoletter=\\{\}\*\[\]\-
705   ,showstringspaces=true
706 }
707
708 \lstdefinestyle{HUBerlinlistingstyledef}{%
709   tabsize      = 4,
710   breaklines    = true,
711   breakatwhitespace = true,
712   postbreak=\mbox{$\hookrightarrow$},
713   %keepspaces    = true,
714   escapeinside  = {(*@}{@*)},
715   moredelim     = {[is][\ttfamily\bfseries\color{HUBerlin-blue}]{|}{|}},
716   moredelim     = {[is][\ttfamily\bfseries\color{HUBerlin-blue}]{|_}{|_}},
717   moredelim     = {[is][\ttfamily\bfseries\color{HUBerlin-red}]{|_2}{|_2}},
718   aboveskip=opt,

```

```

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

```

```

772   }
773 }
774
775 \newtcolorbox{warning}[1][]{
776   enhanced,
777   before skip=2mm,
778   after skip=3mm,
779   boxrule=0.7pt,
780   left=5mm,
781   right=2mm,
782   top=2mm,
783   bottom=2mm,
784   colback=white,
785   colframe=yellow!20!black,
786   sharp corners,
787   rounded corners=southeast,
788   arc is angular,
789   arc=3mm,
790   underlay={%
791 \path[fill=HUBerlin-grey!80!black] ([yshift=3mm]interior.south east)--
    ++(-0.4,-0.1)--++(0.1,-0.2);
792 \path[draw=HUBerlin-grey,shorten <=-0.05mm,shorten >=-0.05mm] ([yshift=3mm]interior
    ++(-0.4,-0.1)--++(0.1,-0.2);
793 \path[fill=red!50!black,draw=none] (interior.south west) rectangle node[white]{\Huge
794 },
795   drop fuzzy shadow,
796   #1
797   }
798
799 \newtcblisting[%
800   auto counter,
801   crefname   = {example}{examples},
802   Crefname   = {Example}{Examples},
803 ]{codetext}[2][]{%
804   HUBerlinstyle,
805   % side text,
806   rounded corners=northeast,
807   arc=6mm,
808   listing style=HUBerlinlistingstyle,
809   label = #2,
810   #1,
811   }
812
813 \newtcblisting[%
814   use counter from=codetext,
815   crefname={code example}{code examples},
816   Crefname={Code example}{Code examples}%
817 ]{code}[2][]{%
818   HUBerlinstyle,
819   rounded corners=southeast,
820   arc=6mm,
821   listing only,
822   listing style=HUBerlinlistingstyle,

```

```

823   label = #2,
824   #1,
825 }
826
827
828 \DeclareTCBInputListing[%
829   use counter from=codetext,
830   crefname={code example}{code examples},
831   Crefname={Code example}{Code examples}%
832 ]{\HUBerlinlisting}{ O{} m }{%
833   HUBerlinstyle,
834   listing file={#2},
835   listing only,
836   listing style=HUBerlinlistingstyle,
837   #1,
838 }
839
840 \makeatletter
841 \newrobustcmd*{\fnurl}[1][\hyper@normalise\ltd@fnurl{#1}]
842 \def\ltd@fnurl#1#2{\footnote{#1\hyper@linkurl{\Hurl{#2}}{#2}}}
843 \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.

```

844 \RequirePackage{newfile}
845 \newoutputstream{pkglist}

846 \NewDocumentCommand{\pkg}{om}{%
847   \IfNoValueTF{#1}
848   {\lowercase{\href{http://www.ctan.org/pkg/#2}}{\textbf{#2}}}
849   {\lowercase{\href{http://www.ctan.org/pkg/#1-#2}}{\textbf{#2}}}%
850   \space\cite{#2}%
851   \addtostream{pkglist}{#2}}

852 \newrobustcmd*{\lit}[1]{\textsf{#1}}
853 \newrobustcmd*{\Code}[1]{\texttt{#1}}
854 \newrobustcmd*{\tex}{\TeX}
855 \newrobustcmd*{\etex}{\mbox{e-TeX}}
856 \newrobustcmd*{\pdftex}{pdf-\tex}
857 \newrobustcmd*{\xetex}{Xe-\tex}
858 \newrobustcmd*{\luatex}{Lua-\tex}
859 \newrobustcmd*{\latex}{\LaTeX}%{La\kern-0.07em TeX}
860 \newrobustcmd*{\pdflatex}{pdf-\latex}
861 \newrobustcmd*{\xelatex}{Xe-\latex}
862 \newrobustcmd*{\lualatex}{Lua-\latex}
863 \newrobustcmd*{\miktex}{Mik-\tex}
864 \newrobustcmd*{\texlive}{\tex~live}
865 \newrobustcmd*{\bibtex}{Bib\kern-0.07em TeX}
866 \newrobustcmd*{\lppl}{\latex{} Project Public License}
867 \newrobustcmd*{\pdf}{\PDF}
868 \newrobustcmd*{\md}{\Markdown}

