Slides and Course Notes*

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Abstract

We present a document class from which we can generate both course slides and course notes in a transparent way.

Contents

1	Intr	roduction	2
2	The	e User Interface	2
	2.1	Package Options	2
	2.2	Notes and Slides	2
	2.3	Header and Footer Lines	3
	2.4	Colors and Highlighting	3
	2.5	Front Matter, Titles, etc	4
	2.6	Miscellaneous	4
3	Lim	itations	4
4	$Th\epsilon$	e Implementation	4
	4.1	Class and Package Options	4
	4.2	Notes and Slides	6
	4.3	Header and Footer Lines	8
	4.4	Colors and Highlighting	10
	4.5	Sectioning	11
	4.6	Miscellaneous	12

^{*}Version ? (last revised ?)

1 Introduction

The mikoslides document class is derived from beamer.cls [Tana], it adds a "notes version" for course notes derived from the omdoc class [Kohlhase:smomdl] that is more suited to printing than the one supplied by beamer.cls.

2 The User Interface

The mikoslides class takes the notion of a slide frame from Till Tantau's excellent beamer class and adapts its notion of frames for use in the STEXand OMDoc. To support semantic course notes, it extends the notion of mixing frames and explanatory text, but rather than treating the frames as images (or integrating their contents into the flowing text), the mikoslides package displays the slides as such in the course notes to give students a visual anchor into the slide presentation in the course (and to distinguish the different writing styles in slides and course notes).

In practice we want to generate two documents from the same source: the slides for presentation in the lecture and the course notes as a narrative document for home study. To achieve this, the mikoslides class has two modes: *slides mode* and *notes mode* which are determined by the package option.

2.1 Package Options

The mikoslides class takes a variety of class options:¹

slides

• The options slides nd notes notes switch between slides mode and notes mode (see Section 2.2).

sectocframes

EdN:1

EdN:2

If the option sectocframes is given, then special frames with section table
of contents are produced headers²

showmeta

• showmeta. If this is set, then the metadata keys are shown (see [Koh17] for details and customization options).

frameimages

• If the option frameimages is set, then slide mode also shows the \frameimage-generated frames.

2.2 Notes and Slides

frame note

Slides are represented with the frame just like in the beamer class, see [Tanb] for details. The mikoslides class adds the note environment for encapsulating the course note fragments.¹

¹EDNOTE: leaving out noproblems for the moment until we decide what to do with it.

²EDNOTE: document the functionality

¹MK: it would be very nice, if we did not need this environment, and this should be possible in principle, but not without intensive LaTeX trickery. Hints to the author are welcome.

⚠ Note that it is essential to start and end the notes environment at the start of the line – in particular, there may not be leading blanks – else IATEX becomes confused and throws error messages that are difficult to decipher.

```
\begin{note}
  We start this course with ...
\end{note}

\begin{frame}
  \frametitle{The first slide}
    ...
\end{frame}
\begin{note}
    ... and more explanatory text
\end{note}

\begin{frame}
  \frametitle{The second slide}
    ...
\end{frame}
    ...
\end{frame}
```

Example 1: A typical Course Notes File

p By interleaving the frame and note environments, we can build course notes as shown in Figure 1.

Sometimes, we want to integrate slides as images after all – e.g. because we already have a PowerPoint presentation, to which we want to add STEXnotes. In this case we can use $\frac{\langle opt \rangle}{\langle path \rangle}$, where $\langle opt \rangle$ are the options of $\frac{\langle opt \rangle}{\langle opt \rangle}$ and $\frac{\langle path \rangle}{\langle opt \rangle}$ is the file path (extension can be left off like in $\frac{\langle opt \rangle}{\langle opt \rangle}$).

\ninputref

\frameimage

If we want to transclude a the contents of a file as a note, we can use the \ninputref macro. \ninputref foo} is equivalent to

\begin{note}
\inputref{foo}
\end{note}

2.3 Header and Footer Lines

2.4 Colors and Highlighting

\textwarning The \textwarning macro generates a warning sign:

3

2.5 Front Matter, Titles, etc

2.6 Miscellaneous

3 Limitations

In this section we document known limitations. If you want to help alleviate them, please feel free to contact the package author. Some of them are currently discussed in the STFXGitHub repository [sTeX].

