

HSR–Stud Document Classes

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Contents

1	Purpose of these document classes	1
2	Class Options	1
3	Extra Metadata	2
4	Zusammenfassung <code>hsrzf</code> class	2
4.1	Class options	2
5	Bericht <code>hsrbericht</code> class	2
5.1	Metadata	2
6	Minimal working examples	3
7	License	3
8	Implementation	5

1 Purpose of these document classes

The following document classes were made by and for the HSR-Stud organization. These classes are intended to be used to create beautiful summaries and cheat sheets. Available classes are:

`hsrzf` For summaries (Zusammenfassung)

`hsrbericht` For reports (Bericht)

2 Class Options

`sans` Use Sans-Serif fonts (`cmbright` and `hfbright`).

`slab` Use Slab-Serif fonts (`bitter` and `eulervm`).

`margin=<size>` Sets up margins to reasonable size.

* Any other given option is passed to the underlying class (article).

Size	H	V	Size	H	V
huge	45	40	small	20	20
large	35	35	tiny	10	20
big	30	30	minimal	5	20
normal	25	30			

Table 1: Sizes for the `margin` option. All sizes are in millimeters

3 Extra Metadata

Thanks to the `titling` package, normal metadata informations are available through the following commands: `\theauthor`, `\thedata`, `\thetitle`. Additionally, more metadata variables have been created for this class, to conserve informations related to the university course.

`\course` The degree programme of the discussed subject. Example: `Elektrotechnik`

`\module` Short name of the module according to the class schedule. Example: `ComEng1`

`\semester` Semester during which the summarized subject was taught. Example: `FS20`

`\institute` Internal institute in which the module was taught. This field is optional.

`\authoremail` Email of the author. This field is optional.

`\maintainer` Name of the person maintaining the work. This field is optional.

`\contributors` List of names of those who have contributed to the document. This field is optional.

Like `\date`, `\title`, etc. these fields have too an accessor macro `\the<metadata>`. For example: `\thecourse`, `\thetitle`, and so on.

4 Zusammenfassung `hsrzf` class

This class is intended to be used to write short summaries.

4.1 Class options

`header` Use the HSR-Stud standard header. The option `noheader` disables the header.

5 Bericht `hsrbericht` class

This class tries to conform to the indications given by the communication department of the HSR. The specifications are found in the “Werkzeugkastens Technische Berichte”.

5.1 Metadata

In addition to the metadata described in the previous section. This class requires:

`\subtitle` Pretty self explanatory.

`\category` Category assigned to the project. This field is optional.

`\project` Name or reference to your project.

`\topic` Your chosen topic in the category.

\instructor Name of the instructor / academic that is following or has assigned your work.

\startdate Date when you started the project.

\finishdate Date when you finished the project (can be set to `\today` to keep automatically updated).

\address Address or place where your work is produced. This field is optional.

\matriculationnr Your matriculation number.

\logo Code to insert your logo.

\clientlogo Code to insert the logo of the client / research department /

6 Minimal working examples

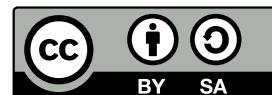
```

1 % \documentclass[margin=normal]{hsrzf}
2 %
3 % % Packages
4 % %% the HSRStud package
5 % \usepackage{hsrstud}
6 %
7 % % Metadata
8 % \course{Elektrotechnik}
9 % \module{ModAbk}
10 % \semester{Herbstsemester 2020}
11 %
12 % \authoremail{vname@hsr.ch}
13 % \author{\textsl{Vorname Name} -- \texttt{\theauthoremail}}
14 %
15 % \title{\texttt{\themodule} Zusammenfassung}
16 % \date{\thesemester}
17 %
18 % % document
19 % \begin{document}
20 % \maketitle
21 % \tableofcontents
22 % \section{Introduction}
23 % \[
24 % \quad i\hbar \partial_t \left| \psi(t) \right\rangle
25 % \quad = \hat{H} \left| \psi(t) \right\rangle
26 % \]
27 %
28 % \end{document}

