

The agopt_ex package^{*}

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Abstract

The agopt_ex package is an aid to generate exercise sheets for the Optimization Research Group, TU Kaiserslautern, or optionally the Mathematisches Institut der Universität Koblenz.

The agopt_ex package defines:

- environments for exercises and solutions,
- two layout variants (classic and modern, respectively, the latter containing a colored logo); includes a nice footer and predefined macros for a “in-class” and “take-home” sections,
- two locations (Kaiserslautern and Koblenz),
- various ways to decide whether or not the solutions should be included in the output, including an *auto-magic*[®] mechanism,
- a number of useful features and macros.

This package documentation shows how to use the package by describing all package options and (re)defined macros. The corresponding source code snippets are included at the appropriate place for easy customization (and, of course, for instructional reasons).

1 Package Loading

1.1 Package Options

Language Settings

german	Define the language of the exercise sheet. The default is german. This option influences various textual
english	elements of the exercise sheet.

```
1 \def\ublanguage{german}
2 \DeclareOption{german}{
3   \def\ublanguage{german}
4 }
5 \DeclareOption{english}{
6   \def\ublanguage{english}
7 }
```

^{*}This document corresponds to agopt_ex v0.5.1, dated 2013/05/14. Obtain the newest version at <http://github.com/supermihi/latex>

Load Only the Environments

`bare` With the `bare` option, only the *exercise* and *solution* environments are loaded (and everything needed by those), but no fonts, desing or whatever else.

```
8 \newif\ifbare
9 \barefalse
10 \DeclareOption{bare}{\baretrue}
```

Toggle Solution Output

`solution` These options define whether or not solutions should be included in the output document or not. If neither
`nosolution` option is present, *auto-magic* detection is enabled.

With *auto-magic* detection, the solutions are output if and only if the jobname contains the string “olution” (in english mode) or “oesung” (in german mode). Note that this is not a typo; the first letter is omitted in order to be case insensitive. If you need a different detection string, redefine the `\solutionfilename` macro.

The jobname is normally the name of the source file without the `.tex` extension, but can be overridden in (pdf)latex, xelatex etc. with the `-jobname=NAME` option. This allows for a convenient workflow: Create a single `.tex` file, e.g. `exercise1.tex`, then run

- `xelatex exercise1`
- `xelatex -jobname=solution1 exercise1`

(substitute `xelatex` with your favourite \TeX engine, e.g. `pdflatex`, `latex`, ...) in order to generate `exercise1.pdf` (without solutions) and `solution1.pdf` (including solutions). The bash script `xeloetex` distributed together with this package shows how to merge both steps into one command that can be used as compile command in your favourite \TeX editor.

```
11 \newif\ifautoshowanswers
12 \newif\ifshowanswers
13 \showanswersfalse
14 \autoshowanswerstrue
15 \DeclareOption{solution}{\showanswerstrue\autoshowanswersfalse}
16 \DeclareOption{nosolution}{\showanswersfalse\autoshowanswersfalse}
```

Choose Location

`kaiserslautern` Selects the location, where Kaiserslautern is the default.

```
koblenz 17 \newif\ifkoblenz
18 \koblenzfalse
19 \DeclareOption{koblenz}{\koblenztrue}
20 \DeclareOption{kaiserslautern}{\koblenzfalse}
```

Choose Layout

`classic` Defines the style of the exercise sheet. `modern` uses a colored graphical logo of the AG in the title (as in
`modern` this document). `classic` resembles the classical exercise sheet style which hasn’t changed for the past 30 years.

```
21 \newif\ifmodern
```

```

22 \DeclareOption{modern}{\moderntrue}
23 \DeclareOption{classic}{\modernfalse}
24 \moderntrue % the default