1. when option book which uses \pagestyle{headings} is given and semantic macros are given in the omgroup titles, then they sometimes are not defined by the time the heading is formatted. Need to look into how the headings are made. This is a problem of the underlying omdoc package.

4 The Implementation

4.1 Class and Package Options

We define some Package Options and switches for the mikoslides class and activate them by passing them on to beamer.cls and omdoc.cls and the mikoslides package. We pass the nontheorem option to the statements package when we are not in notes mode, since the beamer package has its own (overlay-aware) theorem environments.

```
 \begin{array}{c} 1 \ \langle *cls \rangle \\ 2 \ \end{center} \\ 3 \ \end{center} \\ 3 \ \end{center} \\ 3 \ \end{center} \\ 4 \ \end{center} \\ 4 \ \end{center} \\ 4 \ \end{center} \\ 4 \ \end{center} \\ 5 \ \end{center} \\ 5 \ \end{center} \\ 5 \ \end{center} \\ 6 \ \end{center} \\ 6 \ \end{center} \\ 6 \ \end{center} \\ 7 \ \end{center} \\ 7 \ \end{center} \\ 7 \ \end{center} \\ 8 \ \end{center} \\ 8 \ \end{center} \\ 8 \ \end{center} \\ 8 \ \end{center} \\ 9 \ \end{
```

now we do the same for the mikoslides package. Note that we also have to define the same switches³, since we might use mikoslides.sty in a different class.

 $^{^3\}mathrm{EdNote}\colon\mathsf{MK}$: we may think about making all of them internal

```
20 \newif\ifsectocframes\sectocframesfalse
{\tt 21 \setminus DeclareOption\{sectocframes\}\{sectocframestrue \mid PassOptionsToPackage\{msection\}\{statements\}\}\}}
22 \newif\ifframeimages\frameimagesfalse
23 \DeclareOption{frameimages}{\frameimagestrue}
24 \newif\if@part\@partfalse
25 \DeclareOption{report}{\@parttrue\PassOptionsToPackage{\CurrentOption}{omdoc}}
26 \DeclareOption{book}{\@parttrue\PassOptionsToPackage{\CurrentOption}{omdoc}}
27 \DeclareOption{bookpart}{\@parttrue\PassOptionsToPackage{\CurrentOption}{omdoc}}
28 \newif\ifproblems\problemstrue
29 \DeclareOption{noproblems}{\problemsfalse}
\PassOptionsToPackage{\CurrentOption}{smglom}
                              \PassOptionsToPackage{\CurrentOption}{tikzinput}}
33 \ProcessOptions
34 (/package)
   Depending on the options, we either load the article-based omdoc or the
beamer class (and set some counters).
35 (*cls)
36 \ifnotes
    \LoadClass{omdoc}
38 \else
    \LoadClass[10pt,notheorems]{beamer}
39
    \newcounter{Item}
40
41
    \newcounter{paragraph}
    \newcounter{subparagraph}
43 \newcounter{Hfootnote}
44\fi
now it only remains to load the mikoslides package that does all the rest.
45 \RequirePackage{mikoslides}
46 (/cls)
   In notes mode, we also have to make the beamer-specific things available
to article via the beamerarticle package. We use options to avoid loading
theorem-like environments, since we want to use our own from the STFX packages.
The first batch of packages we want are loaded on mikoslides.sty. These are the
general ones, we will load the STFX-specific ones after we have done some work
(e.g. defined the counters m*). Only the stex-logo package is already needed
now for the default theme.
47 (*package)
48 \ifnotes
49 \RequirePackage{a4wide}
50 \RequirePackage{marginnote}
51 \RequirePackage{xcolor}
52 \RequirePackage\{mdframed\}
```

53 \RequirePackage[noxcolor,noamsthm]{beamerarticle}

56 \RequirePackage{etoolbox}

55 \if@mikoslides@mh@\RequirePackage{mikoslides-mh}\fi

```
57 \RequirePackage{amssymb}
58 \RequirePackage{amsmath}
59 \RequirePackage{comment}
60 \RequirePackage{textcomp}
61 \RequirePackage{url}
62 \RequirePackage{graphicx}
63 \RequirePackage{stex-logo}
64 \RequirePackage{spf}
65 \ifnotes
66 \RequirePackage[bookmarks,bookmarksopen,bookmarksnumbered,breaklinks,
67 linkcolor=black,citecolor=black,urlcolor=cyan,filecolor=cyan,colorlinks]{hyperref}
68 \fi
```

finally, we require the metakeys package from STEX, so that we can use the \addmetakey mechanism.

