

# The fhnwfactsheet Class\*

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<https://github.com/alpenwasser/fhnwfactsheet/>

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## Abstract

The `fhnwfactsheet` class offers a simple interface for composing a fact sheet for projects in A4 paper size for the Degree Program *Electrical and Information Technology* at the School of Engineering of the University of Applied Sciences and Arts Northwestern Switzerland.

This document contains the documentation for user interface and describes the implementation for any developer who intends to modify the class.

## Contents

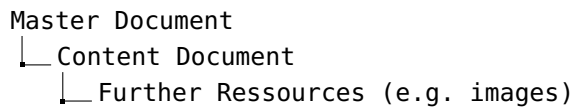
<b>1</b>	<b>Basic Concept</b>	<b>1</b>
1.1	Master Document . . . . .	2
1.2	Content Document . . . . .	2
<b>2</b>	<b>Installation</b>	<b>2</b>
<b>3</b>	<b>Class Options</b>	<b>3</b>
<b>4</b>	<b>Commands</b>	<b>3</b>
4.1	Language-Specific Macros . . . . .	3
4.2	Content Generation . . . . .	4
<b>5</b>	<b>Examples</b>	<b>6</b>
<b>6</b>	<b>Style Guidelines</b>	<b>6</b>
<b>7</b>	<b>Implementation</b>	<b>6</b>

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\*This document corresponds to `fhnwfactsheet` v0.9.0, dated 2017/05/28.

# 1 Basic Concept

The class allows to build individual standalone fact sheets as well as a larger document containing multiple factsheets as a collection, including a title page, a table of contents etc. The underlying structure in both scenarios is identical:



*Note:*

- `fhnwfactsheet` does not enforce any specific file name specification. Follow your teacher's instructions if you are creating a fact sheet for submission to the school.
- Do not load additional packages! This will mess up the process of merging your standalone fact sheet with others. `fhnwfactsheet` loads most classes one would reasonably need to create a fact sheet. If there really is a package which you absolutely, positively need, contact the package maintainer and he will see if it can be integrated into the class. This will then allow to push the class to everyone through an update and things should (hopefully) not break.

## 1.1 Master Document

The master document is the document on which you run `pdflatex`. It sets up the class and its configuration and then loads the **Content Document**. If you are working on a standalone fact sheet, this file will be very minimal:

```
\documentclass[german]{fhnwfactsheet}
\begin{document}
\includefactsheet{contentDocument.tex}
\end{document}
```

Multiple **Content Documents** can be included if you wish to create a collection of fact sheets. Each fact sheet will be put on a single page. This also enables the creation of a table of contents.

```
\documentclass[german]{fhnwfactsheet}
\begin{document}
\pagenumbering{roman}
\tableofcontents

\newpage\pagenumbering{arabic}

\includefactsheet{factsheet1Content.tex}
\includefactsheet{factsheet2Content.tex}
\includefactsheet{factsheet3Content.tex}
```

```
\includefactsheet{factsheet4Content.tex}
\end{document}
```

## 1.2 Content Document

The content document is where the content of your fact sheet actually resides. It offers some specific commands to enable consistent layout and typography and places some restrictions which should prevent things from getting too extravagant. See the `examples` directory for some example code.

## 2 Installation

From `fhnwfactsheet.dtx` and `fhnwfactsheet.ins`, generate the class file `fhnwfactsheet.cls` by running

```
pdflatex fhnwfactsheet.ins
```

This will create the class file. If you wish to compile the documentation (this document), run:

```
pdflatex fhnwfactsheet.dtx
```

After that, place `fhnwfactsheet.cls` in your working directory and enable it via the `documentclass` command (see example for master document above).

## 3 Class Options

<code>english</code>	These class options will load the corresponding <code>babel</code> language as well as set some key words accordingly. If you don't specify any language, the class defaults to German.
<code>german</code>	
<code>deutsch</code>	

Examples:

```
\documentclass{fhnwfactsheet}           % German
\documentclass[deutsch]{fhnwfactsheet} % German
\documentclass[german]{fhnwfactsheet}  % German
\documentclass[english]{fhnwfactsheet} % English
```

## 4 Commands

This section describes the commands which are implemented by `fhnwfactsheet`.

## 4.1 Language-Specific Macros

These macros are used to name the people involved in the project as well as their roles. None of these have to be specified, if they did not exist. They will be used when defined, otherwise not.

