

# 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.

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\*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  $\text{\TeX}$  and 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:<sup>1</sup>


<code>slides</code>	• The options <code>slidesnd</code> and <code>notesnotes</code> switch between slides mode and notes mode (see Section 2.2).
<code>a</code>	
<code>sectocframes</code>	• If the option <code>sectocframes</code> is given, then for the <code>omgroups</code> , special frames with the <code>omgroup</code> title (and number) are generated.
<code>showmeta</code>	• <code>showmeta</code> . If this is set, then the metadata keys are shown (see [Koh20b] for details and customization options).
<code>frameimages</code>	• If the option <code>frameimages</code> is set, then slide mode also shows the <code>\frameimage-</code>
<code>fiboxed</code>	generated frames. If also the <code>fiboxed</code> option is given, the slides are surrounded by a box.
<code>topsect</code>	• <code>topsect=&lt;sect&gt;</code> can be used to specify the top-level sectioning level; the default for <code>&lt;sect&gt;</code> is <code>section</code> .
<code>mh</code>	• The <code>mh</code> option turns on MathHub support; see [Koh20a].

### 2.2 Notes and Slides

`frame` 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

<sup>1</sup>EdNOTE: leaving out `noproblems` for the moment until we decide what to do with it.

course note fragments.<sup>1</sup>

 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 L<sup>A</sup>T<sub>E</sub>X becomes confused and throws error messages that are difficult to decipher.

```
\ifnotes\maketitle\else
\frame[noframenumbering]\maketitle\fi

\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}
...
```

**Example 1:** A typical Course Notes File

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

`\ifnotes` Note the use of the `\ifnotes` conditional, which allows different treatment between `notes` and `slides` mode – manually setting `\notesttrue` or `\notesfalse` is strongly discouraged however.

 We need to give the title frame the `noframenumbering` option so that the frame numbering is kept in sync between the slides and the course notes.

 The `beamer` class recommends not to use the `allowframebreaks` option on frames (even though it is very convenient). This holds even more in the `mikoslides` case: At least in conjunction with `\newpage`, frame numbering behaves funnily (we have tried to fix this, but who knows).

`\frameimage` 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 S<sup>T</sup>E<sub>X</sub>notes. In this case we can use `\frameimage[⟨opt⟩]{⟨path⟩}`, where `⟨opt⟩` are the options of `\includegraphics` from the `graphicx` package [CR99] and `⟨path⟩` is the file path (extension can be left off like in `\includegraphics`). We have added the `label`

<sup>1</sup>MK: it would be very nice, if we did not need this environment, and this should be possible in principle, but not without intensive L<sup>A</sup>T<sub>E</sub>X trickery. Hints to the author are welcome.

key that allows to give a frame label that can be referenced like a regular `beamer` frame.<sup>2</sup>


If we want to transclude a the contents of a file as a note, we can use the

```
\inputref* \inputref* macro: \inputref*{foo} is equivalent to
\begin{note}
  \inputref{foo}
\end{note}
```

There are some environments that tend to occur at the top-level of `note` environments. We make convenience versions of these: e.g. the `nomtext` environment is just an `omtext` inside a `note` environment (but looks nicer in the source, since it avoids one level of source indenting). Similarly, we have the `nomgroup` environment.

## 2.3 Header and Footer Lines

## 2.4 Colors and Highlighting

`\textwarning` The `\textwarning` macro generates a warning sign: 

## 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 `TeX`GitHub 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

<sup>2</sup>EDNOTE: MK: the `hyperref` link does not seem to work yet. I wonder why but do not have the time to fix it.

not in notes mode, since the `beamer` package has its own (overlay-aware) theorem environments.

```

1 <*cls>
2 \RequirePackage{stex-master}
3 \SetupKeyvalOptions{family=mks@cls,prefix=mks@cls@}
4 \DeclareStringOption[article]{class}
5 \AddToKeyvalOption*{class}{\PassOptionsToClass{class=\mks@cls@class}{omdoc}
6   \ifdefstring{\mks@cls@class}{book}{\PassOptionsToPackage{defaulttopsect=part}{mikoslides}}{}}
7   \ifdefstring{\mks@cls@class}{report}{\PassOptionsToPackage{defaulttopsect=part}{mikoslides}}}}
8 \DeclareBoolOption{notes}
9 \DeclareComplementaryOption{slides}{notes}
10 \DeclareDefaultOption{%
11   \PassOptionsToClass{\CurrentOption}{omdoc}
12   \PassOptionsToClass{\CurrentOption}{beamer}
13   \PassOptionsToPackage{\CurrentOption}{mikoslides}}
14 \ProcessKeyvalOptions{mks@cls}
15 </cls>

