HSR-Stud Document Classes

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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	Н	V	Size	Н	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 throug the following commands: \theauthor, \thedate, \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, \themodule, 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 You 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

```
\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 %
14 %
15 %
     \title{\texttt{\themodule} Zusammenfassung}
16 %
     \date{\thesemester}
17 %
18 %
     % document
19 %
     \begin{document}
20 %
     \maketitle
21 %
     \tableofcontents
22 %
     \section{Introduction}
23 %
      i\hbar \partial_t \left| \psi(t) \right\rangle
24 %
         = \hat{H} \left| \psi(t) \right\rangle
25 %
26 %
     \]
27 %
28 %
     \end{document}
```

7 License

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8 Implementation

```
2 %^^A Class Headers
4 \langle *hsrzf \rangle
5 \NeedsTeXFormat{LaTeX2e}
6 \ProvidesClass{hsrzf}[2020/04/05 v0.1 HSRStud Summary class]
7 \langle /\mathsf{hsrzf} \rangle
9 (*hsrbericht)
10 \NeedsTeXFormat{LaTeX2e}
11 \ProvidesClass{hsrbericht}[2020/05/05 v0.1 HSRStud Report class]
12 \langle / \mathsf{hsrbericht} \rangle
15 \%^{\Lambda} Implementation
17 (*hsrzf | hsrbericht)
19 %% Coding Packages (Dependencies)
20 \RequirePackage{iftex}
21 \RequirePackage{kvoptions}
```

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

```
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}
90 \newcommand\semester[1]{\gdef\hsr@semester{#1}}
91 \newcommand\hsr@semester{\ClassError{hsrzf}{no \noexpand\semester given}{}}
92 \newcommand\thesemester{\hsr@semester}
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}
99 \newcommand\authoremail[1]{\gdef\hsr@authoremail{#1}}
100 \newcommand\hsr@authoremail{\ClassWarning{hsrzf}{no \noexpand\authoremail given}{}}
101 \newcommand\theauthoremail{\hsr@authoremail}
103 \newcommand\maintainer[1] {\gdef\hsr@maintainer{#1}}
104 \newcommand\hsr@maintainer{\ClassWarning{hsrzf}{no \noexpand\maintainer given}{}}
105 \newcommand\themaintainer{\hsr@maintainer}
107 \newcommand\contributors[1] {\gdef \hsr@contributors{#1}}
108 \end{\contributors} \label{lossWarninghsrzf} \end{\contributors given} \end{\contributors} 
109 \newcommand\thecontributors{\hsr@contributors}
110 (/hsrzf | hsrbericht)
111 (*hsrbericht)
112 %% The report class has some extra metadata
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}
124 \newcommand\project[1] {\gdef\hsr@project{#1}}
125 \ensuremath{\mbox{\tt Noewcommand\hsr@project{\tt ClassError{hsrbericht}{\tt no \noexpand\project given}{\tt fill}}
126 \newcommand\theproject{\hsr@project}
128 \newcommand\topic[1] {\gdef\hsr@topic{#1}}
130 \newcommand\thetopic{\hsr@topic}
132 \newcommand\version[1] {\gdef\hsr@version{#1}}
133 \newcommand\hsr@version{\ClassError{hsrbericht}{no \noexpand\version given}{}}
134 \newcommand\theversion{\hsr@version}
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 \ensuremath{ \mbox{\mbox{$1$}}} 144 \ensuremath{ \mbox{\mbox{$1$}}} 180 \ensuremath{ \mbox{$1$}} 
145 \newcommand\hsr@finishdate{\ClassError{hsrbericht}{no \noexpand\finishdate given}{}}
146 \newcommand\thefinishdate{\hsr@finishdate}
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}
153 \newcommand\matriculationnr[1] {\gdef\hsr@matriculationnr{#1}}
154 \newcommand\hsr@matriculationnr{\ClassError{hsrbericht}{no \noexpand\matriculationnr given}{}}
155 \newcommand\thematriculationnr{\hsr@matriculationnr}
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}
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)
169 %^^A Setup base class
170 \LoadClass[a4paper]{article}
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}
184 %^^A Setup Style
185 %
186
187
188 %% Configure Sans-Serif font
189 \ifhsr@sans
        \ifhsr@slab
190
              \PackageError{hsrzf}{%
191
                  sans ans slab options cannot be used at the same time
192
             }
193
194 \fi
```

