

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.« [1, 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 `<*example>`

3 Letter

We give an example on how to create a letter.

3.1 `.lco`-file

2 `<*lco>`

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; [`<position>`]

5 `[Wissenschaftlicher Mitarbeiter]`

But you need to give a name:

6 `{Dr. Heinz Hermann}`

The mail address

7 `\setkomavar{fromemail}{heinz.hermann@hu-berlin.de}`

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

8 `\setkomavar{fromphone}{70550}`

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

9 `\setkomavar{fromfax}{}`

And finally the URL.

10 `\setkomavar{fromurl}{www.antikezentrum.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 `August-Boeckh-Antikezentrum\`

13 `D-10099 Berlin}`

Selfexplaining: the faculty.

14 `\setkomavar{faculty}{%`

15 `Philosophische Fakultät I`

16 `}`

17 `\setkomavar{institute}{%`

18 `\mbox{August-Boeckh-Antikezentrum}`

You could even put a figure/logo of the institute here.

```

19 % \includegraphics[width=\useplength{locwidth}]{ABAZ-logo.png}
20 }
21 \setkomavar{institute.additional}{Text Text Text Text Text Text Text Text Text Text}
22 \setkomavar{institute.head}[chef]{Prof. Dr. Max Mustermann}
23 \setkomavar{institute.head.mail}{max.mustermann@hu-berlin.de}
24 \setkomavar{local}{%
25   Mohrenstraße 40/41\\
26   Zimmer 14\\
27   D-10117 Berlin}
28 \setkomavar{connections}{U Bahnhof Hausvogteiplatz (U2)}
29 \setkomavar{accessibility}{Hausvogteiplatz}
30 \setkomavar{signature}{%
31   \usekomavar{institute.head} --
32   \usekomavar{fromname}
33 }
34 \lco

```

Example 1

```

1 \ProvidesFile{HUBerlin-letter.lco}
2 \setkomavar{fromname}
3 [Wissenschaftlicher Mitarbeiter]
4 {Dr. Heinz Hermann}
5 \setkomavar{fromemail}{heinz.hermann@hu-berlin.de}
6 \setkomavar{fromphone}{70550}
7 \setkomavar{fromfax}{}
8 \setkomavar{fromurl}{www.antikezentrum.hu-berlin.de}
9 \setkomavar{backaddress}{HU Berlin\\
10 August-Boeckh-Antikezentrum\\
11 D-10099 Berlin}
12 \setkomavar{faculty}{%
13 Philosophische Fakultät I
14 }
15 \setkomavar{institute}{%
16 \mbox{August-Boeckh-Antikezentrum}
17 %
18 \includegraphics[width=\useplength{locwidth}]{ABAZ-logo.png}
19 }
20 \setkomavar{institute.additional}{Text Text Text Text Text
21 Text Text Text Text Text Text Text Text Text Text
22 Text Text Text Text Text Text Text }
23 \setkomavar{institute.head}[chef]{Prof. Dr. Max Mustermann}
24 \setkomavar{institute.head.mail}{max.mustermann@hu-berlin.de}
25 \setkomavar{local}{%
26 Mohrenstraße 40/41\\
27 Zimmer 14\\
28 D-10117 Berlin}
29 \setkomavar{connections}{U Bahnhof Hausvogteiplatz (U2)}
30 \setkomavar{accessibility}{Hausvogteiplatz}
31 \setkomavar{signature}{%

```

```

29 \usekomavar{institute.head} --
30 \usekomavar{fromname}
31 }

```

3.2 .tex-file

```

35 \let*letter)

36 \documentclass{HUBerlin-letter}

```

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

```

37 \LoadLetterOption{HUBerlin-letter}

```

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

```

38 % \setmainfont[%
39 %     BoldFont=ScalaSans-BoldLF,
40 %     Numbers=OldStyle]{ScalaSans-RegularLF}

```

Now following the reference information

```

41 \setkomavar{myref}{111}

42 \setkomavar{yourref}{X}

43 \setkomavar{yourmail}{3.5.2019}

44 \setkomavar{customer}{234}

45 \setkomavar{invoice}{444}

46 \setkomavar{subject}{Betreff}

47 \usepackage{blindtext}

```

We close the preamble and start the letter

```

48 \begin{document}

```

The address is written as `{\address}`

```

49 \begin{letter}{%
50     Erika Musterfrau\\
51     Musterweg 43\\
52     56789 Musterhausen%

```

Closing now again.

```

53 }

54 \opening{Sehr geehrte Frau Musterfrau,}

```

This is just some blindtext.

```

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

```

Closing letter

```

58 \closing{Mit freundlichen Grüßen}

```

If you still have something to say/write.

59 `\ps PS: \dots`

Any amendment.

```
60 \encl{%
61   Anlage 1\\
62   Anlage 2%
63 }
```

This is the distribution

```
64 \cc{%
65   Verteiler 1\\
66   Verteiler 2%
67 }
```

That's it. Done.

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

And how does a example letter looks like?

Example 2

```
1  \LoadLetterOption{HUBerlin-letter}
2  \setkomavar{myref}{111}
3  \setkomavar{yourref}{X}
4  \setkomavar{yourmail}{3.5.2019}
5  \setkomavar{customer}{234}
6  \setkomavar{invoice}{444}
7  \setkomavar{subject}{Betreff}
8  \usepackage{blindtext}
9  \begin{document}
10 \begin{letter}{%
11   Erika Musterfrau\\
12   Musterweg 43\\
13   56789 Musterhausen%
14 }
15 \opening{Sehr geehrte Frau Musterfrau,}
16 \blindtext[2]
17 \clearpage
18 \blindtext
19 \closing{Mit freundlichen Grüßen}
20 \ps PS: \dots
21 \encl{%
22   Anlage 1\\
23   Anlage 2%
24 }
25 \cc{%
26   Verteiler 1\\
27   Verteiler 2%
28 }
29 \end{letter}
30 \end{document}
31 %%
```

70 `\letter`

3.3 Letter from markdown

71 `<*`letter-md`>`

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

Example 3

```
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.