`\team` Comma-separated list of team members. *Note:* Use **Firstname Last-name** notation to ensure consistency. Example:

```
\team{%  
    Team Leader,  
    Personwho Didallthework,  
    Personwho Wasalsothere,  
    Dudewho Wasnotthere}
```

`\client` The client. The format is identical to the `\team` command.

`\coach` The Project coaches. In case of a single person, use `\coach`, in case of multiple people, use `\coaches`. *Note:* Since these options are mutually exclusive, the class will raise an error if both macros have been specified.

`\expert` Experts, for example in case of a thesis. Same as above, the class will raise an error in case of both singular and plural form being specified.

`\partner` Industry partners, if there were any (and they can be named).

`\partners`

## 4.2 Content Generation

The following macros are used to create the content which goes onto the fact sheet page. The title for the page. This will also be used as the title in the table of contents in case of a collection document (internally it is automatically mapped to a `\chapter`).

```
\title{Grand Title of Significant Magnitude}
```

*Note:* The title will never wrap onto a new line. If it is too long for a single line, it will simply run off the page. This is by design. Shorten your title in that case.

`\fssummary` This is where the introductory header text goes. Ideally, it should not be longer than three or maximum four lines. However, the macro itself does not enforce this. Example<sup>1</sup> Hier kommt der Einleitungstext hinein. Idealerweise sollte die Einleitung nicht länger als drei bis maximal vier Zeilen sein. Das Macro erzwingt diese Länge allerdings nicht. Beispiel

```
\fssummary{%  
    Habe nun, ach! Philosophie,  
    Juristerei und Medizin,  
    Und leider auch Theologie  
    Durchaus studiert, mit heiem Bemh'n.  
    Da steh ich nun, ich armer Tor!
```

---

<sup>1</sup>Goethe's Faust – Nacht; this will result in 3.5 lines.

Und bin so klug als wie zuvor;  
 Heie Magister, heie Doktor gar,  
 Und ziehe schon an die zehen Jahr  
 Herauf, herab und quer und krumm  
 Meine Schler an der Nase herum.}

`\fsgraphics` This command creates a box which is put between `\fssummary` and `\fscontent` with the intent of being filled with graphical content. There are not really any restrictions placed on the graphics, so treat with care. Usually, one would probably want to use `\includegraphics` here.

For including multiple graphics, the use of `minipages` is advised. <sup>2</sup>.

`\graphicscaption` The caption for a picture. Can be used multiple times in case of multiple pictures. Should be kept short.

`\graphicssource` A source for the pictures. Is placed vertically in the right page margin. This, too should be kept short (see example below).

An example for including two images along the horizontal axis:

```
\fsgraphics{%
  \begin{minipage}{0.4\textwidth}
    \includegraphics[height=60mm]{images/bild0.png}
    \graphicscaption{Dies ist ein Bild}
  \end{minipage}%
  \begin{minipage}{0.6\textwidth}
    \includegraphics[height=60mm]{images/bild1.png}
    \graphicscaption{Dies ist ein anderes Bild}
  \end{minipage}
  \graphicssource{Wikipedia}}
```

`\fscontent` The main content of your document, split into three columns. Partition via the `\section` command as usual (there are no `subsections` or even `subsubsections` available).

You can also include graphics here, should you feel so inclined (see the separate *Sonart* example fact sheet). Example:

```
\section{Faust -- Nacht}
\label{sec:faust-night}
Und sehe, da wir nichts wissen knnen!
Das will mir schier das Herz verbrennen.
Zwar bin ich gescheiter als all die Laffen,
Doktoren, Magister, Schreiber und Pfaffen;
Mich plagen keine Skrupel noch Zweifel,
Frchte mich weder vor Hlle noch Teufel -
Dafr ist mir auch alle Freud entrissen,
Bilde mir nicht ein, was Recht's zu wissen,
Bilde mir nicht ein, ich knnte was lehren,
Die Menschen zu bessern und zu bekehren.
```