```

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

```

869 \newrobustcmd*{\utf}{\mbox{{UTF}-8}}
870 % no \mbox here, we may have to break things
871 \newrobustcmd*{\bibfield}[1]{\Code{#1}}
872 \newrobustcmd*{\opt}[1]{\Code{#1}}
873 \newrobustcmd*{\bibmacro}[1]{\Code{#1}}
874 \newrobustcmd*{\bibtype}[1]{\Code{@#1}}
875 %\renewrobustcmd*{\cmd}[1]{\Code{\textbackslash #1}}
876 \renewrobustcmd\meta[1]{\normalfont{\texttriangle}{\itshape#1\!/\!}{\texttriangle}}
877
878 % directly taken from ltxdoc.dtx
879 \renewrobustcmd\marg[1]{%
880   {\ttfamily\textcolor{HUBerlin-red}{\!/\!}}%
881   \meta{#1}%
882   {\ttfamily\textcolor{HUBerlin-red}{\!/\!}}}%
883 }
884
885 \renewrobustcmd\oarg[1]{%
886   {\ttfamily\textcolor{HUBerlin-green}{\!/\!}}%
887   \meta{#1}%
888   {\ttfamily\textcolor{HUBerlin-green}{\!/\!}}}%
889 }
890
891 % adapted from listings.dtx (lstdoc.sty)
892 \renewrobustcmd\cmd[1]{%
893   \texttt{\color{HUBerlin-blue}\textbackslash string#1}\xspace%
894   }
895
896 \newrobustcmd\env[2][]{%
897   \texttt{%
898     \color{HUBerlin-blue}%
899     \textbackslash begin\{\string#2\}\#1}%
900     \ldots
901     \texttt{%
902       \color{HUBerlin-blue}%
903       \textbackslash end\{\string#2\}}}%
904     \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)}`.

```

905 \newcommand\param[1]{%
906   \begingroup%
907   \normalfont%
908   \ttfamily%
909   \bfseries%
910   \textless%
911   #1%
912   \ttfamily%
913   \bfseries%
914   \textgreater%
915   \endgroup}

916 \pdfstringdefDisableCommands{%
917   \def\lstinline#1{<#1>}
918   \def\tex{TeX}%

```



```

919 \def\etex{e-TeX}%
920 \def\xetex{XeTeX}%
921 \def\latex{LaTeX}%
922 \def\xelatex{XeLaTeX}%
923 \def\bibtex{BibTeX}%
924 \def\lppl{LaTeX Project Public License}%
925 \def\pdf{PDF}%
926 \def\utf{UTF-8}%
927 \def\{\}%
928 \def\texttt#1{<#1>}%
929 \def\marg#1{\{#1\}}%
930 \def\oarg#1{[#1]}%
931 \def\color#1#2{}%
932 \def\env#1{<#1>}
933 \def\cmd#1{#1}
934 }
935 % https://tex.stackexchange.com/a/24067/98739
936 \makeatletter
937 \patchcmd{\scr@startchapter}{\if@openright\cleardoublepage\else\clearpage\fi}{}{}{}
938 \makeatother
939 %
940 \RequirePackage[tightLists=false]{markdown}
941 \markdownSetup{rendererPrototypes={%
942 link = {\href{#3}{#1}}}%
943 }}
944 \</style>