```

7 License

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Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols	\fancyhead 300, 301, 302, 314, 315, 316, 389, 390, 391, 400, 401, 402	\hsr@margin 247, 251, 255, 259, 263, 267, 271, 275
\" 372	\fancyhf 299, 313, 388, 399	\hsr@matriculationnr ... 153, 154, 155, 354
\@author 352	\fancypagestyle 298, 312, 387, 398	\hsr@module ... 86, 87, 88
\@currname 61	\fi 73, 194, 198, 204, 212, 216, 222, 229, 234, 240, 283, 328	\hsr@project 124, 125, 126
\@date 302, 316	\finishdate 144, 145, 393, 404	\hsr@semester .. 90, 91, 92
\@empty 247	\fontsize ... 341, 343, 345	\hsr@startdate 140, 141, 142, 359
\@title 341, 389, 400	\footrulewidth 309, 323, 395, 406	\hsr@subtitle 115, 116, 117, 343
\@unknownoptionerror . 72		\hsr@topic 128, 129, 130, 353
\@ 342, 344, 346, 348, 350, 352, 353, 354, 355, 357, 359, 360, 393, 404		\hsr@version 132, 133, 134, 348
A	G	\hsr@vmarginheight 245, 249, 253, 257, 261, 265, 269, 273, 277, 282, 293, 381
\address 149, 150	\gdef 82, 86, 90, 95, 99, 103, 107, 115, 120, 124, 128, 132, 136, 140, 144, 149, 153, 158, 162	I
\authoremail 99, 100	\goal 368	\ifhsr@concrete 195, 213, 225
B	H	\ifhsr@header 326
\begin 337, 339, 347, 351, 358	\headrulewidth 308, 322, 394, 405	\ifhsr@sans . 189, 208, 226
C	\href 304, 318	\ifhsr@slab . 190, 207, 230
\category 120, 121	\hsr@address 149, 150, 151, 355	\ifstrequal . 251, 255, 259, 263, 267, 271, 275
\ClassError 83, 87, 91, 116, 125, 129, 133, 137, 141, 145, 154, 280	\hsr@authoremail 99, 100, 101, 353	\ifx 60, 247
\ClassWarning 96, 100, 104, 108, 121, 150, 159, 163	\hsr@category 120, 121, 122, 345	\institute 95, 96
\clientlogo 162, 163	\hsr@clientlogo 162, 163, 164, 390, 401	\instructor 136, 137
\contributors ... 107, 108	\hsr@contributors 107, 108, 109	J
\course 82, 83	\hsr@course 82, 83, 84, 354	\jobname 393, 404
\CurrentOption . 62, 66, 68	\hsr@finishdate 144, 145, 146, 360	K
\CurrentOptionValue .. 60	\hsr@hmarginwidth 244, 248, 252, 256, 260, 264, 268, 272, 276, 281, 292, 380	\keywords 372
D	\hsr@institute . 95, 96, 97	L
\DeclareBoolOption 34, 38, 39, 40	\hsr@instructor 136, 137, 138, 352	\leftmark 300, 314
\DeclareComplementaryOption 35	\hsr@logo 158, 159, 160, 391, 402	\LoadClass 170
\DeclareDefaultOption . 59	\hsr@maintainer 103, 104, 105	\logo 158, 159
\DeclareStringOption 52, 55		M
E		\maintainer 103, 104
\else 69, 250		\maketitle 336
\end 349, 356, 361, 362, 363		\matriculationnr 153, 154
\expandafter 67, 68, 251, 255, 259, 263, 267, 271, 275		\MessageBreak 62
F		\method 369
\fancyfoot 304, 305, 306, 318, 319, 320, 392, 393, 403, 404		\module 86, 87