195 \ifhsr@concrete{hsrzf}{%

```
sans and concrete options cannot be used at the same time
196
     }
197
198
     \fi
199
     \PassOptionsToPackage{T1}{fontenc}
200
     \RequirePackage{fontenc}
201
     \RequirePackage{cmbright}
202
     \RequirePackage{sfmath}
203
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
     \ifhsr@concrete{hsrzf}{%
213
      slab and concrete options cannot be used at the same time
214
215
216
     \fi
217
218
     \PassOptionsToPackage{T1}{fontenc}
219
     \RequirePackage{fontenc}
220
     \PassOptionsToPackage{rm,light}{roboto}
     \RequirePackage{roboto}
221
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 ans slab options cannot be used at the same time
       }
233
     \fi
234
235
     \PassOptionsToPackage{boldsans,amssymb}{concmath}
236
     \RequirePackage{concmath}
237
     \PassOptionsToPackage{T1}{fontenc}
238
239
     \RequirePackage{fontenc}
240 \fi
241
242 %% configure geometry
243 %% defaults to big
244 \newlength{\hsr@hmarginwidth}
245 \verb|\newlength{\hsr@vmarginheight}|
246
247 \ifx\hsr@margin\@empty
     \verb|\setlength| hsr@hmarginwidth{30mm}|
     \setlength\hsr@vmarginheight{30mm}
250 \else
     \expandafter\ifstrequal\expandafter{\hsr@margin}{huge}{
251
252
       \setlength\hsr@hmarginwidth{45mm}
       \setlength\hsr@vmarginheight{40mm}}{}
253
```

```
254 %%
255
     \expandafter\ifstrequal\expandafter{\hsr@margin}{large}{
256
       \setlength\hsr@hmarginwidth{35mm}
       \setlength\hsr@vmarginheight{35mm}}{}
257
258 %%
     \expandafter\ifstrequal\expandafter{\hsr@margin}{big}{
259
       \setlength\hsr@hmarginwidth{30mm}
260
261
       \setlength\hsr@vmarginheight{30mm}}{}
262 %%
     \expandafter\ifstrequal\expandafter{\hsr@margin}{normal}{
263
       \setlength\hsr@hmarginwidth{25mm}
264
       \setlength\hsr@vmarginheight{30mm}}{}
265
266 %%
     \verb|\expandafter\ifstrequal| expandafter{\hsr@margin}{small}{}
267
268
       \setlength\hsr@hmarginwidth{20mm}
       \setlength\hsr@vmarginheight{20mm}}{}
269
270 %%
     \expandafter\ifstrequal\expandafter{\hsr@margin}{tiny}{
271
       \setlength\hsr@hmarginwidth{10mm}
272
       \setlength\hsr@vmarginheight{20mm}}{}
273
274 %%
275
     \expandafter\ifstrequal\expandafter{\hsr@margin}{minimal}{
276
       \setlength\hsr@hmarginwidth{ 5mm}
277
       \setlength\hsr@vmarginheight{20mm}}{}
278 %%
    % TODO: fix this
279
    % \ClassError{hsrzf}{Invalid margin size}
280
281 % \setlength\hsr@hmarginwidth{30mm}
282 % \setlength\hsr@vmarginheight{30mm}
283 \fi
284
285 (/hsrzf | hsrbericht)
288 %^^A HSR ZF specific
289 (*hsrzf)
290 %% TODO: change vmarginheight if header is on
291 \newgeometry{
       hmargin=\hsr@hmarginwidth,
292
       vmargin=\hsr@vmarginheight,
293
       marginparsep=0pt,
294
295
       marginpar=0pt,
296 }
297
298 \fancypagestyle{hsrzf}{%
299
       \fancyhf{} % clear
       \fancyhead[L]{\leftmark}
300
       \fancyhead[C]{\themodule}
301
       \fancyhead[R]{\Qdate}
302
303
       \fancyfoot[L]{\href{https://github.com/HSR-Stud/}{\texttt{HSR-Stud}}}
304
       \fancyfoot[C]{\texttt{CC BY-NC-SA}}
305
306
       \fancyfoot[R]{\thepage ~/ \pageref{TotPages}}
307
       \renewcommand{\headrulewidth}{.5pt}
308
309
       \renewcommand{\footrulewidth}{.5pt}
310 }
311
```

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

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