```
72 ---
73 documentclass: HUBerlin-letter
```

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

```
74 senderdetails: HUBerlin-letter

75 opening: Sehr geehrte Damen und Herren
76 closing: Mit freundlichen Grüßen
77 date: 10. Mai 2010
```

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

```
78 addressee:
79 - Alexander von Humboldt
80 - Unter den Linden 6
81 - 10099 Berlin

82 ---
```

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

Now the content of your letter

```
83 Thank you very much for your letter.
```

Let's see how this example file looks like:

Example 4

```
1  ---
2  documentclass: HUBerlin-letter
3  senderdetails: HUBerlin-letter
4  opening: Sehr geehrte Damen und Herren
5  closing: Mit freundlichen Grüßen
6  date: 10. Mai 2010
7  addressee:
8  - Alexander von Humboldt
9  - Unter den Linden 6
10 - 10099 Berlin
11 ---
12 Thank you very much for your letter.
```

84 `</`letter-md`>`

Here we close the example files.

85 $\langle /example \rangle$



Guide for Coders

```
1 < *cls >
```

4 Letter

```
2 < *letter >
```

We load **srlttr2** [**srlttr2**] 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 ]{srlttr2}
```

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

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

Since we do want to compile with Lua_{La}T_EX, we make sure that it will be compilable only with that.

```
9 \RequirePackage{ifluatex, luatex85}
10 \ifluatex
11 \else
12 \GenericError{HUBerlin}%
13 {Please use 'LuaLaTeX' as Compiler.^^J I abort here.}
14 \fi
```

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

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

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

```
16 \RequirePackage{graphicx}
```

For loading fonts.

```
17 \RequirePackage{fontspec}
```

Verdana font as main font.

```
18 \setmainfont{Verdana}
```

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

```
19 \RequirePackage{marvosym}
```

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

```
20 \RequirePackage{scllayer-scrpage}
21 \DeclareNewLayer[
22   foreground,
23   textarea,
24   voffset=\useplength{firstheadvpos},
25   hoffset=\useplength{firstheadhpos},
26   width=\useplength{firstheadwidth},
```

```

27  mode=picture,
28  contents=\putUL{\raisebox{\dimexpr-\height}{\usekomavar{firsthead}}\hfill\thepage}
29 ]\likefirstpage.head}
30 \AddLayersToPageStyle{scrheadings}{\likefirstpage.head}
31 \clearpaairofpagestyles

```

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

```

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

```

Main Text and signature should be raggedright.

```

44 \renewcommand*{\raggedsignature}{\raggedright}
45 \raggedright

```

We define new komavars.

First the possibility to name the faculty,

```

46 \newkomavar{faculty}
47 \newkomafont{faculty}{\bfseries\fontsize{8.5}{10}\selectfont}

```

then the institute

```

48 \newkomavar{institute}
49 \newkomafont{institute}{\fontsize{8.5}{10}\selectfont}

```

and further fields for information.

```

50 \newkomavar{institute.additional}

```

We pass the name of the head of the institute.

```

51 \newkomafont{institute.head}{\bfseries}
52 \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.

```

53 \newkomavar{institute.head.mail}%

```

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

```

54 \newkomavar{local}
55 \setkomavar*{local}{Sitz:}

```

and how to get there.

```

56 \newkomavar{connections}
57 \setkomavar*{connections}{Verkehrsverbindungen:}

```

Furthermore we inform about office hours

```

58 \newkomavar{officehours}
59 \setkomavar*{officehours}{Sprechzeiten:}

```

and if there is accessibility for wheelchairs etc.

```

60 \newkomavar{accessibility}
61 \setkomavar*{accessibility}{\large\reflectbox{\Wheelchair}} Eingang:}

62 \newkomavar{bank}
63 \setkomavar*{bank}{Bankverbindung:}
64 \setkomavar{bank}{Deutsche Bank PGK AG}
65 \newkomavar{IBAN}
66 \setkomavar{IBAN}{\mbox{IBAN DE95 1007 0848 0512 6206 01}}
67 \newkomavar{BIC}
68 \setkomavar{BIC}{BIC DEUTDEDB110}

```

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

```

69 \setkomavar{location}{%

```

First anything regarding the font

```

70 \raggedright
71 \fontsize{7}{8.5}\selectfont
72 % \begin{macrocode}
73 % and for the section of faculty, institute etc. we use \env{minipage}
74 % \begin{macrocode}
75 \begin{minipage}[t][64mm]{\useplength{locwidth}}

```

then the faculty

```

76 {\usekomafont{faculty}%
77 \usekomavar{faculty}\[1\baselineskip]}

```

and the institute.

```

78 {\usekomafont{institute}\usekomavar{institute}\[1\baselineskip]}

```

Now anything else regarding the institute.

```

79 \ifkomavareempty{institute.additional}
80 {}
81 {\usekomavar{institute.additional}\[1\baselineskip]}

```

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

```

82 \ifkomavareempty{institute.head}
83 {}
84 {\usekomafont{institute.head}%
85 \usekomavar{institute.head}}\%
86 \usekomavar*{institute.head}}

```

We close this section and the minipage.

```

87 \end{minipage}

```

Let's turn to further information.

For example date:

```

88 \textbf{\usekomavar*{date}}\
89 \usekomavar{date}\par

```

and the sender of the letter.

```

90 \ifkomavareempty{fromname}
91 {}
92 {\textbf{\usekomavar*{fromname}}\
93 \usekomavar{fromname}\par}

```

And the reference of correspondence.

```

94 \ifkomavareempty{myref}
95 {}
96 {\textbf{\usekomavar*{myref}}}\
97 \usekomavar{myref}\par}

```

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

```

98 \ifkomavareempty{yourref}
99 {}
100 {\textbf{\usekomavar*{yourref}}}\
101 \usekomavar{yourref}\par}

102 \ifkomavareempty{yourmail}
103 {}
104 {\textbf{\usekomavar*{yourmail}}}\
105 \usekomavar{yourmail}\par}

106 \ifkomavareempty{customer}
107 {}
108 {\textbf{\usekomavar*{customer}}}\
109 \usekomavar{customer}\par}

110 \ifkomavareempty{invoice}
111 {}
112 {\textbf{\usekomavar*{invoice}}}\
113 \usekomavar{invoice}\par}

114 \textbf{\usekomavar*{fromaddress}}\
115 \usekomavar{fromaddress}
116 \ifkomavareempty{fromphone}
117 {\par}
118 {\usekomavar*{fromphone}\usekomavar{fromphone}
119 \ifkomavareempty{fromfax}
120 {\par}
121 {\}}
122 \ifkomavareempty{fromfax}
123 {}
124 {\usekomavar*{fromfax}\usekomavar{fromfax}\par}

```

Next, emails and url:

```

125 \ifkomavareempty{institute.head.mail}
126 {}
127 {\usekomavar{institute.head.mail}
128 \ifkomavareempty{fromemail}
129 {\ifkomavareempty{fromurl}
130 {\par}
131 {\}}
132 {\}}

133 \ifkomavareempty{fromemail}
134 {}
135 {\usekomavar{fromemail}
136 \ifkomavareempty{fromurl}
137 {\par}
138 {\}}

139 \ifkomavareempty{fromurl}

```



```

140 {}
141 {\usekomavar{fromurl}\par}

```

Now the actual location of the sender

```

142 \ifkomavareempty{local}
143 {}
144 {\textbf{\usekomavar*{local}}}\
145 \usekomavar{local}\par}

```

The last information section should be pinned to the bottom.

```

146 \vfill

```

Inform your addressee about the connection possibilities.