69 \RequirePackage{metakeys}

4.2 Notes and Slides

For the lecture notes cases, we also provide the \usetheme macro that would otherwise from the the beamer class. While the latter loads beamertheme $\langle theme \rangle$.sty, the notes version loads beamernotestheme $\langle theme \rangle$.sty.

```
70 \ifnotes
71 \renewcommand\usetheme[2][]{\usepackage[#1]{beamernotestheme#2}}
72 \fi
```

We define the sizes of slides in the notes. Somehow, we cannot get by with the same here.

```
73 \newcounter{slide}
```

- $74 \end{th}\slidewidth}\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewidth\slidewi$
- 75 \newlength{\slideheight}\setlength{\slideheight}{9cm}

note The note environment is used to leave out text in the slides mode. It does not have a counterpart in OMDoc. So for course notes, we define the note environment to be a no-operation otherwise we declare the note environment as a comment via the comment package.

```
76 \ifnotes%
```

77 \renewenvironment{note}{\ignorespaces}{}%

 $78 \le$

79 \excludecomment{note}%

80 \fi%

\ninputref

81 \newcommand\ninputref[2][]{\ifnotes\inputref[#1]{#2}\fi}

 $^{^4\}mathrm{EDNote}\colon$ MK: This is not ideal, but I am not sure that I want to be able to provide the full theme functionality there.

We first set up the slide boxes in article mode. We set up sizes and provide a box register for the frames and a counter for the slides.

```
82 \ifnotes
           \newlength{\slideframewidth}
           \setlength{\slideframewidth}{1.5pt}
       We first define the keys.
frame
       85
           \addmetakey{frame}{label}
       86
            \addmetakey[yes]{frame}{allowframebreaks}
           \addmetakey{frame}{allowdisplaybreaks}
       87
       88
           \addmetakey[yes]{frame}{fragile}
       89
           \addmetakey[yes]{frame}{shrink}
           \addmetakey[yes]{frame}{squeeze}
       We define the environment, read them, and construct the slide number and label.
           \renewenvironment{frame}[1][]{%
       91
       92
              \metasetkeys{frame}{#1}%
       93
              \stepcounter{slide}%
              \def\@currentlabel{\theslide}%
       94
              \ifx\frame@label\@empty%
       95
       96
              \else%
                \label{\rm abel}\
       97
              \fi%
       We redefine the itemize environment so that it looks more like the one in beamer.
              \def\itemize@level{outer}%
       99
              \def\itemize@outer{outer}%
      100
              \def\itemize@inner{inner}%
      101
              \renewcommand\newpage{}%
      102
              \renewcommand\metakeys@show@keys[2]{\marginnote{{\scriptsize ##2}}}%
      103
              \renewenvironment{itemize}{%
      104
      105
                \ifx\itemize@level\itemize@outer%
      106
                  \def\itemize@label{$\rhd$}%
      107
                \fi%
      108
                \ifx\itemize@level\itemize@inner%
                  \def\itemize@label{$\scriptstyle\rhd$}%
      109
                \fi%
      110
                \begin{list}%
      111
      112
                {\itemize@label}%
                {\setlength{\labelsep}{.3em}%
      113
      114
                 \setlength{\labelwidth}{.5em}%
                 \setlength{\leftmargin}{1.5em}%
      115
      116
                \edef\itemize@level{\itemize@inner}%
      117
      118
             }{%
      119
                \end{list}%
      120
             }%
```

We create the box with the mdframed environment from the equinymous package.