---

<sup>2</sup>More about minipages and their sometimes surprising behavior:  
<https://github.com/alpenwasser/TeX/tree/master/minipages>

```
\section{Faust -- Mehr Nacht}
\label{sec:faust-more-night}
Auch hab ich weder Gut noch Geld,
Noch Ehr und Herrlichkeit der Welt;
Es mchte kein Hund so lnger leben!
Drum hab ich mich der Magie ergeben,
Ob mir durch Geistes Kraft und Mund
Nicht manch Geheimnis wrde kund;
Da ich nicht mehr mit saurem Schwei
Zu sagen brauche, was ich nicht wei;
Da ich erkenne, was die Welt
Im Innersten zusammenhlt,
Schau alle Wirkenskraft und Samen,
Und tu nicht mehr in Worten kramen.
```

`\infobox` A box which gets placed on the left side at the page bottom. Can fundamentally contain pretty much any content you like. Well-suited for highlighting key points or specifications about the project. Example:

```
\infobox{Highlights}{%
  \footnotesize
  \setlength\tabcolsep{2pt} % make table a bit more compact horizontally
  \begin{tabular}{ll}
    Category 1 & Property A \\
                & Property B \\
                & Property C \\
                & Property D \\
    Category 2 & Property E \\
                & Property F \\
                & Property G \\
                & Property H \\
  \end{tabular}}
```

`\includefactsheet` Loads a Content Document in a Master Document (see [Section 1](#)).

## 5 Examples

The `examples` directory contains a few examples.

## 6 Style Guidelines

TODO

## 7 Implementation

If you are merely intending to use this class, you probably do not need to read this.

```

1 \newif\if@english
2 \newif\if@german
3 \DeclareOption{english}{\@englishttrue\@germanfalse}
4 \DeclareOption{german}{\@germantrue\@englishfalse}
5 \DeclareOption{deutsch}{\@germantrue\@englishfalse}
6 \ExecuteOptions{english,german,deutsch}
7 \ProcessOptions
8
9 % Packages
10 \LoadClass{report}
11 \RequirePackage[utf8]{inputenc}
12 \RequirePackage[T1]{fontenc}
13 \RequirePackage{graphicx}
14 \RequirePackage{tikz}
15 \RequirePackage{rviewport}
16 \RequirePackage{multicol}
17 \RequirePackage[inline]{enumitem}
18 \RequirePackage{geometry}
19 \RequirePackage[scaled=0.95]{helvet}
20 \renewcommand\familydefault{\sfdefault}
21 \RequirePackage{xcolor}
22 \RequirePackage{rotating}
23 % Define document colos palette
24 \definecolor{parties}{HTML}{666666}
25 \definecolor{title}{HTML}{000066}
26 \definecolor{summary}{HTML}{666666}
27 \colorlet{boxbg}{cyan!50!blue!20!white}
28 \RequirePackage{tcolorbox}
29 \RequirePackage{booktabs}
30 \RequirePackage[binary-units=true]{siunitx}
31 \sisetup{range-phrase=-}
32 \RequirePackage[%
33     hidelinks=true,
34     bookmarksnumbered=true]{hyperref}
35 \if@english
36     \RequirePackage[english]{babel}
37 \fi
38 \if@german
39     \RequirePackage[ngerman]{babel}
40 \fi
41
42 % Page Geometry
43 \geometry{a4paper,twoside=false}
44 \newlength{\factpageouter}
45 \newlength{\factpageinner}
46 \newlength{\factpagetop}
47 \newlength{\factpagebottom}
48 \newlength{\factpagewidth}
49 \newlength{\factgraphicswidth}

```

```

50 \newlength{\testl}
51 \setlength{\factpageouter}{25mm}
52 \setlength{\factpageinner}{25mm}
53 \setlength{\factpagetop}{8mm}

```

Needed so that page numbers do not slide down too far.

```

54 \setlength{\factpagebottom}{30mm}

```

Rest of page geometry layout:

```

55 \setlength{\factpagewidth}{\paperwidth}
56 \addtolength{\factpagewidth}{-\factpageinner}
57 \addtolength{\factpagewidth}{-\factpageouter}
58 \setlength{\factgraphicswidth}{50mm}
59 \geometry{outer=\factpageouter,inner=\factpageinner,%
60           top=\factpagetop,    bottom=\factpagebottom}
61
62 \let\newcol\newpage

```

We put the entire page inside a minipage environment to make it not take up more space than a single page. We also set the height of that minipage to zero so that it stays on the first page no matter how much content is put inside it.

```

63 \newenvironment{factpage}
64   {\noindent\begin{minipage}[t][0pt]{\factpagewidth}}
65   {\end{minipage}}