```

This closes the options section.

```

25 \ProcessOptions\relax

```

1.2 Fonts

The package configures T_EX to use fonts of the Linux Libertine family and the Euler math font. The implementation differs for (pdf)l^atex and x^el^atex. For this package to work with x^el^atex, you need to have the Linux Libertine and Linux Biolinum OpenType fonts installed.

```

26 \ifbare %
27 %
28 \else
29   \RequirePackage{ifxetex}
30   \RequirePackage{ifthen}
31   \ifthenelse{\equal{\ublanguage}{german}}{
32     \RequirePackage[ngerman]{babel}
33   }{
34     \RequirePackage[american]{babel}
35   }
36 \ifxetex
37   \RequirePackage{amsfonts,amssymb}
38   \RequirePackage{euler}
39   \RequirePackage{xltextra}
40   \RequirePackage{xunicode}
41   \defaultfontfeatures{Mapping=tex-text} % needed for -- and --- to work
42   \setromanfont[Numbers=Proportional]{Linux Libertine O}
43   \setsansfont[Numbers=Proportional]{Linux Biolinum O}
44 \else
45   \RequirePackage{libertine}
46   \RequirePackage[T1]{fontenc}
47   \RequirePackage{inconsolata}
48
49   \usepackage{euler}
50 \fi
51 \fi

```

1.3 Required Packages

The following packages are needed by agopt_{ex}:

```

52 \ifbare %
53 %
54 \else
55   \RequirePackage{amsmath}
56   \RequirePackage{geometry}
57   \RequirePackage{hyperref}
58   \RequirePackage{fancyhdr}

```

```

59 \RequirePackage{zref-totpages}
60
61 \RequirePackage{url}
62 \fi
63 \RequirePackage{prettyref}
64 \RequirePackage{xspace}

```

2 Providing Lecture and Exercise Parameters

The following lecture and tutorial data should be set in every exercise sheet.

<code>\Lecture</code>	Specify the name of the lecture (e. g. “Praktische Mathematik: Lineare und Netzwerkoptimierung”). 65 <code>\def\Lecture#1{\def\lecture{#1}}</code>
<code>\LectureShort</code>	Specify a short name of the lecture, used in the footer (e. g. “PraMa Optimierung”). 66 <code>\def\LectureShort#1{\def\lectureshort{#1}}</code>
<code>\Sheetnumber</code>	Specify the exercise sheet number. 67 <code>\def\Sheetnumber#1{\def\sheetnumber{#1}}</code>
<code>\Deadline</code>	Specify the deadline for turn-in exercises. May include additional information such as “in the lecture” or “into the mailboxes in building 48”. 68 <code>\def\Deadline#1{\def\deadline{#1}}</code>
<code>\IssueDate</code>	Specify the date when the sheet was issued. 69 <code>\def\IssueDate#1{\def\issuedate{#1}}</code>
<code>\Lecturer</code>	Specify the name of the lecturer. 70 <code>\def\Lecturer#1{\def\lecturer{#1}}</code>
<code>\Operator</code>	Specify the name of the exercise operator. 71 <code>\def\Operator#1{\def\operator{#1}}</code>
<code>\Semester</code>	Specify the current semester or term (e. g. “winter term 2012”). 72 <code>\def\Semester#1{\def\semester{#1}}</code>
<code>\Homepage</code>	This optional parameter defines a homepage for the exercises. If it is used, the document output will contain a note where to download exercises. 73 <code>\def\Homepage#1{\def\homepage{#1}}</code>
<code>\InclassDate</code>	This optional parameter defines the date for in-class exercises. 74 <code>\def\InclassDate#1{\def\inclassdate{#1}}</code>

The parameters defined by the above macros can be accessed by their lowercase equivalents.

```

75 \def\lecture{Default lecture name}
76 \def\lectureshort{PraMa Optimierung}
77 \def\sheetnumber{1}
78 \def\deadline{}

```

```

79 \def\issuedate{06.12.1970}
80 \def\lecturer{Lecturer}
81 \def\operator{Exercise Operator}
82 \def\semester{Semester}
83 \def\homepage{}