\begin{mdframed}[linewidth=\slideframewidth,skipabove=1ex,skipbelow=1ex,userdefinedwidth=\s

```
122
                  \medskip\miko@slidelabel\end{mdframed}%
           123
                }%
           124
               Now, we need to redefine the frametitle (we are still in course notes mode).
\frametitle
                126 \fi %ifnotes
\frameimage We have to make sure that the width is overwritten, for that we check the
            \Gin@ewidth macro from the graphicx package<sup>5</sup>
           127 \newrobustcmd\frameimage[2][]{%
           128
                \stepcounter{slide}%
           129
                \ifframeimages%
                  \def\Gin@ewidth{}\setkeys{Gin}{#1}%
           130
                  \ifnotes%
           131
                  \else%
           132
                    \vfill%
           133
           134
                  \fi%
           135
                  \ifx\Gin@ewidth\@empty%
                    \mycgraphics[width=\slidewidth,#1]{#2}\else\mycgraphics[#1]{#2}%
           136
           137
                  \par\strut\hfill{\footnotesize Slide \arabic{slide}}%
           138
                  \ifnotes%
           139
                  \else%
           140
           141
                    \vfill%
           142
                  \fi%
```

\pause

EdN:5

EdN:6

145 \ifnotes\newcommand\pause{}\fi

\fi%

144 }% ifframeimages

143

4.3 Header and Footer Lines

Now, we set up the infrastructure for the footer line of the slides, we use boxes for the logos, so that they are only loaded once, that considerably speeds up processing.

\setslidelogo The default logo is the logo of Jacobs University. Customization can be done by \setslidelogo{ $\langle logo \ name \rangle$ }.

```
146 \newlength{\slidelogoheight}
147 \ifnotes%
148 \setlength{\slidelogoheight}{.4cm}%
149 \else%
```

 $^{^5\}mathrm{EdNote}$: MK@DG; we need to do that in the LaTeXML binding as well!

 $^{^6\}mathrm{EdNote}$: MK: fake it in notes mode for now

```
150 \setlength{\slidelogoheight}{1cm}%
151 \fi%
152 \newsavebox{\slidelogo}%
153 \sbox{\slidelogo}{\sTeX}%
154 \newrobustcmd{\setslidelogo}[1]{%
155 \sbox{\slidelogo}{\includegraphics[height=\slidelogoheight]{#1}}%
156 }%
```

\setsource

\source stores the writer's name. By default it is *Michael Kohlhase* since he is the main user and designer of this package. \setsource{ $\langle name \rangle$ } can change the writer's name.

```
157 \def\source{Michael Kohlhase}% customize locally 158 \newrobustcmd{\setsource}[1]{\def\source{#1}}%
```

\setlicensing

Now, we set up the copyright and licensing. By default we use the Creative Commons Attribution-ShareAlike license to strengthen the public domain. If package hyperref is loaded, then we can attach a hyperlink to the license logo. $\ensuremath{\mbox{setlicensing}[\langle url \rangle]} {\langle logo\ name \rangle}$ is used for customization, where $\langle url \rangle$ is optional.

```
159 \ensuremath{\mbox{\mbox{$159$ \copyright:\hspace{.3ex}{\source}}}\%
160 \newsavebox{\cclogo}%
161 \sbox{\cclogo}{\includegraphics[height=\slidelogoheight]{cc_somerights}}%
162 \newif\ifcchref\cchreffalse%
163 \AtBeginDocument{%
     \@ifpackageloaded{hyperref}{\cchreftrue}{\cchreffalse}
164
165 }%
166 \def\licensing{%
167
     \ifcchref%
168
       \href{http://creativecommons.org/licenses/by-sa/2.5/}{\usebox{\cclogo}}%
169
     \else%
170
       {\usebox{\cclogo}}%
171
     \fi%
172 }%
173 \newrobustcmd{\setlicensing}[2][]{%
     \def\@url{#1}%
174
     \sbox{\cclogo}{\includegraphics[height=\slidelogoheight]{#2}}%
175
     \ifx\@url\@empty%
176
       \def\licensing{{\usebox{\cclogo}}}%
177
178
     \else%
179
       \def\licensing{%
         \ifcchref%
180
181
         \href{#1}{\usebox{\cclogo}}%
182
         \else%
         {\usebox{\cclogo}}%
183
         \pi
184
       }%
185
186
    \fi%
187 }%
```

```
EdN:7
```

\slidelabel Now, we set up the slide label for the article mode.⁷

```
188 \newrobustcmd\miko@slidelabel{%
     \vbox to \slidelogoheight{%
189
       \vss\hbox to \slidewidth%
190
191
       {\licensing\hfill\copyrightnotice\hfill\arabic{slide}\hfill\usebox{\slidelogo}}%
192
    }%
193 }%
```