```

Redefine Section Headings to not be numbered by default. This is done by adding a \* after its sixth argument. The rest of the command is similar to what can be found in The LaTeX article.cls file.

```

66 \renewcommand\section{\@startsection {section}{1}{\z@}%
67                                     {-2.5ex \@plus -1ex \@minus -.2ex}%
68                                     {1ex}%
69                                     {%1ex \@plus.2ex}% default
70                                     {\large\bfseries\color{title}}*}

```

Having subsections or even lower-tiered headings in a document such as this one would be ridiculous. Remove them to make sure they are not used.

```

71 \let\subsection\@undefined
72 \let\subsubsection\@undefined
73 \let\paragraph\@undefined
74 \let\subparagraph\@undefined

```

Define language-specific terms.

```

75 \iflanguage{english}{%
76   \newcommand*{\lang@team}    {\textbf{Project Team: }}
77   \newcommand*{\lang@client}  {\textbf{Client: }}
78   \newcommand*{\lang@coach}   {\textbf{Coach: }}
79   \newcommand*{\lang@coaches} {\textbf{Coaches: }}
80   \newcommand*{\lang@expert}  {\textbf{Expert: }}
81   \newcommand*{\lang@experts} {\textbf{Experts: }}

```



```

82 \newcommand*{\lang@partner} {\textbf{Industry Partner: }}
83 \newcommand*{\lang@partners} {\textbf{Industry Partners: }}
84 \newcommand*{\lang@source} {\textit{Source: }}
85 {}
86 \iflanguage{ngerman}{%
87 \newcommand*{\lang@team} {\textbf{Arbeitsgruppe: }}
88 \newcommand*{\lang@client} {\textbf{Auftraggeber: }}
89 \newcommand*{\lang@coach} {\textbf{Betreuer: }}
90 \newcommand*{\lang@coaches} {\textbf{Betreuer: }}
91 \newcommand*{\lang@expert} {\textbf{Experte: }}
92 \newcommand*{\lang@experts} {\textbf{Experten: }}
93 \newcommand*{\lang@partner} {\textbf{Industriepartner: }}
94 \newcommand*{\lang@partners} {\textbf{Industriepartner: }}
95 \newcommand*{\lang@source} {\textit{Quelle: }}
96 {}

```

Save those terms in the appropriate macros.

```

97 \newcommand*{\team}[1]
98 {\gdef\@team {\footnotesize\color{parties}\lang@team#1}}
99 \newcommand*{\client}[1]
100 {\gdef\@client {\footnotesize\color{parties}\lang@client#1}}
101 \newcommand*{\coach}[1]
102 {\gdef\@coach {\footnotesize\color{parties}\lang@coach#1}}
103 \newcommand*{\coaches}[1]
104 {\gdef\@coaches {\footnotesize\color{parties}\lang@coaches#1}}
105 \newcommand*{\expert}[1]
106 {\gdef\@expert {\footnotesize\color{parties}\lang@expert#1}}
107 \newcommand*{\experts}[1]
108 {\gdef\@experts {\footnotesize\color{parties}\lang@experts#1}}
109 \newcommand*{\partner}[1]
110 {\gdef\@partner {\footnotesize\color{parties}\lang@partner#1}}
111 \newcommand*{\partners}[1]
112 {\gdef\@partners {\footnotesize\color{parties}\lang@partners#1}}

```

Redefine maketitle to do our bidding:

```

113 \renewcommand\maketitle{\par
114 \begingroup
115 {\Huge\color{title}\@title}\par
116 \vspace{2em}
117 \global\let\maketitle\relax
118 \global\let\@maketitle\relax
119 \global\let\title\relax
120 \global\let\date\relax
121 \global\let\@title\@empty
122 \global\let\@date\@empty
123 \endgroup
124 }

```

For testing purposes:

```

125 \newlength{\placeholderbase}
126 \newcommand\placeholderpics{%