```

2.1 Change Default Textual Elements

The words used for “Exercise”, “Sheet” etc. can be modified by redefining the following commands:

```

84 \ifthenelse{\equal{\ublanguage}{german}}{
85   \def\solutiontext{L"osung}
86   \def\exercisetext{Aufgabe}
87   \newcommand{\exerciseshheettext}{\Ubungsblatt}
88   \def\withsolutiontext{mit L"osung}
89   \def\pagetext{Seite}
90   \def\pointstext{Punkte}
91   \def\solutionsheettext{L"osungsblatt}
92   \def\deadlinetext{Abgabe bis}
93   \def\solutionfilename{oesung}
94   \def\lecturetext{Vorlesung}
95   \newcommand{\exercisestext}{\Ubungen}
96   \newcommand{\homepagetext}{Dieses \Ubungsblatt sowie weitere %
97   Informationen zur \Ubung sind unter \url{\homepage} erh\altlich.}
98   \newcommand{\inclasstexttitle}{Pr"asenz\ubungen}
99   \newcommand{\inclasstext}{Zur Bearbeitung in der \Ubung am \inclassdate}
100  \newcommand{\takehometexttitle}{Haus\ubungen}
101  \newcommand{\takehometext}{Bitte bis \deadline{} abgeben.}
102  \newcommand{\deadlinepre}{\textbf{Abgabefrist: }}
103 }{
104  \def\solutiontext{Solution}
105  \def\exercisetext{Exercise}
106  \def\exerciseshheettext{Exercise Sheet}
107  \def\solutionsheettext{Solution Sheet}
108  \def\withsolutiontext{including solutions}
109  \def\pagetext{Page}
110  \def\pointstext{points}
111  \def\deadlinetext{Due date:}
112  \def\solutionfilename{olution}
113  \def\lecturetext{Lecture}
114  \def\exercisestext{Exercises}
115  \newcommand{\homepagetext}{Download of exercises at \url{\homepage}}
116  \newcommand{\inclasstexttitle}{In-Class Exercises}
117  \newcommand{\inclasstext}{To be done in the tutorial on \inclassdate}
118  \newcommand{\takehometexttitle}{Turn-In Exercises}
119  \newcommand{\takehometext}{Please hand in by \deadline{}}
120  \newcommand{\deadlinepre}{\textbf{Deadline: }}
121 }

```

For example, if you wish to name exercises “Problem” rather than “Exercise”, simply put

```
\renewcommand{\exercisetext}{Problem}
```

in your preamble.

3 Typesetting Exercises and Solutions

3.1 Exercises

`exercise` The exercise environment is used in the following way:

```
\begin{exercise} [<title>] [<points>]  
...  
\end{exercise}
```

The parameter *<points>* will be typeset in parenthesis after the exercise title, unless it is empty. If the optional *<title>* is given, the exercise title is typeset after the exercise number, separated by an endash (–). Exercises are numbered by a special counter (`exercise`); the number is displayed in the style $x.y$ where x is the sheet number and y the exercise number on the sheet. You can thus use `\label` and `\ref` for exercise refercencing as well as `\theexercise` to output the current exercise number.

As an example, the code

```
\begin{exercise}[$P \neq NP$]{4}  
  Prove that  $P$  is a proper subset of  $NP$ .  
\end{exercise}
```

will be output as

Exercise 1.1 – $P \neq NP$ (4 points)

Prove that P is a proper subset of NP .

```
122 \newcommand{\exheader}[1]{\par\vspace{2.5mm}\noindent{\bfseries #1}\par\vspace{1.5mm}}  
123 \newcounter{exercise}  
124 \setcounter{exercise}{0}  
125 \newenvironment{exercise}[2][{}]{%  
126 {%  
127   \refstepcounter{exercise}  
128   \exheader{\exercisetext{}} \sheetnumber.\arabic{exercise}  
129   \ifthenelse{\equal{#1}{}}{\}{-- #1}  
130   \ifthenelse{\equal{#2}{}}{\}{(#2 \pointstext)}}  
131 }%  
132 {\par\vspace{2mm}}
```

Subexercises can be typeset with usual `\enumerate` environments. In order not to mix up exercise and subexercise numbering, this package sets the first-order enumeration labelling to alphabetic numbering and the second order to arabic:

```
133 \RequirePackage{enumitem}  
134 \setlist[enumerate,1]{label=\alph*}  
135 \setlist[enumerate,2]{label=\arabic*}
```

3.2 Solutions

`solution` The solution environment can be used to create a sample solution. You can decide whether or not so-

lutions will be included in the output, in order to distinguish between exercise and solution sheets (see Section 1.1).