N	\PassOptionsToPackage	T
<code>\NeedsTeXFormat</code> 5, 10	. . . . . 180,	<code>\textbf</code> 341, 343,
<code>\newcommand</code>	200, 218, 220, 236, 238	345, 348, 352, 359, 360
. . . 82, 83, 84, 86,	<code>\problem</code> 367	<code>\texttt</code>
87, 88, 90, 91, 92,	<code>\ProcessKeyvalOptions</code> . 76	304, 305, 318, 319, 353
95, 96, 97, 99, 100,	<code>\project</code> 124, 125	<code>\theaddress</code> 151
101, 103, 104, 105,	<code>\ProvidesClass</code> 6, 11	<code>\theauthoremail</code> 101
107, 108, 109, 115,	R	<code>\thecategory</code> 122
116, 117, 120, 121,	<code>\relax</code> 60	<code>\theclientlogo</code> 164
122, 124, 125, 126,	<code>\renewcommand</code>	<code>\thecontributors</code> 109
128, 129, 130, 132,	. . . . . 308, 309, 322, 323,	<code>\thecourse</code> 84
133, 134, 136, 137,	. . . . . 336, 394, 395, 405, 406	<code>\thefinishdate</code> 146
138, 140, 141, 142,	<code>\renewenvironment</code> . . . 365	<code>\theinstitute</code> 97
144, 145, 146, 149,	<code>\RequirePackage</code>	<code>\theinstructor</code> 138
150, 151, 153, 154,	. . . . . 20, 21, 22, 25, 173,	<code>\thelogo</code> 160
155, 158, 159, 160,	. . . . . 174, 175, 176, 177,	<code>\themaintainer</code> 105
162, 163, 164, 367,	. . . . . 181, 201, 202, 203,	<code>\thematriculationnr</code> . 155
368, 369, 370, 371, 372	. . . . . 219, 221, 237, 239, 377	<code>\themodule</code> . . 88, 301, 315
<code>\newgeometry</code> . . . 291, 379	<code>\results</code> 370	<code>\thepage</code> 306, 320, 392, 403
<code>\newlength</code> 244, 245	S	<code>\theproject</code> 126
<code>\noexpand</code> 83, 87,	<code>\section</code> 366	<code>\thesemester</code> 92
91, 96, 100, 104,	<code>\selectfont</code> . 341, 343, 345	<code>\thestartdate</code> 142
108, 116, 121, 125,	<code>\semester</code> 90, 91	<code>\thesubtitle</code> 117
129, 133, 137, 141,	<code>\setlength</code> 248,	<code>\thetopic</code> 130
145, 150, 154, 159, 163	. . . . . 249, 252, 253, 256,	<code>\theversion</code> 134
P	. . . . . 257, 260, 261, 264,	<code>\thispagestyle</code> 338
<code>\PackageError</code> 191, 209, 231	. . . . . 265, 268, 269, 272,	<code>\topic</code> 128, 129
<code>\PackageWarningNoLine</code> . 61	. . . . . 273, 276, 277, 281, 282	V
<code>\pageref</code> 306, 320, 392, 403	<code>\SetupKeyvalOptions</code> . . 28	<code>\version</code> 132, 133
<code>\pagestyle</code> 327, 409	<code>\startdate</code> 140, 141	<code>\vspace</code> 340,
<code>\paragraph</code> 367,	<code>\subtitle</code> 115, 116	. . . . . 342, 344, 346, 350, 357
368, 369, 370, 371, 372	<code>\suggestions</code> 371	
<code>\PassOptionsToClass</code> . . 67		

8 Implementation

```

1 %^A%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2 %^A Class Headers
3
4 <*hsrzf>
5 \NeedsTeXFormat{LaTeX2e}
6 \ProvidesClass{hsrzf}[2020/04/05 v0.1 HSRStud Summary class]
7 </hsrzf>
8
9 <*hsrbericht>
10 \NeedsTeXFormat{LaTeX2e}
11 \ProvidesClass{hsrbericht}[2020/05/05 v0.1 HSRStud Report class]
12 </hsrbericht>
13
14 %^A%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
15 %^A Implementation
16 %
17 <*hsrzf | hsrbericht>
18
19 %% Coding Packages (Dependencies)
20 \RequirePackage{iftex}
21 \RequirePackage{kvoptions}

