

HSR–Stud Document Classes

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August 4, 2021

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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

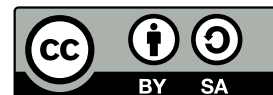
```

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 \[
24   i\hbar \partial_t \psi(t) \right\rangle
25   = \hat{H} \psi(t) \right\rangle
26 \]
27
28 \end{document}

```

7 License

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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.

4

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

```

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{sfmath}
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 \end{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{\hsr@author} & \hsr@Dozent: & \hsr@instructor \\\
353 E-Mail: & \hsr@authoremail & \hsr@Themengebiet: & \hsr@topic \\\
354 Matrikelnummer: & \hsr@matriculationnr & \hsr@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]{Dockument: \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]{Dockument: \jobname \\ Druck: \finishdate}
405     \renewcommand{\headrulewidth}{.5pt}
406     \renewcommand{\footrulewidth}{.5pt}
407 }
408
409 \pagestyle{hsrbericht}
410
411 </hsrbericht>

```