```

147 \ifkomavareempty{connections}
148 {}
149 {\textbf{\usekomavar*{connections}}}\
150 \usekomavar{connections}\par}

151 \ifkomavareempty{officehours}
152 {}
153 {\textbf{\usekomavar*{officehours}}}\
154 \usekomavar{officehours}\par}

```

If there is a barrier free entrance, tell it.

```

155 \ifkomavareempty{accessibility}
156 {}
157 {\textbf{\usekomavar*{accessibility}}}\
158 \usekomavar{accessibility}\par}

```

And last the bank connection

```

159 \ifkomavareempty{bank}
160 {}
161 {\textbf{\usekomavar*{bank}}}\
162 \usekomavar{bank}\
163 \usekomavar{IBAN}\
164 \usekomavar{BIC}
165 }

```

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

```

166 }

```

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

```

167 \KOMAOptions{%
168   numericaldate =true
169   ,refline      =nodate
170   ,backaddress  =plain
171   ,parskip      =half-
172 }

```

Getting rid of the reference field

```

173 \removerefferds

```

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

```

174 \AtBeginDocument{
175   \@setlength{refvpos}{110mm}
176   \@setlength{refaftervskip}{opt}

```

```

177 \@setplength{toaddrhpos}{25mm}
178 \@setplength{firstheadhpos}{\useplength{toaddrhpos}}
179 \@setplength{lochpos}{15mm}
180 \@setplength{locvpos}{\useplength{toaddrvpos}}
181 \@addtoplength{locvpos}{.75\baselineskip}
182 \@setplength{locwidth}{45mm}
183 \@setplength{locheight}{232mm}
184 }

```

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!

```

185 \setkomavar{firsthead}{%
186   \includegraphics[width=148mm]{HUBerlin-logo.png}%
187 }

188 \setkomavar{backaddressseparator}{~\textbar~}

189 \setkomavar{fromphone}{0000}
190 \setkomavar*{fromphone}{Telefon +49 [30] 2093-}

191 \setkomavar{fromfax}{0000}
192 \setkomavar*{fromfax}{Telefax +49 [30] 2093-}

193 \setkomavar*{fromaddress}{Postanschrift:}
194 \setkomavar{fromaddress}{%
195   Humboldt-Universität zu Berlin\\
196   Unter den Linden 6\\
197   D-10099 Berlin}

198 \setkomavar*{date}{Datum:}

199 \setkomavar*{fromname}{Bearbeiter:}

200 \setkomavar*{myref}{Geschäftszeichen:}

201 \setkomavar*{enclseparator}{Anlage}

202 \setkomavar*{ccseparator}{Kopie an}

203 % \RequirePackage{hyperref}
204 % \AtBeginDocument{{
205 %   \usekomavar[\def\author]{fromname}
206 %   \usekomavar[\def\subject]{subject}
207 %   \hypersetup{%
208 %     pdftitle           = {\subject},
209 %     pdfauthor          = {\author},
210 %     pdfsubject         = {\subject},
211 %     pdfkeywords        = {\author, \subject},
212 %     pdflang            = de,
213 %     pdfdisplaydoctitle = true,
214 %     colorlinks         = true,
215 %     plainpages         = false,
216 %     hypertexnames      = false,

```

```

217 %      unicode,
218 %      }
219 %    }}

220 </letter>

221 </cls>

222 <*template>

```

5 Boilerplate / Template for letters

```

223 <*letter-md>

224 \documentclass{HUBerlin-letter}

```

We define two new variables.

```

225 \newkomavar{opening}
226 \newkomavar{closing}

227 $for(letteroption)$
228 \LoadLetterOption{$letteroption$}
229 $endfor$
230 $if(senderdetails)$\LoadLetterOption{$senderdetails$}$endif$
231 $if(addresseeimage)$\setkomavar{addresseeimage}{$addresseeimage$}$endif$
232 $if(backaddress)$\setkomavar{backaddress}{$backaddress$}\KOMAOPTIONS{backaddress=true}$endif$
233 $if(fromalign)$\KOMAOPTIONS{fromalign=$fromalign$}$endif$
234 $if(customer)$\setkomavar{customer}{$customer$}$endif$
235 $if(date)$\setkomavar{date}{$date$}$endif$
236 $if(fromaddress)$\setkomavar{fromaddress}{$fromaddress$}$endif$
237 $if(frombank)$\setkomavar{frombank}{$frombank$}$endif$
238 $if(fromemail)$\setkomavar{fromemail}{$fromemail$}\KOMAOPTIONS{fromemail=true}$endif$
239 $if(fromfax)$\setkomavar{fromfax}{$fromfax$}\KOMAOPTIONS{fromfax=true}$endif$
240 $if(fromlogo)$\setkomavar{fromlogo}{$fromlogo$}\KOMAOPTIONS{fromlogo=true}$endif$
241 $if(frommobilephone)$\setkomavar{frommobilephone}{$frommobilephone$}\KOMAOPTIONS{frommobilephone=true}$endif$
242 $if(fromname)$\setkomavar{fromname}{$fromname$}$endif$
243 $if(fromphone)$\setkomavar{fromphone}{$fromphone$}\KOMAOPTIONS{fromphone=true}$endif$
244 $if(fromurl)$\setkomavar{fromurl}{$fromurl$}\KOMAOPTIONS{fromurl=true}$endif$
245 $if(fromzipcode)$\setkomavar{fromzipcode}{$fromzipcode$}$endif$
246 $if(invoice)$\setkomavar{invoice}{$invoice$}$endif$
247 $if(location)$\setkomavar{location}{$location$}$endif$
248 $if(myref)$\setkomavar{myref}{$myref$}$endif$
249 $if(myrefname)$\setkomavar*{myref}{$myrefname$}$endif$
250 $if(place)$\setkomavar{place}{$place$}$endif$
251 $if(PPcode)$\setkomavar{PPcode}{$PPcode$}$endif$
252 $if(signature)$\setkomavar{signature}{$signature$}$endif$
253 $if(specialmail)$\setkomavar{specialmail}{$specialmail$}$endif$
254 $if(subject)$\setkomavar{subject}{$subject$}$endif$
255 $if(title)$\setkomavar{title}{$title$}$endif$

```

```

256 $if(yourmail)$\setkomavar{yourmail}{\yourmail$}$endif$
257 $if(yourref)$\setkomavar{yourref}{\yourref$}$endif$
258 $if(opening)$\setkomavar{opening}{\opening$}$endif$
259 $if(closing)$\setkomavar{closing}{\closing$}$endif$
260 $if(firstfoot)$\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.

```

261 $if(addressee)$
262 $else$
263 \KOMAOptions{addrfield=false}
264 $endif$

```

Now the actual content of the letter

```

265 \begin{document}
266 \begin{letter}{%}
267 $for(addressee)$
268 $addressee$$sep$\\
269 $endfor$
270 }