```

```

22 \RequirePackage{etoolbox}
23
24 %% Default font
25 \RequirePackage{lmodern}
26
27 %% Class options
28 \SetupKeyvalOptions{
29   family=hsr,
30   prefix=hsr@
31 }
32
33 %% Use header and footer
34 \DeclareBoolOption[false]{header}
35 \DeclareComplementaryOption{noheader}{header}
36
37 %% Use a sans-serif slab-serif or concrete font
38 \DeclareBoolOption[false]{sans}
39 \DeclareBoolOption[false]{slab}
40 \DeclareBoolOption[false]{concrete}
41
42 %% Configures the geometry package
43 %%
44 %% Possible values:
45 %% - huge      (45mm, 40mm)
46 %% - large     (35mm, 35mm)
47 %% - big       (30mm, 30mm)
48 %% - normal    (25mm, 30mm)
49 %% - small     (20mm, 20mm)
50 %% - tiny      (10mm, 20mm)
51 %% - minimal   ( 5mm, 20mm)
52 \DeclareStringOption{margin}[huge]
53
54 %% Configures the polyglossia package
55 % \DeclareStringOption[] {lang} {german}
56
57
58 %% Pass other options to the class
59 \DeclareDefaultOption{%
60   \ifx\CurrentOptionValue\relax
61     \PackageWarningNoLine{\@currname}{%
62       Unknown option ``\CurrentOption''\MessageBreak
63       is passed to class ``article''%
64     }%
65     % Pass the option to package color.
66     % Again it is better to expand \CurrentOption.
67     \expandafter\PassOptionsToClass
68     \expandafter{\CurrentOption}{article}
69   \else
70     % Package color does not take options with values.
71     % We provide the standard LaTeX error.
72     \@unknownoptionerror
73   \fi
74 }
75
76 \ProcessKeyvalOptions{hsr}
77
78
79 %% Create new metadata fields

```

```

80
81 %% Required fields
82 \newcommand\course[1]{\gdef\hsr@course{#1}}
83 \newcommand\hsr@course{\ClassError{hsrzf}{no \noexpand\course given}{}}
84 \newcommand\thecourse{\hsr@course}
85
86 \newcommand\module[1]{\gdef\hsr@module{#1}}
87 \newcommand\hsr@module{\ClassError{hsrzf}{no \noexpand\module given}{}}
88 \newcommand\themodule{\hsr@module}
89
90 \newcommand\semester[1]{\gdef\hsr@semester{#1}}
91 \newcommand\hsr@semester{\ClassError{hsrzf}{no \noexpand\semester given}{}}
92 \newcommand\thesemester{\hsr@semester}
93
94 %% Optional fields
95 \newcommand\institute[1]{\gdef\hsr@institute{#1}}
96 \newcommand\hsr@institute{\ClassWarning{hsrzf}{no \noexpand\institute given}{}}
97 \newcommand\theinstitute{\hsr@institute}
98
99 \newcommand\authoremail[1]{\gdef\hsr@authoremail{#1}}
100 \newcommand\hsr@authoremail{\ClassWarning{hsrzf}{no \noexpand\authoremail given}{}}
101 \newcommand\theauthoremail{\hsr@authoremail}
102
103 \newcommand\maintainer[1]{\gdef\hsr@maintainer{#1}}
104 \newcommand\hsr@maintainer{\ClassWarning{hsrzf}{no \noexpand\maintainer given}{}}
105 \newcommand\themaintainer{\hsr@maintainer}
106
107 \newcommand\contributors[1]{\gdef\hsr@contributors{#1}}
108 \newcommand\hsr@contributors{\ClassWarning{hsrzf}{no \noexpand\contributors given}{}}
109 \newcommand\thecontributors{\hsr@contributors}
110 </hsrzf | hsrbericht>
111 <*hsrbericht>
112 %% The report class has some extra metadata
113
114 %% Extra title informations
115 \newcommand\subtitle[1]{\gdef\hsr@subtitle{#1}}
116 \newcommand\hsr@subtitle{\ClassError{hsrbericht}{no \noexpand\subtitle given}{}}
117 \newcommand\thesubtitle{\hsr@subtitle}
118
119 %% Project informations
120 \newcommand\category[1]{\gdef\hsr@category{#1}}
121 \newcommand\hsr@category{\ClassWarning{hsrbericht}{no \noexpand\category given}{}}
122 \newcommand\thecategory{\hsr@category}
123
124 \newcommand\project[1]{\gdef\hsr@project{#1}}
125 \newcommand\hsr@project{\ClassError{hsrbericht}{no \noexpand\project given}{}}
126 \newcommand\theproject{\hsr@project}
127
128 \newcommand\topic[1]{\gdef\hsr@topic{#1}}
129 \newcommand\hsr@topic{\ClassError{hsrbericht}{no \noexpand\topic given}{}}
130 \newcommand\thetopic{\hsr@topic}
131
132 \newcommand\version[1]{\gdef\hsr@version{#1}}
133 \newcommand\hsr@version{\ClassError{hsrbericht}{no \noexpand\version given}{}}
134 \newcommand\theversion{\hsr@version}
135
136 \newcommand\instructor[1]{\gdef\hsr@instructor{#1}}
137 \newcommand\hsr@instructor{\ClassError{hsrbericht}{no \noexpand\instructor given}{}}