```

now we do the same for the `mikoslides` package.

```

16 <*package>
17 \SetupKeyvalOptions{family=mks@sty,prefix=mks@sty@}
18 \DeclareStringOption{topsect}
19 \DeclareStringOption{defaulttopsect}
20 \DeclareBoolOption{mh}
21 \newif\ifnotes\notesttrue
22 \DeclareBoolOption{notes}
23 \AddToKeyvalOption*{notes}{\notesttrue\PassOptionsToPackage{notes}{statements}}
24 \DeclareComplementaryOption{slides}{notes}
25 \AddToKeyvalOption*{slides}{\notestfalse\PassOptionsToPackage{nontheorem}{statements}}
26 \DeclareBoolOption{sectocframes}
27 \DeclareBoolOption{frameimages}
28 \DeclareBoolOption{fiboxed}
29 \DeclareBoolOption{titlepage}
30 \DeclareBoolOption{noproblems}
31 \DeclareBoolOption{defindex}
32 \ProcessKeyvalOptions{mks@sty}

```

we give ourselves a macro `\@@topsect` that needs only be evaluated once, so that the `\ifdefstring` conditionals work below.

```

33 \ifx\mks@sty@topsect\@empty\edef\@@topsect{\mks@sty@defaulttopsect}
34 \else\edef\@@topsect{\mks@sty@topsect}\fi
35 </package>

```

Depending on the options, we either load the `article`-based `omdoc` or the `beamer` class (and set some counters).

```

36 <*cls>
37 \ifmks@cls@notes
38   \LoadClass{omdoc}
39 \else
40   \LoadClass[10pt,notheorems,xcolor={dvipsnames,svgnames}]{beamer}

```

```

41 \newcounter{Item}
42 \newcounter{paragraph}
43 \newcounter{subparagraph}
44 \newcounter{Hfootnote}
45 \fi

```

now it only remains to load the `mikoslides` package that does all the rest.

```

46 \RequirePackage{mikoslides}
47 \</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 `STEX` packages. The first batch of packages we want are loaded on `mikoslides.sty`. These are the general ones, we will load the `STEX`-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.

```

48 <*package>
49 \ifmks@sty@notes
50 \RequirePackage{a4wide}
51 \RequirePackage{marginnote}
52 \RequirePackage[dvipsnames,svgnames]{xcolor}
53 \if@latexml\else\RequirePackage{mdframed}\fi
54 \RequirePackage[noxcolor,noamsthm]{beamerarticle}
55 \fi
56 \RequirePackage{etoolbox}
57 \RequirePackage{amssymb}
58 \RequirePackage{amsmath}
59 \RequirePackage{comment}
60 \RequirePackage{textcomp}
61 \RequirePackage{url}
62 \RequirePackage{graphicx}
63 \RequirePackage{pgf}
64 \ifmks@sty@notes
65 \RequirePackage[bookmarks,bookmarksopen,bookmarksnumbered,breaklinks,hidelinks]{hyperref}
66 \fi

```

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

```

67 \RequirePackage{metakeys}

```

## 4.2 Notes and Slides

For the lecture notes cases, we also provide the `\usetheme` macro that would otherwise come from the `beamer` class. While the latter loads `beamertheme<theme>.sty`, the notes version loads `beamernotestheme<theme>.sty`.<sup>3</sup>

```

68 \ifmks@sty@notes

```

---

<sup>3</sup>EDNOTE: MK: This is not ideal, but I am not sure that I want to be able to provide the full theme functionality there.