```

```

127 \setlength{\placeholderbase}{48mm}
128 \begin{tikzpicture}[x=\placeholderbase,y=\placeholderbase,draw=black!50!white,very t
129 \draw (0,0) -- (1.618,1);
130 \draw (0,1) -- (1.618,0);
131 \draw (0,0) -- (1.618,0) -- (1.618,1) -- (0,1) -- cycle;
132 \node[draw,fill=white] at (0.809,0.5) {\large Beautiful Pic-
ture!};
133 \end{tikzpicture}
134 \begin{tikzpicture}[x=\placeholderbase,y=\placeholderbase,draw=black!50!white,very t
135 \draw (0,0) -- (1.618,1);
136 \draw (0,1) -- (1.618,0);
137 \draw (0,0) -- (1.618,0) -- (1.618,1) -- (0,1) -- cycle;
138 \node[draw,fill=white] at (0.809,0.5) {\large Amazing Graph-
ics!};
139 \end{tikzpicture}\par
140 {\footnotesize Beautiful Picture and Amazing Graphics}
141 }

Store the contents of \fscontent in \fs@content
142 \newcommand\fscontent[1]{\gdef\fs@content{#1}}

Print the contents of \fs@content
143 \newcommand\fs@makecontent{\par
144 \vspace{1em}\begin{multicols}{3}
145 \ifdef{\fs@content}{\fs@content}\par
146 \end{multicols}
147 }

Store the contents of \fssummary in \fs@summary
148 \newcommand\fssummary[1]{\gdef\fs@summary{#1}}

Print the contents of \fs@summary
149 \newcommand\fs@makesummary{\par
150 \vspace{0.25em}\noindent\begin{minipage}{\textwidth}\large
151 \ifdef{\fs@summary}{\color{summary}\fs@summary}\par
152 \end{minipage}%
153 }

Store the contents of \fsgraphics in \fs@graphics
154 \newcommand\fsgraphics[1]{\gdef\fs@graphics{#1}}
155 \newcommand\graphicssource[1]{\gdef\fs@graphicssource{#1}}

Put the contents of \graphicscaption inside an \mbox so that it does not
wrap.
156 \newcommand\graphicscaption[1]{\mbox{#1}}

Print the contents of \fs@graphics
157 \newcommand\fs@makegraphics{\par
158 \vspace{1em}\noindent\begin{minipage}[b]{\textwidth}%
159 \footnotesize\raggedright
160 \ifdef{\fs@graphics}{\fs@graphics}\par\par
161 \ifdef{\fs@graphicscaption}{\fs@graphicscaption}\par

```

```

162 \end{minipage}%
163 \begin{minipage}[t]{2ex}\footnotesize\color{parties}
164 \ifdef{\fs@graphicssource}{%
165 \hspace*{2ex}%
166 \turnbox{90}{%
167 \hspace*{2ex} \lang@source \fs@graphicssource}}\par
168 \end{minipage}%
169 }

```

Store the content of \infobox and print it:

```

170 \newcommand\infobox[2]{%
171 \gdef\fs@infoboxtitle{#1}%
172 \gdef\fs@infoboxcontent{\footnotesize #2}%
173 }
174 \newcommand\fs@makeinfobox{
175 \begin{tcolorbox}[
176 title=\fs@infoboxtitle,
177 width=0.66\textwidth,
178 arc=0mm,
179 before=,
180 after=\hfill]
181 \fs@infoboxcontent
182 \end{tcolorbox}
183 }
184 \newcommand\tightlist{%
185 \setlength{\itemsep}{0pt}\setlength{\parskip}{0pt}%
186 }

```

Errors:

```

187 \newcommand\fs@checkinput{%
188 \ifdef{\@coach}{%
189 \ifdef{\@coaches}{%
190 \ClassError{fhnwfactsheet}{Both 'coach' and 'coaches' field de-
191 fined. Undefine one.}
192 {Both the 'coach' and the 'coaches' field are defined. Only one of them
193 }}}%
194 \ifdef{\@expert}{%
195 \ifdef{\@experts}{%
196 \ClassError{fhnwfactsheet}{Both 'expert' and 'experts' field de-
197 fined. Undefine one.}
198 {Both the 'expert' and the 'experts' field are defined. Only one of them
199 }}}%
200 \ifdef{\@partner}{%
201 \ifdef{\@partners}{%
202 \ClassError{fhnwfactsheet}{Both 'partner' and 'partners' field de-
203 fined. Undefine one.}
204 {Both the 'partner' and the 'partners' field are de-
205 fined. Only one of them should be.}