```

```

138 \newcommand\theinstructor{\hsr@instructor}
139
140 \newcommand\startdate[1]{\gdef\hsr@startdate{#1}}
141 \newcommand\hsr@startdate{\ClassError{hsrbericht}{no \noexpand\startdate given}{}}
142 \newcommand\thestartdate{\hsr@startdate}
143
144 \newcommand\finishdate[1]{\gdef\hsr@finishdate{#1}}
145 \newcommand\hsr@finishdate{\ClassError{hsrbericht}{no \noexpand\finishdate given}{}}
146 \newcommand\thefinishdate{\hsr@finishdate}
147
148 %% Author informations
149 \newcommand\address[1]{\gdef\hsr@address{#1}}
150 \newcommand\hsr@address{\ClassWarning{hsrbericht}{no \noexpand\address given}{}}
151 \newcommand\theaddress{\hsr@address}
152
153 \newcommand\matriculationnr[1]{\gdef\hsr@matriculationnr{#1}}
154 \newcommand\hsr@matriculationnr{\ClassError{hsrbericht}{no \noexpand\matriculationnr given}{}}
155 \newcommand\thematriculationnr{\hsr@matriculationnr}
156
157 %% Logos informations
158 \newcommand\logo[1]{\gdef\hsr@logo{#1}}
159 \newcommand\hsr@logo{\ClassWarning{hsrbericht}{no \noexpand\logo given}{}}
160 \newcommand\thelogo{\hsr@logo}
161
162 \newcommand\clientlogo[1]{\gdef\hsr@clientlogo{#1}}
163 \newcommand\hsr@clientlogo{\ClassWarning{hsrbericht}{no \noexpand\clientlogo given}{}}
164 \newcommand\theclientlogo{\hsr@clientlogo}
165 </hsrbericht>
166 <*hsrzf | hsrbericht>
167
168 %^A%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
169 %^A Setup base class
170 \LoadClass[a4paper]{article}
171
172 %% Style deps
173 \RequirePackage{geometry}
174 \RequirePackage{fancyhdr}
175 \RequirePackage{titling}
176 \RequirePackage{totpages}
177 \RequirePackage{array}
178
179 %% Insert metadata in the pdf
180 \PassOptionsToPackage{plainpages=false, pdfpagelabels, pdfusetitle}{hyperref}
181 \RequirePackage{hyperref}
182
183 %^A%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
184 %^A Setup Style
185 %
186
187
188 %% Configure Sans-Serif font
189 \ifhsr@sans
190   \ifhsr@slab
191     \PackageError{hsrzf}{%
192       sans ans slab options cannot be used at the same time
193     }
194   \fi
195   \ifhsr@concrete{hsrzf}{%