```

```

271 $for(include-before)$
272 $include-before$
273 $endfor$
274 \opening{\usekomavar{opening}}
275 $body$
276 \closing{\usekomavar{closing}}
277 $if(ps)$\ps{$ps$}$endif$
278 $if(encl)$\encl{$encl$}$endif$
279 $for(include-after)$$include-after$$endfor$
280 \end{letter}
281 \end{document}

282 \letter-md
283 \template

```

6 Documentation preamble <style>

```

284 \*sty
285 \*style
286 \makeatletter
287 \addtolength\marginparwidth{-40pt}
288 \addtolength\marginparsep{4mm}
289 \addtolength\oddsidemargin{-20pt}
290 \addtolength\evensidemargin{-20pt}
291 \let\PrintDescribeMacro=\@gobble
292 \let\PrintDescribeEnv=\@gobble
293 % \def\Describe@Macro#1{\endgroup
294 %      %\marginnote{\PrintDescribeMacro{#1}}%
295 %      \SpecialUsageIndex{#1}\@esphack\ignorespaces%
296 %      }
297 %\def\Describe@Env#1{\endgroup
298 %      %\marginnote{\PrintDescribeEnv{#1}}%
299 %      \SpecialEnvIndex{#1}\@esphack\ignorespaces%
300 %      }
301 \makeatother
302 \AtBeginDocument{\normalmarginpar}
303 \setlength\MacrocodeTopsep{.5\baselineskip}
304 \setlength\MacroIndent{6mm}
305
306
307 \RequirePackage{luatexbase}
308 \RequirePackage[ngerman,english]{babel}
309 \RequirePackage{calc}
310
311 \RequirePackage[
312   paper      = a4paper,    % - use A4 paper size
313   foot       = 2cm,
314   inner      = 3cm,        % - total body: left margin (odd pages)

```

```

315 top          = 3cm, % - total body: top margin
316 outer        = 3cm, % - total body: right margin (odd pages)
317 bottom       = 3cm, % - total body: bottom margin
318 marginparwidth = 2cm, % - width for side note
319 marginparsep  = .5cm, % - space between notes and body text (content)
320 % showframe,
321 ]{geometry}
322
323 \newlength\fullwidth
324 \setlength\fullwidth{\textwidth+\marginparwidth+\marginparsep}
325
326 \KOMAOptions{
327 numbers      = noenddot,
328 }
329 \AtBeginDocument{
330   \KOMAOptions{
331     % headwidth = {\fullwidth},
332     % footwidth = {\fullwidth},
333     footheight = 20pt,
334     headheight = 29pt,
335     captions   = tableheading,
336   }
337
338
339
340 \title{\HUBerlintitle}
341 %\subtitle{\HUBerlinsubtitle}
342 \author{\HUBerlinauthor}
343 \date{\Version}
344
345
346 %---- Required Packages
347 \RequirePackage{ifluatex, luatex85}
348
349
350 \ifluatex% LuaTeX
351 \else
352 \GenericError{HUBerlin}{Please use 'LuaLaTeX' as Compiler.^^J I abort here.}
353 \fi

```

For fonts we load the package **fontspec** [4] which has almost no limits handling font-stuff.

```

354 \RequirePackage{fontspec}

355 \RequirePackage[mono=false]{libertine}
356 \RequirePackage{amssymb}
357
358 \defaultfontfeatures{%
359   Ligatures = TeX
360   , Scale   = MatchLowercase
361   , Numbers = OldStyle
362 }

```

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

```
363 \setmainfont[%
364   Ligatures = TeX
365   ,Numbers   = OldStyle]{TeX Gyre Pagella}
```

And we declare also the other fonts, too.

```
366 \setmonofont[Scale=1]{TeX Gyre Cursor}
367 \setsansfont[%
368   ,LetterSpace = .8]{TeX Gyre Adventor-Regular}
369 \linespread{1.05}

370 \newfontfamily\listingsfont[
371   Scale           = MatchLowercase,
372 ]{TeX Gyre Cursor}
373 \renewcommand\MacroFont{\listingsfont}
374
375 \RequirePackage{marginnote}
376 \renewcommand*{\marginfont}{%
377   \rule{opt}{0.7\baselineskip}%
378   \footnotesize%
379   \color{HUBerlin-brown}}
380
381 \RequirePackage[
382   german = guillemets,
383   style   = german,
384 ]{csquotes}
385
386 \RequirePackage{enumitem}
387 \setlist{
388   nosep,
389   % itemindent=1em,
390   % labelindent=0.5\parindent,
391   leftmargin=*}
392 \newlist{tabitemize}{itemize}{2}% neue Listenumgebung
393 \setlist{tabitemize}{%
394   nosep,
395   leftmargin=*
396 }
397 \setlist{tabitemize,1}{label=\labelitemi}
398 \setlist{tabitemize,2}{label=\labelitemii}
399
400
401 \clubpenalty=10000 % prevent single lines at the beginning of a paragraph (Schustert)
402 \widowpenalty=10000 % prevent single lines at the end of a paragraph (Hurenkinder)
403 \displaywidowpenalty=10000 %
404
405 \RequirePackage{pdfpages}
406 \RequirePackage{biblatex}
407 \addbibresource{\jobname-bibliography.bib}
408 \addbibresource{\jobname-ctan.bib}
409 \RequirePackage{ccicons} %creative commons
410 \RequirePackage{xparse}
```

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

```

411 \RequirePackage{ragged2e}
412 \RequirePackage{microtype}
413 \RequirePackage{xspace}
414 \RequirePackage{graphicx}
415 \graphicspath{{img/}}

416 \RequirePackage{etoolbox}
417 %https://tex.stackexchange.com/a/235881/98739
418 \AfterEndPreamble{\maketitle}
419
420 % https://tex.stackexchange.com/a/401466/98739
421 \makeatletter
422 \renewcommand*{\maketitle}{%
423   % taken and shortened from /usr/share/texmf/tex/latex/koma-script/scrartcl.cls
424   \begin{titlepage}
425     \newgeometry{left=3cm, right=3cm, top=1.5cm, bottom=2cm}
426     \global\@topnum=\z@
427     \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
428     \null
429     {\large\@author\hfill Guideline and Documentation\par}
430     \vskip 10em%
431     {\begin{center}\color{HUBerlin-blue}
432       {\fontsize{50}{55}\selectfont\HUBerlinshort{} \par\vskip .5em%
433         \Large\sffamily\@title}\par
434         \vskip .5em
435       \end{center}}%
436       {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
437       \null\vskip 5em%
438       \blockquote[195]{Hoare1973}{Documentation must be regarded as an integral part of
439         A good programming language will encourage and assist the programmer to write clear
440         self-documenting code,
441         and even perhaps to develop
442         and display a pleasant style
443         of writing.}
444       \null\vfill
445       {\usekomafont{subtitle}{\@date \hfill
446         \includegraphics[width=4cm]{texografie}\}\}%
447         \par
448         \vskip 0em
449         \restoregeometry
450         \end{titlepage}
451       }%
452       \makeatother
453
454 \RequirePackage{xcolor}
455 \definecolor{HUBerlin-blue}{RGB}{0,65,137} % HEX 004189
456 \definecolor{HUBerlin-green}{RGB}{150,190,20} % HEX 93C11A % Topoi
457 \definecolor{HUBerlin-grey}{RGB}{169,169,169}
458 \definecolor{HUBerlin-brown}{RGB}{82,79,60}
459 \definecolor{HUBerlin-red}{RGB}{180,0,0}
460
461
462 \usepackage{dirtree}