4.4 Colors and Highlighting

We first specify sans serif fonts as the default.

```
194\sffamily
```

Now, we set up an infrastructure for highlighting phrases in slides. Note that we use content-oriented macros for highlighting rather than directly using color markup. The first thing to to is to adapt the green so that it is dark enough for most beamers

```
195 \AtBeginDocument{%
196 \definecolor{green}{rgb}{0,.5,0}%
197 \definecolor{purple}{cmyk}{.3,1,0,.17}%
198 }%
```

We customize the \defemph, \notemph, and \stDMemph macros with colors for the use in the statements package. Furthermore we customize the \@@lec macro for the appearance of line end comments in \lec.

```
199 % \def\STpresent#1{\textcolor{blue}{#1}}
200 \def\defemph#1{{\textcolor{magenta}{#1}}}
201 \def\notemph#1{{\textcolor{magenta}{#1}}}
202 \def\stDMemph#1{{\textcolor{blue}{#1}}}
203 \def\@@lec#1{(\textcolor{green}{#1})}
```

I like to use the dangerous bend symbol for warnings, so we provide it here.

\textwarning as the macro can be used quite often we put it into a box register, so that it is only loaded once.

```
204 \verb|\pgfdeclareimage[width=.9em]{miko@small@dbend}{dangerous-bend}|
205 \def\smalltextwarning{%
206
     \pgfuseimage{miko@small@dbend}%
207
     \xspace%
208 }%
209 \pgfdeclareimage[width=1.5em]{miko@dbend}{dangerous-bend}
210 \newrobustcmd\textwarning{%
     \raisebox{-.05cm}{\pgfuseimage{miko@dbend}}%
212
     \xspace%
213 }%
214 \pgfdeclareimage [width=2.5em] \{ miko@big@dbend} \{ dangerous-bend} \%
215 \newrobustcmd\bigtextwarning{%
     \raisebox{-.05cm}{\pgfuseimage{miko@big@dbend}}%
```

 $^{^7{}m EdNote}$: see that we can use the themes for the slides some day. This is all fake.

```
217 \xspace%
218 }%
219 \newrobustcmd\putgraphicsat[3] {%
220 \begin{picture}(0,0)\put(#1) {\includegraphics[#2] {#3}}\end{picture}%
221 }%
222 \newrobustcmd\putat[2] {%
223 \begin{picture}(0,0)\put(#1) {#2}\end{picture}%
224 }%
```

4.5 Sectioning

If the sectocframes option is set, then we make section frames. We first define a set of counters⁸

```
225 \ifsectocframes%
226 \if@part%
       \newcounter{mpart}%
227
228
       \newcounter{mchapter}%
       \newcounter{msection} [mchapter] %
229
230
     \else%
       \newcounter{msection}%
231
232
     \fi%
     \newcounter{msubsection} [msection] %
233
     \newcounter{msubsubsection}[msubsection]%
234
     \newcounter{msubsubsection}[msubsubsection]%
235
236 \fi% ifsectocframes
```

Now that we have defined the counters, we can load the STEX-specific packages (in particular statements that needs these counters).

```
237 \RequirePackage{stex}
238 \RequirePackage{smglom}
239 \RequirePackage{tikzinput}
```

Now STEXis loaded, we redefine the omgroup environment to produce section too frames (if the option sectocframes is specified.)⁹

```
240 \in \% only in slides
     \renewenvironment{omgroup}[2][]{%
241
       \metasetkeys{omgroup}{#1}\sref@target%
242
       \advance\section@level by 1%
243
       \ifsectocframes%
244
245
       \stepcounter{slide}
       \begin{frame}[noframenumbering]%
246
247
       \vfill\Large\centering%
       \red{%}
248
```

 $^{^8\}mathrm{EdNote}$: I forget: why not use the counters from beamer/article? –¿ document this.