The solution environment is used as follows:

```
\begin{solution} [<points>]
```

```
...
```

```
\end{solution}
```

The optional *<points>* parameter is typeset in the same way as the *<points>* argument of the *<solution>* environment. It may be used to denote the point split in case of subexercises.

For example, the code

```
\begin{solution}[2+2]
  Base clause: Let  $N=1$ , then obviously  $P=NP$ .
\end{solution}
```

will be output to (if solution output is active)

Solution 1.1 (2+2 points):

Base clause: Let $N = 1$, then obviously $P = NP$.

3.3 Implementation of the Auto-Magic Solution Feature

If neither `solution` nor `nosolution` is provided as package option, test if the `\jobname` contains the (language specific) word for “solution”. The test requires the `xstring` package.

```
136
137 \ifautoshowanswers
138 \RequirePackage{xstring}
139 \IfSubStr*\jobname{\solutionfilename}{
140   \showanswerstrue
141 }{
142   \showanswersfalse
143 }
144 \fi
145 \newenvironment{solution}[1][{}]{%
146 {%
147   \ifshowanswers
148     \exheader{\solutiontext{} \sheetnumber.\arabic{exercise}}%
149     \ifthenelse{\equal{#1}{}}{\{ ( #1 \pointstext) : }%
150   \else
151     \par\vspace*{0pt}%
152     \setbox\z@\vbox\bgroup
153   \fi
154 }{%
155   \ifshowanswers
156     %
157   \else
158     \egroup
159   \fi
160 }%
```

3.4 In-Class and Take-Home Exercises

`\inclass` These optional macros create a title that marks the begin of the “in-class” or “take-home” part, respectively,
`\takehome` of the exercise sheet.

```
161 % marks if an exercise type (inclass, takehome) was explicitly chosen, because otherwise the layout
162 % has to automatically print the deadline information.
163 \ifbare\else
164   \newif\ifexplicittype
165   \explicittypefalse
166   \newcommand{\inclass}{\par{\large
167     \ifmodern\textsc{\inclasstexttitle}\else\MakeUppercase{\inclasstexttitle}\fi}\\
168     (\inclasstext)\par
169     \explicittypetrue
170   }
171   \newcommand{\takehome}{\par{\large
172     \ifmodern\textsc{\takehometexttitle}\else\MakeUppercase{\takehometexttitle}\fi}\\
173     (\takehometext)\par
174     \explicittypetrue
175   }
176 \fi
```

4 Miscellaneous Features

4.1 PDF parameters

This package sets some PDF parameters according to the exercise sheet definition.

```
177 \ifbare\else
178   \hypersetup{%
179     pdftitle={\lecture, \exercisheettext{} \sheetnumber}, %
180     pdfauthor={\ifkoblenz Mathematisches Institut, Universität Koblenz\else Optimization Research Group, TU Kaiserslautern\fi},
181     pdfcreator={\ifxetex XeLaTeX \else LaTeX2e \fi}}
182 \fi
```

4.2 Referencing Exercises and Solutions

This package defines to reference formats for the `prettyref` package which can be used to reference exercises and solutions, respectively. Example:

Use the graph of `\prettyref{ex:dijkstra}` and ...

Would be typeset as, say,

Use the graph of Exercise 2 and ...

```
183 \newrefformat{ex}{\exercisetext~\ref{#1}}
184 \newrefformat{solution}{\solutiontext~\ref{#1}}
```

4.3 Headers and Footers

`agopt_ex` uses `fancyhdr` to set an empty header and a nice footer. You can modify the following default layout if you wish.


```

185 \ifbare\else
186   \pagestyle{fancy}
187   \fancyhead{}
188   \renewcommand{\headrulewidth}{0pt}
189   \renewcommand{\footrulewidth}{.4pt}
190   \cfoot{\ifshowanswers\solutionsheettext{}\else\exerciseshheettext{}\fi} \sheetnumber}
191   \rfoot{\pagetext{} \thepage/\ztotpages}
192   \lfoot{\lectureshort}
193 \fi