```



```

463 \renewcommand*{DTstylecomment}{%
464   \color{HUBerlin-grey}%
465   \footnotesize%
466   \sffamily}
467 \renewcommand*{DTstyle}{%
468   \ttfamily%
469   \small%
470 }
471
472 \RequirePackage[
473   markcase      = noupper,
474   footsepline   = .5pt,
475   % headsepline = .5pt,
476   autooneside   = false,% use left and right marks with a onesided document
477   automark,% set \leftmark and \rightmark automatically by *\section and \subsection
478   draft         = false,
479 ]{scrlayer-scrpage}
480
481 \pagestyle{scrheadings}
482 \clearscrheadfoot
483 \rofoot*{\thepage}
484 \lofoot*{\textcolor{HUBerlin-blue}{\HUBerlintitle}\ \vrule\ \textcolor{HUBerlin-
   brown}{\HUBerlinsubtitle}}
485 \rohead*{HUBerlin-bundle}
486 \lohead*{Version: \Version}

487 % https://tex.stackexchange.com/a/352925/98739
488 \newcommand*\partnumber{}
489 \DeclareNewLayer[
490   background,
491   textarea,
492   addwidth=\marginparsep+\marginparwidth,
493   mode=picture,
494   contents={%
495     \putC{\makebox[opt][c]{\raisebox{-.5\height}{\scalebox{50}{\textcolor{black!5}{\part
496     }
497 }]{partnumber}
498 \DeclareNewPageStyleByLayers{part}{partnumber}
499 \renewcommand\partpagestyle{part}
500 \renewcommand*\partformat{\gdef\partnumber{\thepart}}
501
502 % only a dirty workaround for the part title
503 \newcommand*\changedpartwidth[1]{%
504   \makebox[\linewidth][l]{%
505     \parbox{\dimexpr\textwidth+\marginparsep+\marginparwidth\relax}{\raggedpart#1}%
506   }%
507 }
508 % add \changedpartwidth as last command to the settings for font element part
509 \addtokomafont{part}{\Huge\changedpartwidth}
510
511
512
513 %-https://tex.stackexchange.com/a/339516/98739 | https://tex.stackexchange.com/a/98739

```

```

514 % footnotes in the footer:
515 \deffootnote%
516   %[\normalparindent]%<width of mark>
517   {0.0cm}%<indent of footnote text>
518   {\normalparindent}%<paragraph indent in the footnote text>
519   {\makebox[\normalparindent][r]%
520    {\thefootnotemark\hspace*{3pt}}}%<definition of mark>
521 \newlength{\normalparindent}
522 \AtBeginDocument{\setlength{\normalparindent}{\parindent}}
523 \setfootnoterule{opt}% Kein Fußnotenstrich
524 %\setfootnoterule[<height>]{<length>}
525

```

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

```

526 \renewcommand\sectionlinesformat[4]{%
527   \makebox[opt][r]{#3}#4%
528 }

529 \RequirePackage{url}
530 % \urlstyle{same}
531
532 \setkomafont{title}{\sffamily\color{HUBerlin-blue}\flushleft\bfseries}
533 \setkomafont{disposition}{\color{HUBerlin-brown}\sffamily\bfseries\large}
534 \setkomafont{section}{\usekomafont{disposition}}
535 \setkomafont{subsection}{\usekomafont{disposition}}
536 \setkomafont{subsubsection}{\usekomafont{disposition}}
537 % \setkomafont{paragraph}{\bfseries}
538 % \setkomafont{subsubsection}{\sffamilybold}
539 \setkomafont{subtitle}{\large\color{HUBerlin-brown}\sffamily\flushleft}
540 \setkomafont{pageheadfoot}{\footnotesize\sffamily\color{HUBerlin-grey}}
541 \setkomafont{descriptionlabel}{\bfseries}
542 \setkomafont{footnotelabel}{\bfseries}
543 \addtokomafont{titlehead}{\flushright}
544 % \setkomafont{headsepline}{\color{HUBerlin-blue}}
545 %\setkomafont{marginnote}{\MakeUppercase\color{HUBerlin-brown}}
546 \addtokomafont{caption}{\scriptsize}
547 \setkomafont{captionlabel}{\bfseries\sffamily}
548 \setkomafont{subject}{\bfseries\sffamily}
549 \setcapindent{opt}
550
551 \raggedbottom
552
553 \usepackage{listings}
554 \PassOptionsToPackage{final}{listings}
555 \usepackage[%
556   skins
557   ,listings
558   ,breakable
559   ,xparse
560   ,documentation
561 ]{tcolorbox}
562 \lstMakeShortInline[language=TeX,basicstyle=\ttfamily]|

```

Following we load **hyperxmp** [3] and **hyperref** [2] for PDF-meta data and interactive linked text.

```

563 \RequirePackage{hyperxmp}
564 \RequirePackage{hyperref}
565 \hypersetup{% setup the hyperref-package options
566   unicode      = true,
567   pdfauthor    = {HUBerlin}, % - author (PDF meta)
568   pdfauthortitle = {},
569   pdfcopyright = {Copyright (c) \the\year . All rights reserved.},
570   pdfhighlight = /N,
571   pdfdisplaydoctitle = true,
572   pdfdate      = {\today},
573   pdflang      = {}, %de en
574   pdfcaptionwriter = {Lukas C. Bossert},
575   pdfkeywords   = {HUBerlin},
576   pdfencoding   = auto,
577   pdfproducer   = {HUBerlin with LuaLaTeX},
578   bookmarksnumbered = true,
579   bookmarksopenlevel = 2,
580   bookmarksopen = true,
581   bookmarksdepth = 3,
582   colorlinks    = true, %Colours links instead of ugly boxes
583   urlcolor      = HUBerlin-blue, %Colour for external hyperlinks
584   linkcolor     = black, %Colour of internal links
585   citecolor     = black, %Colour of citations
586   linktoc       = page,
587   pdfborder     = {0 0 0},
588   breaklinks    = true, %allow line break inside links
589   final
590 }
591 \RequirePackage{bookmark}
592
593 \RequirePackage[
594   sort,
595   nameinlink,
596   compress,
597   ngerman,english
598 ]{cleveref}
599
600
601 %---- newcommands
602 \newcommand{\TeXografie}{Lukas C. Bossert
603   (www.TeXografie.de) }
604 \newcommand\HUBerlin{\HUBerlintitle\xspace}
605
606
607 \newcommand\HUBerlinFolder{%
608   \begingroup%
609   \normalfont%
610   \color{HUBerlin-blue}%
611   % \faFolderOpen% taken from fontawesome
612   \hspace{.3em}%
613   \endgroup}
614
615