```

```

204     }{}%
205 }{}%
206 \ifdef{\fs@infoboxcontent}{}
207     {%
208         \ClassError{fhnwfactsheet}{Did you forget to specify your in-
fobox?}
209         {The infobox contents are not defined. Make sure your in-
fobox command is properly called.}
210     }%
211 \ifdef{\fs@infoboxtitle}{}
212     {%
213         \ClassError{fhnwfactsheet}{Did you forget to specify your in-
fobox?}
214         {The infobox title is not defined. Make sure your infobox com-
mand is properly called.}
215     }%
216 }

```

Chapter code. Taken mostly from classes.dtx.

```

217 \renewcommand\chapter{%\if@openright\cleardoublepage\else\clearpage\fi
218     \thispagestyle{plain}%
219     \global\@topnum\z@
220     \@afterindentfalse
221     \secdef\@chapter\@schapter}
222 \def\@chapter[#1]#2{\ifnum \c@secnumdepth >\m@ne
223     \refstepcounter{chapter}%
224     \typeout{\@chapapp\space\thechapter.}%
225     \addcontentsline{toc}{chapter}{#1}%
226     %\protect\numberline{\thechapter}#1}%
227     \else
228     \addcontentsline{toc}{chapter}{#1}%
229     \fi
230     \chaptermark{#1}%
231     \addtocontents{lof}{\protect\addvspace{10\p@}}%
232     \addtocontents{lot}{\protect\addvspace{10\p@}}%
233     \if@twocolumn
234     \@topnewpage[\@makechapterhead{#2}]%
235     \else
236     \@makechapterhead{#2}%
237     \@afterheading
238     \fi}
239 \def\@makechapterhead#1{%
240     \begingroup
241     \mbox{\Huge\color{title}#1}\par
242     \vspace{2em}
243     \endgroup
244 }
245 \def\@makeschapterhead#1{%
246     \vspace*{50\p@}%
247     {\parindent \z@ \raggedright

```

```

248 \normalfont
249 \interlinepenalty\@M
250 \Huge\color{title} #1\par\nobreak
251 \vskip 40\p@
252 }}
253 \renewcommand*\l@chapter[2]{%
254 \ifnum \c@tocdepth >\m@ne
255 \addpenalty{-\@highpenalty}%
256 \vskip 1.0em \@plus\p@
257 \setlength\@tempdima{1.5em}%
258 \begingroup
259 \parindent \z@ \rightskip \@pnumwidth
260 \parfillskip -\@pnumwidth
261 \leavevmode
262 \advance\leftskip\@tempdima
263 \hskip -\leftskip
264 %\@dottedtocline{0}{0em}{0em}{#1}{#2}\par
265 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
266 \penalty\@highpenalty
267 \endgroup
268 \fi}

```

Including a fact sheet content file in a master document:

```

269 \newcommand*\includefactsheet[1]{\input{#1}\makefactsheet\newpage}

```

Output routine:

```

270 \newcommand\makefactsheet{
271 \begin{factpage}
272 \fs@checkinput
273 \chapter{\@title}
274 % Must be after \chapter
275 % Note: We do not want to overwrite the \chapter pagestyle{plain} ev-
everywhere.
276 \thispagestyle{empty}
277 \fs@makesummary
278 \vspace{1ex}
279 \fs@makegraphics
280 \vspace{1ex}
281 \fs@makecontent
282 \vspace{1ex}
283 \tcbset{
284 colback=boxbg,
285 colframe=title,
286 boxrule=0.5pt,
287 toptitle=2pt,
288 bottomtitle=1pt,
289 titlerule=0.5pt,
290 }
291 \fs@makeinfobox
292 \begin{minipage}[b]{0.30\textwidth}

```

```

293         \ifdef{\@team}{\@team}{}\par
294         \ifdef{\@client}{\@client}{}\par
295         \ifdef{\@coach}{\@coach}{}\par
296         \ifdef{\@coaches}{\@coaches}{}\par
297         \ifdef{\@expert}{\@expert}{}\par
298         \ifdef{\@experts}{\@experts}{}\par
299         \ifdef{\@partner}{\@partner}{}\par
300         \ifdef{\@partners}{\@partners}{}\par
301     \end{minipage}
302 \end{factpage}\raisebox{6ex}{\hspace{3em}\thepage}
303 % Undefine for next fact sheet
304 \let\fs@graphics\@undefined
305 \let\fs@graphicssource\@undefined
306 \let\fs@graphicscaption\@undefined
307 \let\@team\@undefined
308 \let\@client\@undefined
309 \let\@coach\@undefined
310 \let\@coaches\@undefined
311 \let\@expert\@undefined
312 \let\@experts\@undefined
313 \let\@partner\@undefined
314 \let\@partners\@undefined
315 \let\fs@infoboxtitle\@undefined
316 \let\fs@infoboxcontent\@undefined
317 }