```

5 Implementation of the Layouts

The modern layout uses tikz to draw the logo.

```

194 \ifbare\else
195   \newcommand{\titledateline}{%
196     \ifthenelse{\equal{\deadline}{}}{%
197       {\inclasstext}%
198       {\deadlinetext{} \deadline{}}%
199   }
200   \ifmodern
201     \RequirePackage{tikz}
202     \definecolor{tublau}{rgb}{0.125,0.34,0.68}
203     \renewcommand{\maketitle}{
204       \hrule\vspace{2mm}
205       \ifkoblenz
206         \begin{minipage}{0.65\textwidth}
207       \else
208         \begin{minipage}{0.55\textwidth}
209       \fi
210       {\sffamily \lecture{}};\textbullet;\semester\\
211       \LARGE \scshape \exerciseshheettext{} \sheetnumber %
212       \ifshowanswers%
213         {\Large{} (\withsolutiontext)}%
214       \fi\\
215       \small \upshape \itshape \rmfamily \titledateline}
216     \end{minipage}
217     \ifkoblenz
218       \begin{minipage}{0.34\textwidth}
219     \else
220       \begin{minipage}{0.44\textwidth}
221     \fi
222     \begin{flushright}
223     \ifkoblenz
224       \definecolor{koblue}{RGB}{29,78,148}
225       \begin{tikzpicture}[y=-0.4pt, x=0.4pt]
226         \begin{scope}[cm={{1.25,0.0,0.0,-1.25,(0.0,57.5)}}]
227           \path[draw=koblue,line join=miter,line cap=butt,miter limit=3.86,line width=1.355pt] (52.2523,44.1371) --
228           \path[fill=koblue,nonzero rule] (9.7570,26.2781) -- (25.4219,26.2781) -- (24.6152,23.8500) -- (8.9500,23.8500)
229           \path[fill=koblue,nonzero rule] (34.1387,26.2781) -- (49.8039,26.2781) -- (48.9969,23.8500) -- (33.3320,23.8500)