```

```

616
617 \RedeclareSectionCommands[
618   tocraggedpagenumber,
619   toclinefill=\tocpageseparator,
620   tocindent=oem,
621   tocnumwidth=4em,
622   tocpagenumberbox=\tocpagenumberbox% <- added
623 %   tocpagenumberformat=\textsf,
624 ]{chapter, section, subsection, subsubsection, paragraph}
625
626 \newcommand\tocgobble[1]{}% <- added
627 \newcommand\tocpageseparator{\footnotesize\, \mbox{---}\, }
628 \newcommand\tocpagenumberbox[1]{\mbox{#1}}% <- added
629 \KOMAOptions{toc=indentunnumbered}
630
631 \RedeclareSectionCommand[
632 %   tocbeforeskip=1.25em plus 1pt
633   ,tocentryformat=\large\scshape%
634   ,tocindent=oem
635   ,tocnumwidth=4em
636   ,tocpagenumberbox=\tocgobble% <- added
637 ]{part}
638 % \addtokomafont{partentry}{\scshape\sffamily\bfseries}
639
640 \RedeclareSectionCommand[%
641 %   ,beforeskip=1.15em plus 1pt%
642 ,tocentryformat=\textbf%
643 %   ,toclinefill={\TOCLineLeaderFill}%\TOCLineLeaderFill[\textbf{.}]
644 ]{chapter}
645
646
647
648
649 \newtcolorbox{example}[1][{}{
650   breakable,
651   top=5pt,
652   bottom=5pt,
653   colback=HUBerlin-blue!10,
654   colframe=HUBerlin-blue,
655   left=5pt,
656   right=5pt,
657   sharp corners,
658   boxrule=0pt,
659   bottomrule=2pt,
660   toprule=2pt,
661   enhanced jigsaw,
662   lefttitle=opt,
663   coltitle=white,
664   fonttitle=\bfseries,
665   fontupper=\small,%\ttfamily,
666   % colbacktitle=HUBerlin-blue!20
667   #1,
668 }

```

```

669
670 % Replace the squat-u symbol for spaces
671 % https://tex.stackexchange.com/a/488123/98739
672 \makeatletter
673 \def\lst@visiblespace{\lst@ttfamily{\char32}$\textcolor{HUBerlin-grey}{\cdot}$}
674 \makeatother
675
676
677 \lstset{%
678   basicstyle = \linespread{0.7}\listingsfont
679   ,breaklines = true
680   ,breakatwhitespace
681   ,alsoletter=\\{\}\*\[\\]-
682   ,showstringspaces=true
683 }
684
685 \lstdefinestyle{HUBerlinlistingstyledef}{%
686   tabsize      = 4,
687   breaklines    = true,
688   breakatwhitespace = true,
689   postbreak=\mbox{$\hookrightarrow$},
690   %keepspaces    = true,
691   escapeinside  = {(*@}{@*)},
692   moredelim     = {[is][\ttfamily\bfseries\color{HUBerlin-blue}]{|}{|}},
693   moredelim     = {[is][\ttfamily\bfseries\color{HUBerlin-blue}]{|_}{|_}},
694   moredelim     = {[is][\ttfamily\bfseries\color{HUBerlin-red}]{|_}{|_}},
695   aboveskip=opt,
696   belowskip=opt,
697   captionpos=b,
698   resetmargins=true,
699   sensitive=true,
700   upquote=true,
701   showspaces=true,
702   showtabs=true,
703   tab=\textcolor{HUBerlin-grey}{\rightarrowfill},
704   %numbers=left,
705   %numberstyle=\footnotesize\ttfamily\color{HUBerlin-grey},
706   comment       = [l]{\%},
707   commentstyle  = \footnotesize\color{HUBerlin-grey}\addfontfeature{LetterSpace=.7},
708   % deletecomment = [l]{\%<}
709   % morecomment  = [l][\nullfont]{\%<},
710   % deletecomment = [is]{\%<}{>},
711 }
712
713 \lstdefinestyle{HUBerlinlistingstyle}{%
714   language = {TeX},
715   style    = {HUBerlinlistingstyledef},
716 }
717
718
719
720
721

```

```

722
723 \tcbset{%
724 HUBerlinstyle/.style={%
725   enhanced,
726   before skip=2mm,
727   after skip=3mm,
728   boxrule=0.7pt,
729   left=2mm,
730   right=2mm,
731   top=2mm,
732   bottom=2mm,
733   sharp corners,
734   colback=white,
735   colbacklower=white,
736   % fonttitle=\sffamily\bfseries,
737   breakable,
738   %before skip=\baselineskip,
739   coltitle=white,
740   colbacktitle=HUBerlin-blue!50!black,
741   fonttitle=\bfseries\sffamily\footnotesize,
742   % before upper={\mynote{\thetcbcounter}},
743   title={\hfill{Example \thetcbcounter}},
744 },
745 codecomment/.style={%
746   listing outside comment,%
747   boxrule=opt,
748   colback=white,
749 }
750 }
751
752 \newtcolorbox{warning}[1][]{
753   enhanced,
754   before skip=2mm,
755   after skip=3mm,
756   boxrule=0.7pt,
757   left=5mm,
758   right=2mm,
759   top=2mm,
760   bottom=2mm,
761   colback=white,
762   colframe=yellow!20!black,
763   sharp corners,
764   rounded corners=southeast,
765   arc is angular,
766   arc=3mm,
767   underlay={%
768 \path[fill=HUBerlin-grey!80!black] ([yshift=3mm]interior.south east)--
++(-0.4,-0.1)--++(0.1,-0.2);
769 \path[draw=HUBerlin-grey,shorten <=-0.05mm,shorten >=-0.05mm] ([yshift=3mm]interior
++(-0.4,-0.1)--++(0.1,-0.2);
770 \path[fill=red!50!black,draw=none] (interior.south west) rectangle node[white]{\Huge
771 },
772   drop fuzzy shadow,