```

## 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			
\@M . . . . .	249	\@englishtrue . . . . .	3
\@afterheading . .	237	\@expert . . . . .	112, 201, 300, 314
\@afterindentfalse		106, 194, 297, 311	\@plus . . . . .
. . . . .	220	\@experts . . . . .	67, 69, 256
\@chapapp . . . . .	224	108, 195, 298, 312	\@pnumwidth . . . . .
\@chapter . . . . .	221, 222	\@germanfalse . . . . .	259, 260, 265
\@client 100, 294, 308		3	\@schapter . . . . .
\@coach . . . . .		\@germantrue . . . . .	221
102, 188, 295, 309		4, 5	\@startsection . . . . .
\@coaches . . . . .		\@highpenalty 255, 266	\@team . . . . .
104, 189, 296, 310		\@makechapterhead .	98, 293, 307
\@date . . . . .	122	. . . . .	\@tempdima . . . . .
\@dottedtocline .	264	234, 236, 239	257, 262
\@empty . . . . .	121, 122	\@makeschapterhead	\@title . . . . .
\@englishfalse . .	4, 5	. . . . .	115, 121, 273
		245	\@topnewpage . . . . .
		\@maketitle . . . . .	234
		118	\@topnum . . . . .
		\@minus . . . . .	219
		67	\@undefined . . . . .
		\@partner . . . . .	. . . . .
		110, 200, 299, 313	71–74, 304–316

<b>A</b>		
\addcontentsline .	\ExecuteOptions ... 6	<b>G</b>
..... 225, 228	\expert ..... 105	\gdef ..... 98,
\addpenalty ..... 255	\experts ..... 107	100, 102, 104,
\addtocontents ...		106, 108, 110,
..... 231, 232	<b>F</b>	112, 142, 148,
\addtolength .. 56, 57	\factgraphicswidth	154, 155, 171, 172
\addvspace .. 231, 232	..... 49, 58	\geometry .... 43, 59
\advance ..... 262	\factpagebottom ..	\global . 117–122, 219
	..... 47, 54, 60	\graphicscaption 156
	\factpageinner ...	\graphicssource . 155
	... 45, 52, 56, 59	
<b>B</b>	\factpageouter ...	<b>H</b>
\begin 64, 128, 134,	... 44, 51, 57, 59	\hbext@ ..... 265
144, 150, 158,	\factpagetop 46, 53, 60	\hfil ..... 265
163, 175, 271, 292	\factpagewidth ...	\hfill ..... 180
\begingroup .....	... 48, 55–57, 64	\hskip ..... 263
... 114, 240, 258	\familydefault ... 20	\hspace . 165, 167, 302
\bfseries ..... 70	\fi ..... 37, 40,	\hss ..... 265
	217, 229, 238, 268	\Huge ... 115, 241, 250
<b>C</b>	\footnotesize ....	
\c@secnumdepth .. 222	.... 98, 100,	<b>I</b>
\c@tocdepth ..... 254	102, 104, 106,	\if@english .... 1, 35
\chapter 217, 273–275	108, 110, 112,	\if@german ..... 2, 38
\chaptermark .... 230	140, 159, 163, 172	\if@openright ... 217
\ClassError .. 190,	\fs@checkinput ...	\if@twocolumn ... 233
196, 202, 208, 213	..... 187, 272	\ifdef .. 145, 151,
\cleardoublepage 217	\fs@content . 142, 145	160, 161, 164,
\clearpage ..... 217	\fs@graphics .....	188, 189, 194,
\client ..... 99	... 154, 160, 304	195, 200, 201,
\coach ..... 101	\fs@graphicscaption	206, 211, 293–300
\coaches ..... 103	..... 161, 306	\iflanguage ... 75, 86
\color ..... 70,	\fs@graphicsource	\ifnum ..... 222, 254
98, 100, 102,	155, 164, 167, 305	\includefactsheet 269
104, 106, 108,	\fs@infoboxcontent	\infobox ..... 170
110, 112, 115,	172, 181, 206, 316	\input ..... 269
151, 163, 241, 250	\fs@infoboxtitle .	\interlinepenalty 249
\colorlet ..... 27	171, 176, 211, 315	\itemsep ..... 185
	\fs@makecontent ..	
<b>D</b>	..... 143, 281	<b>L</b>
\date ..... 120	\fs@makegraphics .	\l@chapter ..... 253
\DeclareOption .. 3–5	..... 157, 279	\lang@client .....
\def .... 222, 239, 245	\fs@makeinfobox ..	..... 77, 88, 100
\definecolor .. 24–26	..... 174, 291	\lang@coach 78, 89, 102
\draw 129–131, 135–137	\fs@makesummary ..	\lang@coaches ....
	..... 149, 277	..... 79, 90, 104
<b>E</b>	\fs@summary . 148, 151	\lang@expert .....
\else ... 217, 227, 235	\fscontent ..... 142	..... 80, 91, 106
\end .. 65, 133, 139,	\fsgraphics ..... 154	\lang@experts ....
146, 152, 162,	\fssummary ..... 148	..... 81, 92, 108
168, 182, 301, 302		
\endgroup 123, 243, 267		