```

```

230 \path[fill,nonzero rule] (71.3902,12.8836) -- (71.3902,20.6355) -- (69.3742,20.6355) -- (69.3742,2.5394)
231 \path[fill,even odd rule] (91.1125,20.9477) .. controls (85.9523,20.9477) and (81.6797,16.7477) .. (81.6797,2.5394)
232 \path[fill,even odd rule] (105.2860,10.9398) -- (107.0380,10.9398) .. controls (109.2460,10.9398) and (111.4990,10.9398) .. (111.4990,2.5394)
233 \path[fill,nonzero rule] (118.9120,20.6355) -- (116.8960,20.6355) -- (116.8960,2.5394) -- (123.9040,2.5394)
234 \path[fill,nonzero rule] (125.8960,2.5394) -- (135.2800,2.5394) -- (135.2800,4.4117) -- (127.9120,4.4117)
235 \path[fill,nonzero rule] (138.8260,2.5394) -- (140.8420,2.5394) -- (140.8420,16.4836) -- (154.9540,1.7238)
236 \path[fill,nonzero rule] (160.5690,4.4117) -- (170.4570,20.6355) -- (158.4800,20.6355) -- (158.4800,18.7617)
237 \path[fill,nonzero rule] (179.4550,12.8383) .. controls (178.7110,12.8383) and (178.1110,12.2383) .. (178.1110,2.5394)
238 \path[fill,nonzero rule] (191.7840,20.6355) -- (189.7680,20.6355) -- (189.7680,2.5394) -- (196.7760,2.5394)
239 \path[fill,even odd rule] (209.6880,7.6758) -- (211.8240,2.5394) -- (214.0550,2.5394) -- (205.9200,21.4990)
240 \path[fill,nonzero rule] (216.1410,2.5394) -- (218.1570,2.5394) -- (218.1570,16.4836) -- (232.2700,1.7238)
241 \path[fill,even odd rule] (236.0370,2.5394) -- (239.3960,2.5394) .. controls (242.2290,2.5394) and (244.3960,2.5394) .. (244.3960,2.5394)
242 \path[fill,even odd rule] (262.2620,7.6758) -- (264.3980,2.5394) -- (266.6290,2.5394) -- (258.4940,21.4990)
243 \path[fill,nonzero rule] (269.8440,20.6355) -- (267.8280,20.6355) -- (267.8280,9.3074) .. controls (267.8280,2.5394) and (267.8280,16.4836) .. (267.8280,2.5394)
244 \path[fill,nonzero rule] (71.3422,44.6355) -- (69.3262,44.6355) -- (69.3262,33.3074) .. controls (69.3262,2.5394) and (69.3262,16.4836) .. (69.3262,2.5394)
245 \path[fill,nonzero rule] (93.4863,26.5395) -- (95.5023,26.5395) -- (95.5023,40.4836) -- (109.6140,25.7238)
246 \path[fill,nonzero rule] (120.9890,26.5395) -- (123.0054,26.5395) -- (123.0054,44.6356) -- (120.9890,44.6356)
247 \path[fill,nonzero rule] (134.7300,44.6355) -- (132.5460,44.6355) -- (139.8900,25.4598) -- (147.2340,44.6356)
248 \path[fill,nonzero rule] (156.7520,26.5395) -- (166.1360,26.5395) -- (166.1360,28.4117) -- (158.7690,28.4117)
249 \path[fill,even odd rule] (179.1380,42.7637) -- (179.7380,42.7637) .. controls (182.1620,42.7637) and (182.1620,2.5394) .. (182.1620,2.5394)
250 \path[fill,nonzero rule] (207.5020,42.1395) .. controls (206.5420,43.9156) and (204.8380,44.9477) .. (202.5020,42.1395)
251 \path[fill,nonzero rule] (218.7000,26.5395) -- (220.7160,26.5395) -- (220.7160,44.6356) -- (218.7000,44.6356)
252 \path[fill,nonzero rule] (236.7370,42.7637) -- (241.1530,42.7637) -- (241.1530,44.6355) -- (230.3520,44.6356)
253 \path[fill,even odd rule] (259.2930,31.6758) -- (261.4300,26.5395) -- (263.6610,26.5395) -- (255.5250,45.5250)
254 \path[fill,nonzero rule] (276.0670,42.7637) -- (280.4840,42.7637) -- (280.4840,44.6355) -- (269.6840,44.6356)
255 \path[fill,nonzero rule] (250.6180,44.7105) .. controls (249.8740,44.7105) and (249.2740,44.1105) .. (249.2740,2.5394)
256 \path[fill,nonzero rule] (260.4040,44.7105) .. controls (259.6600,44.7105) and (259.0590,44.1105) .. (259.0590,2.5394)
257 \end{scope}
258 \end{tikzpicture}
259 \else
260 \begin{tikzpicture}[klumpen/.style={minimum size=4mm,rectangle},
261 every edge/.append style={very thick,scale=.9}]
262 \node[fill=red,klumpen] (k1) at (0,0) {};
263 \node[fill=tublau,klumpen] (k2) at (2,0) {} edge (k1);
264 \node[fill=tublau,klumpen] (k3) at (2,-1) {} edge(k2);
265 \node[fill=red,klumpen] (k4) at (5,-1) {} edge(k3);
266 \node[font={\sffamily\bfseries\fontsize{15}{16}\selectfont}] at (1,-.5) {OPT};
267 \node[font={\sffamily\fontsize{8}{7}\selectfont},anchor=west] at (2.3,-.5)
268 {\begin{minipage}{2.6cm}Optimization\Research Group\end{minipage}};
269 \end{tikzpicture}
270 \fi
271 \end{flushright}
272 \end{minipage}\vspace{2mm}\hrule
273 \begin{center}\small
274 \textbf{\lecturetext:} \lecturer\
275 \textbf{\exercisestext:} \operator
276 \end{center}\vspace{-2mm}
277 \ifthenelse{\equal{\homepage}{}}{\}{
278 {\small \homepagetext}
279 }