```

```

196     sans and concrete options cannot be used at the same time
197 }
198 \fi
199
200 \PassOptionsToPackage{T1}{fontenc}
201 \RequirePackage{fontenc}
202 \RequirePackage{cmbright}
203 \RequirePackage{sfbmath}
204 \fi
205
206 %% Configure Slab-Serif font
207 \ifhsr@slab
208   \ifhsr@sans
209     \PackageError{hsrzf}{%
210       slab and sans options cannot be used at the same time
211     }
212   \fi
213   \ifhsr@concrete{hsrzf}{%
214     slab and concrete options cannot be used at the same time
215   }
216   \fi
217
218   \PassOptionsToPackage{T1}{fontenc}
219   \RequirePackage{fontenc}
220   \PassOptionsToPackage{rm,light}{roboto}
221   \RequirePackage{roboto}
222 \fi
223
224 %% Configure (secret) concrete font
225 \ifhsr@concrete
226   \ifhsr@sans{hsrzf}{%
227     concrete and sans options cannot be used at the same time
228   }
229   \fi
230   \ifhsr@slab
231     \PackageError{hsrzf}{%
232       concrete and slab options cannot be used at the same time
233     }
234   \fi
235
236   \PassOptionsToPackage{boldsans,amssymb}{concmath}
237   \RequirePackage{concmath}
238   \PassOptionsToPackage{T1}{fontenc}
239   \RequirePackage{fontenc}
240 \fi
241
242 %% configure geometry
243 %% defaults to big
244 \newlength{\hsr@hmarginwidth}
245 \newlength{\hsr@vmarginheight}
246
247 \ifx\hsr@margin\@empty
248   \setlength\hsr@hmarginwidth{30mm}
249   \setlength\hsr@vmarginheight{30mm}
250 \else
251   \expandafter\ifstrequal\expandafter{\hsr@margin}{huge}{
252     \setlength\hsr@hmarginwidth{45mm}
253     \setlength\hsr@vmarginheight{40mm}}{

```

```

254 %%
255 \expandafter\ifstrequal\expandafter{\hsr@margin}{large}{
256   \setlength\hsr@hmarginwidth{35mm}
257   \setlength\hsr@vmarginheight{35mm}}{}
258 %%
259 \expandafter\ifstrequal\expandafter{\hsr@margin}{big}{
260   \setlength\hsr@hmarginwidth{30mm}
261   \setlength\hsr@vmarginheight{30mm}}{}
262 %%
263 \expandafter\ifstrequal\expandafter{\hsr@margin}{normal}{
264   \setlength\hsr@hmarginwidth{25mm}
265   \setlength\hsr@vmarginheight{30mm}}{}
266 %%
267 \expandafter\ifstrequal\expandafter{\hsr@margin}{small}{
268   \setlength\hsr@hmarginwidth{20mm}
269   \setlength\hsr@vmarginheight{20mm}}{}
270 %%
271 \expandafter\ifstrequal\expandafter{\hsr@margin}{tiny}{
272   \setlength\hsr@hmarginwidth{10mm}
273   \setlength\hsr@vmarginheight{20mm}}{}
274 %%
275 \expandafter\ifstrequal\expandafter{\hsr@margin}{minimal}{
276   \setlength\hsr@hmarginwidth{ 5mm}
277   \setlength\hsr@vmarginheight{20mm}}{}
278 %%
279 % TODO: fix this
280 % \ClassError{hsrzf}{Invalid margin size}
281 % \setlength\hsr@hmarginwidth{30mm}
282 % \setlength\hsr@vmarginheight{30mm}
283 \fi
284
285 </hsrzf | hsrbericht>
286
287 %^A%  

288 %^A HSR ZF specific
289 <*hsrzf>
290 %% TODO: change vmarginheight if header is on
291 \newgeometry{
292   hmargin=\hsr@hmarginwidth,
293   vmargin=\hsr@vmarginheight,
294   marginparsep=0pt,
295   marginpar=0pt,
296 }
297
298 \fancypagestyle{hsrzf}{%
299   \fancyhf{} % clear
300   \fancyhead[L]{\leftmark}
301   \fancyhead[C]{\themodule}
302   \fancyhead[R]{\@date}
303
304   \fancyfoot[L]{\href{https://github.com/HSR-Stud/}{\texttt{HSR-Stud}}}
305   \fancyfoot[C]{\texttt{CC BY-NC-SA}}
306   \fancyfoot[R]{\thepage ~ / \pageref{TotPages}}
307
308   \renewcommand{\headrulewidth}{.5pt}
309   \renewcommand{\footrulewidth}{.5pt}
310 }
311