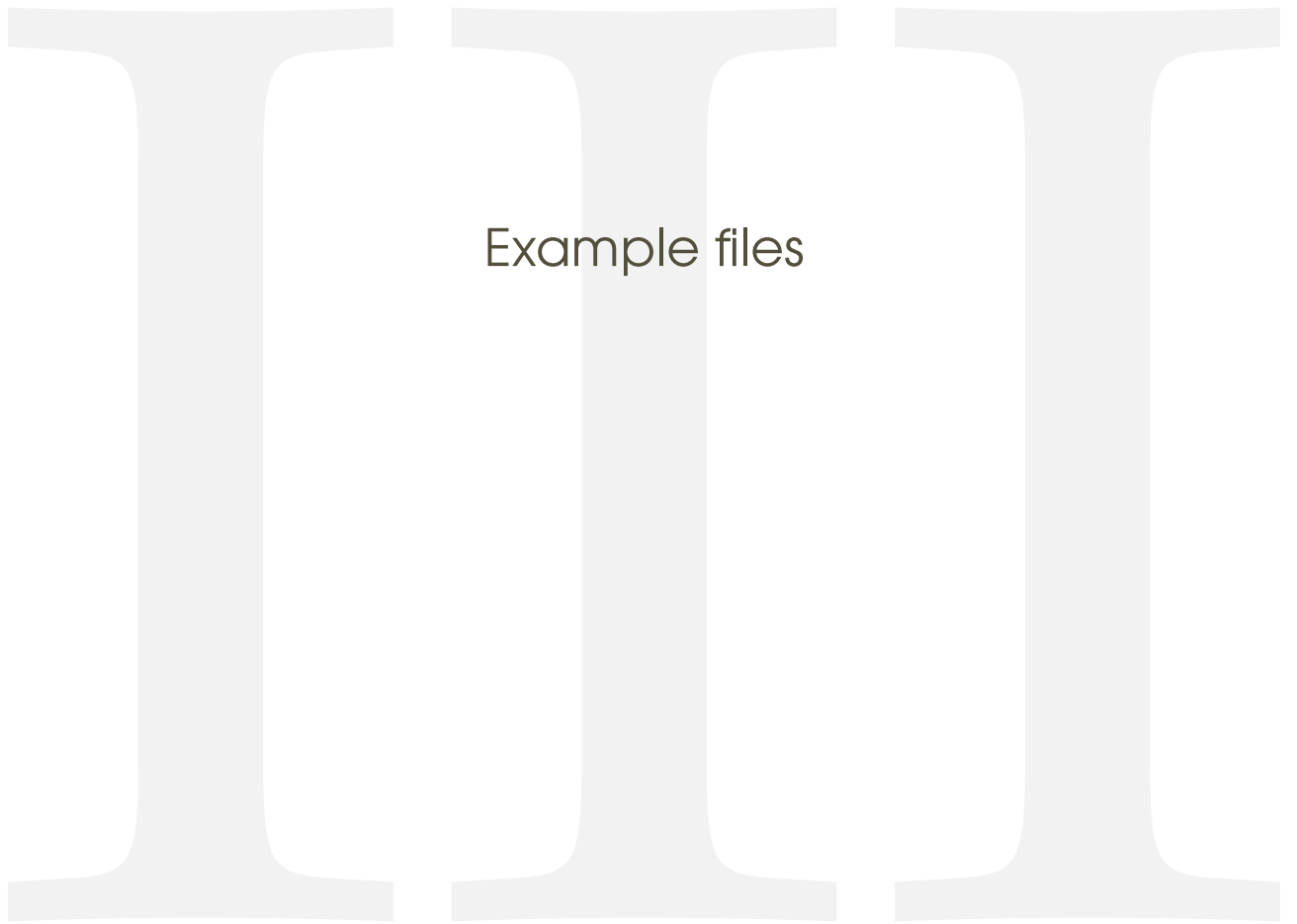
945 \</sty>

```

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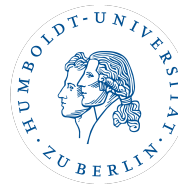


Example files

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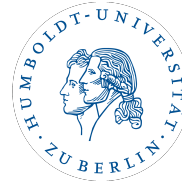
Sitz:
Mohrenstraße 40/41
Zimmer X
D-10117 Berlin

Verkehrsverbindungen:
U Bahnhof Hausvogteiplatz (U2)

Eingang:
Hausvogteiplatz

Bankverbindung:
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IBAN DE95 1007 0848 0512 6206 01
BIC DEUTDE33HAN

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Seite 2

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

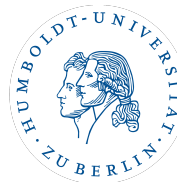
PS: ...

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 add more text.

Prof. Dr. Maike Musterfrau
Dekanin

Short description

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
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