```

```

280 }
281
This is the implementation of the classic layout.
282 \else
283 \renewcommand{\maketitle}{
284 \begin{minipage}{0.49\textwidth}
285 \begin{flushleft}
286 \ifkoblenz
287     Universit\at Koblenz-Landau, Campus Koblenz\
288     Mathematisches Institut\
289 \else
290     Technische Universit\at Kaiserslautern\
291     Fachbereich Mathematik\
292 \fi
293 \issuedate
294 \end{flushleft}
295 \end{minipage}
296 \begin{minipage}{0.49\textwidth}
297 \begin{flushright}
298 \lecturer\
299 \operatorator\
300 \semester
301 \end{flushright}
302 \end{minipage}
303
304 \begin{center}
305 {\Large \bfseries \lecture}\[0.6cm]
306 {\Large \bfseries%
307 \ifshowanswers%
308 \solutionsheettext}%
309 \else
310 \exerciseshheettext}%
311 \fi{} \sheetnumber}\[1cm]
312 \end{center}
313 }
314 % URL at end of document
315 \AtEndDocument{%
316 \ifexplicittype
317 \else
318 \par
319 \deadlinepre\takehometext
320 \fi
321 \ifthenelse{\equal{\homepage}{}}{}{
322 \begin{center}
323 \vfill{\small \homepagetext}
324 \end{center}
325 }
326 }
327 \fi
328 \fi

```

Change History

v0.1		umentation	1
General: Initial version	1	v0.4	
v0.2		General: add Koblenz mode	1
General: Largely rewritten	1	v0.4.1	
v0.2.1		General: optional points arg for solution environ-	
General: Add font definitions	1	ment	1
v0.2.2		v0.5	
General: Improve on AG logo	1	General: implement optional bare mode which	
v0.3		loads only the environments	1
General: A first complete proof-read, again lots of			
small changes	1	v0.5.1	
v0.3.1		General: use TikZ version of the Koblenz logo . . .	1
General: Fixed modern layout, added URL to doc-			

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	D	F
\” . . . 85, 87, 88, 91, 95–100, 287, 290	\Deadline <u>68</u>	\exercisetext . . . 86, 105, 128, 183
\; 210	\deadline 68, 78, 101, 119, 196, 198	\exheader 122, 128, 148
\\ 167, 172, 210,	\deadlinepre 102, 120, 319	\explicittypefalse 165
214, 268, 274, 287, 288,	\deadlinetext 92, 111, 198	\explicittypetrue 169, 174
290, 291, 298, 299, 305, 311	\DeclareOption 2,	
	5, 10, 15, 16, 19, 20, 22, 23	F
A	\def 1, 3, 6, 65–	\fancyhead 187
\alph 134	83, 85, 86, 88–94, 104–114	\fi . . . 50, 51, 62, 144, 153, 159,
\arabic 128, 135, 148	\defaultfontfeatures 41	167, 172, 176, 180–182,
\AtEndDocument 315	\definecolor 202, 224	190, 193, 209, 214, 221,
\autoshowanswersfalse . . . 15, 16		270, 292, 311, 320, 327, 328
\autoshowanswerstrue 14	E	\fontsize 266, 267
	\egroup 158	\footrulewidth 189
B	\else 28, 44, 54, 150, 157,	
\bare <u>8</u>	163, 167, 172, 177, 180,	G
\barefalse 9	181, 185, 190, 194, 207,	\german <u>1</u>
\baretrue 10	219, 259, 282, 289, 309, 317	
\begin 206, 208, 218, 220, 222,	\end 216, 257, 258,	H
225, 226, 260, 268, 273,	268, 269, 271, 272, 276,	\headrulewidth 188
284, 285, 296, 297, 304, 322	294, 295, 301, 302, 312, 324	\Homepage <u>73</u>
\bfseries 122, 266, 305, 306	\english <u>1</u>	\homepage . . . 73, 83, 97, 115, 277, 321
\bgroup 152	\equal 31,	\homepagetext . . . 96, 115, 278, 323
	84, 129, 130, 149, 196, 277, 321	\hrule 204, 272
C	\exercisheettext	\hypersetup 178
\cfoot 190	. . . 87, 106, 179, 190, 211, 310	
\classic <u>21</u>	\exercisetext 95, 114, 275	I
		\ifautoshowanswers 11, 137
		\ifbare 8, 26, 52, 163, 177, 185, 194