\lang@partner . . . . .	\normalfont . . . . . 248	<b>S</b>
. . . . . 82, 93, 110	\numberline . . . . . 226	\secdef . . . . . 221
\lang@partners . . . . .		\section . . . . . 66
. . . . . 83, 94, 112	<b>P</b>	\setlength . 51–55,
\lang@source . . . . .	\p@ . . . . . 231,	58, 127, 185, 257
. . . . . 84, 95, 167	232, 246, 251, 256	\sfdefault . . . . . 20
\lang@team . . 76, 87, 98	\paperwidth . . . . . 55	\sisetup . . . . . 31
\large 70, 132, 138, 150	\par . . . . . 113,	\space . . . . . 224
\leavevmode . . . . . 261	115, 139, 143,	\subparagraph . . . . 74
\leftskip . . 262, 263	145, 149, 151,	\subsection . . . . . 71
\let . . . . 62, 71–74,	157, 160, 161,	\subsubsection . . . 72
117–122, 304–316	167, 241, 250,	
\LoadClass . . . . . 10	264, 265, 293–300	<b>T</b>
	\paragraph . . . . . 73	\tcbsset . . . . . 283
<b>M</b>	\parfillskip . . . . 260	\team . . . . . 97
\m@ne . . . . . 222, 254	\parindent . . 247, 259	\testl . . . . . 50
\makefactsheet . . . . .	\parskip . . . . . 185	\textbf . 76–83, 87–94
. . . . . 269, 270	\partner . . . . . 109	\textit . . . . . 84, 95
\maketitle . . 113, 117	\partners . . . . . 111	\textwidth . . . . .
\mbox . . . . . 156, 241	\penalty . . . . . 266	150, 158, 177, 292
	\placeholderbase . . . . .	\thechapter . 224, 226
<b>N</b>	125, 127, 128, 134	\thepage . . . . . 302
\newcol . . . . . 62	\placeholderpics 126	\thispagestyle . . . . .
\newcommand 76–84,	\ProcessOptions . . . 7	. . . . . 218, 276
87–95, 97, 99,	\protect 226, 231, 232	\tightlist . . . . . 184
101, 103, 105,		\title . . . . . 119
107, 109, 111,	<b>R</b>	\turnbox . . . . . 166
126, 142, 143,	\raggedright 159, 247	\typeout . . . . . 224
148, 149, 154–	\raisebox . . . . . 302	
157, 170, 174,	\refstepcounter . 223	<b>V</b>
184, 187, 269, 270	\relax . . . . . 117–120	\vskip . . . . . 251, 256
\newenvironment . . 63	\renewcommand . 20,	\vspace . 116, 144,
\newif . . . . . 1, 2	66, 113, 217, 253	150, 158, 242,
\newlength . 44–50, 125	\RequirePackage . . . . .	246, 278, 280, 282
\newpage . . . . 62, 269	11–19, 21, 22,	
\nobreak . . . 250, 265	28–30, 32, 36, 39	<b>Z</b>
\node . . . . . 132, 138	\rightskip . . . . . 259	\z@ . . 66, 219, 247, 259
\noindent 64, 150, 158		