```

```

773 #1
774 }
775
776 \newtcblisting[%
777   auto counter,
778   crefname = {example}{examples},
779   Crefname = {Example}{Examples},
780 ]{codetext}[2][]{%
781   HUBerlinstyle,
782 %   side text,
783   rounded corners=northeast,
784   arc=6mm,
785   listing style=HUBerlinlistingstyle,
786   label = #2,
787   #1,
788 }
789
790 \newtcblisting[%
791   use counter from=codetext,
792   crefname={code example}{code examples},
793   Crefname={Code example}{Code examples}%
794 ]{code}[2][]{%
795   HUBerlinstyle,
796   rounded corners=southeast,
797   arc=6mm,
798   listing only,
799   listing style=HUBerlinlistingstyle,
800   label = #2,
801   #1,
802 }
803
804
805 \DeclareTCBInputListing[%
806   use counter from=codetext,
807   crefname={code example}{code examples},
808   Crefname={Code example}{Code examples}%
809 ]{\HUBerlinlisting}{ O{} m }{%
810   HUBerlinstyle,
811   listing file={#2},
812   listing only,
813   listing style=HUBerlinlistingstyle,
814   #1,
815 }
816
817 \makeatletter
818 \newrobustcmd*{\fnurl}[1][]{\hyper@normalise\ltd@fnurl{#1}}
819 \def\ltd@fnurl#1#2{\footnote{#1\hyper@linkurl{\Hurl{#2}}{#2}}}
820 \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.

```

821 \RequirePackage{newfile}
822 \newoutputstream{pkglist}

823 \NewDocumentCommand{\pkg}{om}{%
824   \IfNoValueTF{#1}
825   {\lowercase{\href{http://www.ctan.org/pkg/#2}}{\textbf{#2}}}
826   {\lowercase{\href{http://www.ctan.org/pkg/#1-#2}}{\textbf{#2}}}%
827   \space\cite{#2}%
828   \addtostream{pkglist}{#2}}

829 \newrobustcmd*{\lit}[1]{\textsf{#1}}
830 \newrobustcmd*{\Code}[1]{\texttt{#1}}
831 \newrobustcmd*{\tex}{\TeX}
832 \newrobustcmd*{\etex}{\mbox{e-TeX}}
833 \newrobustcmd*{\pdftex}{pdf-\tex}
834 \newrobustcmd*{\xetex}{Xe-\tex}
835 \newrobustcmd*{\luatex}{Lua-\tex}
836 \newrobustcmd*{\latex}{\LaTeX}%{La\kern-0.07em TeX}
837 \newrobustcmd*{\pdflatex}{pdf-\latex}
838 \newrobustcmd*{\xelatex}{Xe-\latex}
839 \newrobustcmd*{\lualatex}{Lua-\latex}
840 \newrobustcmd*{\miktex}{Mik-\tex}
841 \newrobustcmd*{\texlive}{\tex~live}
842 \newrobustcmd*{\bibtex}{Bib\kern-0.07em TeX}
843 \newrobustcmd*{\lppl}{\latex{} Project Public License}
844 \newrobustcmd*{\pdf}{\PDF}
845 \newrobustcmd*{\md}{\Markdown}
846 \newrobustcmd*{\utf}{\mbox{{UTF}-8}}
847 % no \mbox here, we may have to break things
848 \newrobustcmd*{\bibfield}[1]{\Code{#1}}
849 \newrobustcmd*{\opt}[1]{\Code{#1}}
850 \newrobustcmd*{\bibmacro}[1]{\Code{#1}}
851 \newrobustcmd*{\bibtype}[1]{\Code{@#1}}
852 %\renewrobustcmd*{\cmd}[1]{\Code{\textbackslash #1}}
853 \renewrobustcmd\meta[1]{\normalfont\texttriangle\itshape#1\!/}{\textrangle}}
854
855 % directly taken from ltxdoc.dtx
856 \renewrobustcmd\marg[1]{%
857   {\ttfamily\textcolor{HUBerlin-red}{\{ \}}}%
858   \meta{#1}%
859   {\ttfamily\textcolor{HUBerlin-red}{\{ \}}}%
860 }
861
862 \renewrobustcmd\oarg[1]{%
863   {\ttfamily\textcolor{HUBerlin-green}{\{ \}}}%
864   \meta{#1}%
865   {\ttfamily\textcolor{HUBerlin-green}{\{ \}}}%
866 }
867
```

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