```

```

312 \fancypagestyle{hsrzf-norulers}{%
313     \fancyhf{} % clear
314     \fancyhead[L]{\leftmark}
315     \fancyhead[C]{\themodule}
316     \fancyhead[R]{\@date}
317
318     \fancyfoot[L]{\href{https://github.com/HSR-Stud/}{\texttt{HSR-Stud}}}
319     \fancyfoot[C]{\texttt{CC BY-NC-SA}}
320     \fancyfoot[R]{\thepage ~/ \pageref{TotPages}}
321
322     \renewcommand{\headrulewidth}{0pt}
323     \renewcommand{\footrulewidth}{0pt}
324 }
325
326 \ifhsr@header
327 \pagestyle{hsrzf}
328 \fi
329 </hsrzf>
330
331 %^A%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
332 %^A HSR Bericht specific
333 <*hsrbericht>
334
335 %% Redefine title and abstract
336 \renewcommand\maketitle{%
337 \begin{titlepage}
338     \thispagestyle{hsrbericht}
339     \begin{center}
340         \vspace*{6cm}
341         \textbf{\fontsize{48}{60}\selectfont \@title}
342         \vspace{1.5cm} \\\
343         \textbf{\fontsize{24}{48}\selectfont \hsr@subtitle}
344         \vspace{1cm} \\\
345         \textbf{\fontsize{22}{48}\selectfont \hsr@category}
346         \vspace{0.5cm} \\\
347         \begin{tabular}{rl}
348             \textbf{Version:} & \hsr@version \\\
349         \end{tabular}
350         \vspace{4cm} \\\
351         \begin{tabular}{rl p{1.5cm} rl}
352             \textbf{Autor:} & \textbf{\@author} & & \hsr@instructor \\\
353             E-Mail: & \texttt{\hsr@authoremail} & & Themengebiet: & \hsr@topic \\\
354             Matrikelnummer: & \hsr@matriculationnr & & Studiengang: & \hsr@course \\\
355             Adresse: & \hsr@address & & & \\\
356         \end{tabular}{}
357         \vspace{2cm} \\\
358         \begin{tabular}{rl}
359             \textbf{Erstellt am:} & \hsr@startdate \\\
360             \textbf{Letzte Änderung am:} & \hsr@finishdate \\\
361         \end{tabular}
362     \end{center}
363 \end{titlepage}}
364
365 \renewenvironment{abstract}{%
366     \section*{Abstract}%
367     \newcommand\problem{\paragraph{Problem}}
368     \newcommand\goal{\paragraph{Ziel}}
369     \newcommand\method{\paragraph{Method / Vorgehen}}

```

```

370 \newcommand\results{\paragraph{Wesentliche Ergebnisse}}
371 \newcommand\suggestions{\paragraph{Empfehlungen}}
372 \newcommand\keywords{\paragraph{Schlüsselwörter}}
373 }{}
374
375 %% TODO: twoside / book support
376 %% Debug:
377 %% \RequirePackage{showframe}
378
379 \newgeometry{
380   hmargin=\hsr@hmarginwidth,
381   vmargin=\hsr@vmarginheight,
382   marginparsep=0pt,
383   marginpar=0pt,
384 }
385
386 %% Configure headers
387 \fancypagestyle{hsrbericht}{%
388   \fancyhf{} % clear
389   \fancyhead[C]{\@title}
390   \fancyhead[R]{\hsr@clientlogo}
391   \fancyhead[L]{\hsr@logo}
392   \fancyfoot[R]{\thepage / \pageref{TotPages} }
393   \fancyfoot[L]{Dokument: \jobname \\\ Druck: \finishdate}
394   \renewcommand{\headrulewidth}{.5pt}
395   \renewcommand{\footrulewidth}{.5pt}
396 }
397
398 \fancypagestyle{plain}{%
399   \fancyhf{} % clear
400   \fancyhead[C]{\@title}
401   \fancyhead[R]{\hsr@clientlogo}
402   \fancyhead[L]{\hsr@logo}
403   \fancyfoot[R]{\thepage / \pageref{TotPages} }
404   \fancyfoot[L]{Dokument: \jobname \\\ Druck: \finishdate}
405   \renewcommand{\headrulewidth}{.5pt}
406   \renewcommand{\footrulewidth}{.5pt}
407 }
408
409 \pagestyle{hsrbericht}
410
411 </hsrbericht>

```