 $^{^9\}mathrm{EDNote}$: MK: we should probably just redefine omgroup@num and omgroup@nonum, since they do the actual work so that we can add the sectocframes behavior here without having to copy the internals. Then there is less material that can get out of sync. Additionally, we should have a hook in the original code of those so that we can increment the slides counter in notes node (to keep slides in sync)

```
\ifcase\section@level\or
249
                                                     \stepcounter{mpart}
250
                                                     \def\@@label{Part \Roman{mpart}}
251
                                                     \def\currentsectionlevel{part}
252
                                                     \or%
253
254
                                                     \stepcounter{mchapter}
255
                                                     \def\@@label{Chapter \arabic{mchapter}}
                                                     \def\currentsectionlevel{chapter}
256
                                                     \or
257
                                                     \stepcounter{msection}
258
                                                     \def\@@label{\if@part\arabic{mchapter}.\fi\arabic{msection}}
259
260
                                                     \def\currentsectionlevel{section}
261
                                                     \stepcounter{msubsection}
262
                                                     \def\@@label{\if@part\arabic{mchapter}.\fi\arabic{msection}.\arabic{msubsection}}
263
                                                     \def\currentsectionlevel{subsection}
264
265
                                                     \stepcounter{msubsubsection}
266
267
                                                     \def\@Qlabel{\if@part\arabic{mchapter}.\fi\arabic{msection}.\arabic{msubsection}.\arabic{
268
                                                     \def\currentsectionlevel{subsubsection}
269
270
                                                     \stepcounter{msubsubsection}
                                                     \label{$$ \tilde{\Omega}_{\alpha}: \ \tilde{\Omega}_{\alpha}.\ \tilde{\Omega}.\ \tilde{
271
                                                     \def\currentsectionlevel{subsubsubsection}
272
273
                                                     \fi% end ifcase
274
                                                     \@@label\sref@label@id\@@label
                                                     \quad #2%
275
                                         }%
276
                                          \vfill%
277
                                          \end{frame}%
278
                                           \fi %ifsectocframes
279
280
                             {\advance\section@level by -1}%
282 \fi% ifnotes
```

4.6 Miscellaneous

We set up a beamer template for theorems like ams style, but without a block environment.

```
283 \def\inserttheorembodyfont{\normalfont}
284 \defbeamertemplate{theorem begin}{miko}
285 {\inserttheoremheadfont\inserttheoremname\inserttheoremnumber
286 \ifx\inserttheoremaddition\@empty\else\ (\inserttheoremaddition)\fi%
287 \inserttheorempunctuation\inserttheorembodyfont\xspace}
288 \defbeamertemplate{theorem end}{miko}{}
and we set it as the default one.
289 \setbeamertemplate{theorems}[miko]
```

The following fixes an error I do not understand, this has something to do with beamer compatibility, which has similar definitions but only up to 1.

290 \expandafter\def\csname Parent2\endcsname{}

We need to disregard the columns macros introduced by the beamer class in the notes.

```
291 \in \%
                             \renewenvironment{columns}{%
292
                                          \par\noindent%
293
294
                                          \begin{minipage}%
                                          \slidewidth\centering\leavevmode%
295
296
                                         \end{minipage}\par\noindent%
297
                            }%
298
                             \newsavebox\columnbox%
299
                             \renewenvironment{column}[1]{%
300
                                          \begin{lrbox}{\columnbox}\begin{minipage}{#1}%
301
302
                                          \end{minipage}\end{lrbox}\usebox\columnbox%
303
304
                           }%
305 \fi%
306 \ightharpoonup 306 \ightha
                             \newenvironment{problems}{}{}%
307
308 \text{\ensuremath{\mbox{\sc s}}}
309
                        \excludecomment{problems}%
310 \fi%
_{311} \; \langle / \mathsf{package} \rangle
```

Change History

[Tanb]

VU.1		done by beamer.cis i	
Gener	cal: Initial Version 1	v0.9	
v0.2		General: basic options handling for	
Gener	cal: course notes back on	the frame environment in notes	
se	minar 1	mode 1	
v0.3		numbered sectocframes 1	
Gener	cal: changing to Jacobs logo . 1	this is almost done $\dots \dots 1$	
v0.4		v1.0	
Gener	cal: moving line-end-comment	General: adding \frameimage 1	
to	omdoc.dtx 1	v1.1	
re-l	pasing the whole thing on	General: moving MathHub support	
be	eamer 1	out to separate package 1	
v0.5		reinterpreting omgroup 1	
Gener	cal: eliminating	Removing the old title macros	
m	ytwocolumns, this is better	(use the regular ones instead) . 1	
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