```

868 % adapted from listings.dtx (lstdoc.sty)
869 \renewrobustcmd\cmd[1]{%
870   \texttt{\color{HUBerlin-blue}\textbackslashstring#1}\xspace%
871 }
872
873 \newrobustcmd\env[2][]{%
874   \texttt{%
875     \color{HUBerlin-blue}%
876     \textbackslash begin\{\string#2\}\#1}%
877     \ldots
878     \texttt{%
879       \color{HUBerlin-blue}%
880       \textbackslash end\{\string#2\}}%
881     \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)}`.

```

882 \newcommand\param[1]{%
883   \begingroup%
884   \normalfont%
885   \ttfamily%
886   \bfseries%
887   \textless%
888   #1%
889   \ttfamily%
890   \bfseries%
891   \textgreater%
892   \endgroup}

893 \pdfstringdefDisableCommands{%
894   \def\lstinline#1{<#1>}
895   \def\tex{TeX}%
896   \def\etex{e-TeX}%
897   \def\xetex{XeTeX}%
898   \def\latex{LaTeX}%
899   \def\xelatex{XeLaTeX}%
900   \def\bibtex{BibTeX}%
901   \def\lppl{LaTeX Project Public License}%
902   \def\pdf{PDF}%
903   \def\utf{UTF-8}%
904   \def\{\}%
905   \def\texttt#1{<#1>}%
906   \def\marg#1{\{\#1\}}%
907   \def\oarg#1{[#1]}%
908   \def\color#1#2{}%
909   \def\env#1{<#1>}
910   \def\cmd#1{\#1}
911 }

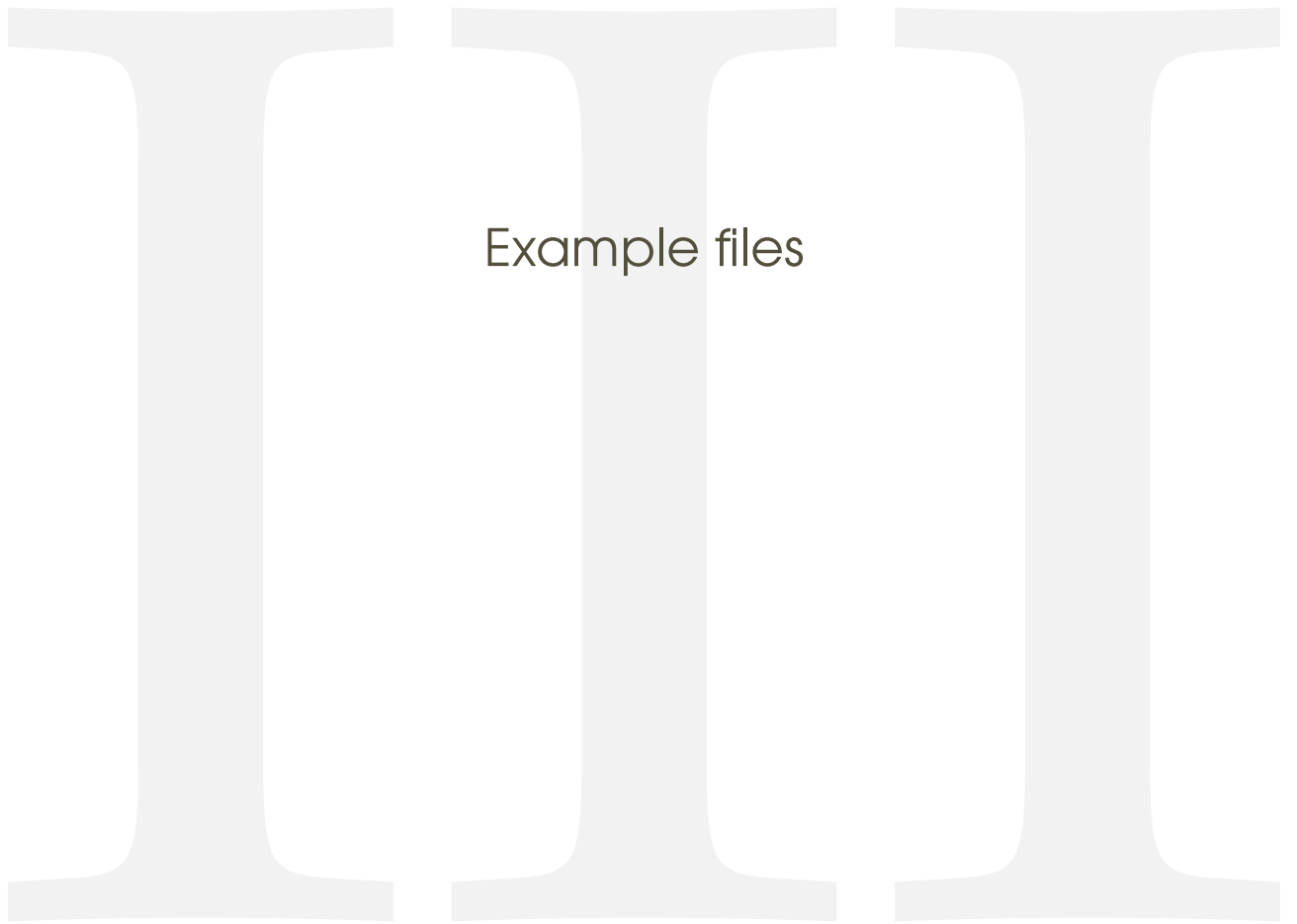
912 % https://tex.stackexchange.com/a/24067/98739
913 \makeatletter
914 \patchcmd{\scr@startchapter}{\if@openright\cleardoublepage\else\clearpage\fi}{}{}{}
915 \makeatother
916 %
917 \usepackage[tightLists=false]{markdown}

```

```
918 \markdownSetup{rendererPrototypes={%  
919 link = {\href{#3}{#1}}}%  
920 }}  
921 \</style>  
  
922 \</sty>
```

Bibliography

- [1] Charles Antony Richard Hoare. »Hints on programming language design«. In: *Computer Systems Reliability*. Ed. by C. Bunyan. State of the Art Report 20. 1973, pp. 193–216. URL: <http://flint.cs.yale.edu/cs428/doc/HintsPL.pdf> (visited on 09/06/2018).
- [2] Heiko Oberdiek and Sebastian Rahtz. *The Hyperref package. Extensive support for hypertext in LaTeX*. Version 6.88e. Nov. 30, 2018. URL: <https://github.com/ho-tex/hyperref> (visited on 05/14/2019).
- [3] Scott Pakin. *The Hyperxmp package. Embed XMP metadata within a LaTeX document*. Version 4.1. URL: <http://www.ctan.org/pkg/hyperxmp> (visited on 05/14/2019).
- [4] Will Robertson. *The Fontspec package. Advanced font selection in XeLaTeX and LuaLaTeX*. Version 2.7c. URL: <http://www.ctan.org/pkg/fontspec> (visited on 05/14/2019).

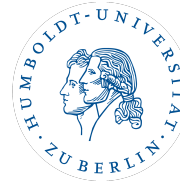


Example files

7 Letter

7.1 From **.tex**

HUMBOLDT-UNIVERSITÄT ZU BERLIN



HU Berlin | August-Boeckh-Antikezentrum | D-10099 Berlin

Erika Musterfrau
Musterweg 43
56789 Musterhausen

Philosophische Fakultät I

August-Boeckh-Antikezentrum

Text Text Text Text Text Text Text
Text Text Text Text Text Text Text
Text Text Text Text Text Text Text
Text Text

Prof. Dr. Max Mustermann
chef

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:
22. 5. 2019

Wissenschaftlicher Mitarbeiter
Dr. Heinz Hermann

Geschäftszeichen:
111

Ihr Zeichen
X

Ihr Schreiben vom
3.5.2019

Kundennummer
234

Rechnungsnummer
444

Postanschrift:
Humboldt-Universität zu Berlin
Unter den Linden 6
D-10099 Berlin
Telefon +49 [30] 2093-70550

max.mustermann@hu-berlin.de
heinz.hermann@hu-berlin.de
www.antikezentrum.hu-berlin.de

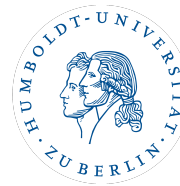
Sitz:
Mohrenstraße 40/41
Zimmer 14
D-10117 Berlin

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. Max Mustermann – Dr. Heinz Hermann

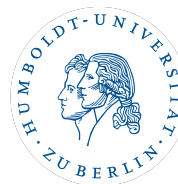
PS: ...

Anlage: Anlage 1
Anlage 2

Kopie an: Verteiler 1
Verteiler 2

7.2 From **.md**

HUMBOLDT-UNIVERSITÄT ZU BERLIN



HU Berlin | August-Boeckh-Antikezentrum | D-10099 Berlin

Alexander von Humboldt
Unter den Linden 6
10099 Berlin

Philosophische Fakultät I

August-Boeckh-Antikezentrum

Text Text Text Text Text Text Text
Text Text Text Text Text Text Text
Text Text Text Text Text Text Text
Text Text

Prof. Dr. Max Mustermann
chef

Sehr geehrte Damen und Herren

Thank you very much for your letter.

Mit freundlichen Grüßen

Prof. Dr. Max Mustermann – Dr. Heinz Hermann

Datum:

10. Mai 2010

Wissenschaftlicher Mitarbeiter

Dr. Heinz Hermann

Postanschrift:

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IBAN DE95 1007 0848 0512 6206 01
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