```

69 \renewcommand\usetheme[2] [] {\usepackage[#1]{beamernotestheme#2}}
70 \fi

```

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

```

71 \newcounter{slide}
72 \newlength{\slidewidth}\setlength{\slidewidth}{13.5cm}
73 \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.

```

74 \ifmks@sty@notes%
75   \renewenvironment{note}{\ignorespaces}{}%
76 \else%
77   \excludecomment{note}%
78 \fi%

```

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.

```

79 \ifmks@sty@notes
80   \newlength{\slideframewidth}
81   \setlength{\slideframewidth}{1.5pt}

```

**frame** We first define the keys.

```

82 \addmetakey{frame}{label}
83 \addmetakey[yes]{frame}{allowframebreaks}
84 \addmetakey{frame}{allowdisplaybreaks}
85 \addmetakey[yes]{frame}{fragile}
86 \addmetakey[yes]{frame}{shrink}
87 \addmetakey[yes]{frame}{squeeze}
88 \addmetakey[yes]{frame}{t}

```

We define the environment, read them, and construct the slide number and label.

```

89 \renewenvironment{frame}[1] [] {%
90   \metasetkeys{frame}{#1}%
91   \sffamily%
92   \stepcounter{slide}%
93   \def\@currentlabel{\theslide}%
94   \ifx\frame@label\@empty%
95     \else%
96       \label{\frame@label}%
97   \fi%

```

We redefine the `itemize` environment so that it looks more like the one in `beamer`.

```

98   \def\itemize@level{outer}%
99   \def\itemize@outer{outer}%
100   \def\itemize@inner{inner}%
101   \renewcommand\newpage{\addtocounter{framenumber}{1}}%

```

```

102 \renewcommand\metakeys@show@keys[2]{\marginnote{\scriptsize ##2}}%
103 \renewenvironment{itemize}{%
104 \ifx\itemize@level\itemize@outer%
105 \def\itemize@label{$\rhd$}%
106 \fi%
107 \ifx\itemize@level\itemize@inner%
108 \def\itemize@label{$\scriptstyle\rhd$}%
109 \fi%
110 \begin{list}%
111 {\itemize@label}%
112 {\setlength{\labelsep}{.3em}%
113 \setlength{\labelwidth}{.5em}%
114 \setlength{\leftmargin}{1.5em}%
115 }%
116 \edef\itemize@level{\itemize@inner}%
117 }{%
118 \end{list}%
119 }%

```

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

```

120 \begin{mdframed}[linewidth=\slideframewidth,skipabove=1ex,skipbelow=1ex,userdefinedwidth=\s
121 ]{%
122 \medskip\miko@slidelabel\end{mdframed}%
123 }%

```

Now, we need to redefine the `frametitle` (we are still in course notes mode).

`\frametitle`

```

124 \renewcommand{\frametitle}[1]{\Large\bf\sf\color{blue}{#1}}\medskip}%
125 \fi %ifmks@sty@notes

```

`\frameimage`

We have to make sure that the width is overwritten, for that we check the `\Gin@ewidth` macro from the `graphicx` package. We also add the `label` key.

```

126 \define@key{Gin}{label}{\def\currentlabel{\arabic{slide}}\label{#1}}
127 \newrobustcmd\frameimage[2][{}]{%
128 \stepcounter{slide}%
129 \ifmks@sty@frameimages%
130 \def\Gin@ewidth{}\setkeys{Gin}{#1}%
131 \ifmks@sty@notes\else\vfill\fi%
132 \begin{center}
133 \ifmks@sty@fiboxed%
134 \fbox{\ifx\Gin@ewidth\@empty\includegraphics[width=\slidewidth,#1]{#2}\else\mygraphics[
135 \else
136 \ifx\Gin@ewidth\@empty\includegraphics[width=\slidewidth,#1]{#2}\else\mygraphics[#1]{#2}
137 \fi% ifmks@sty@fiboxed
138 \end{center}
139 \par\strut\hfill{\footnotesize Slide \arabic{slide}}}%
140 \ifmks@sty@notes\else\vfill\fi%
141 \fi} % ifmks@sty@frameimages

```



```

\pause 4
142 \ifmks@sty@notes\newcommand\pause{}\fi

nomtext
143 \ifmks@sty@notes\newenvironment{nomtext}[1] [] {\begin{omtext}[#1]}\end{omtext}}%
144 \else\excludecomment{nomtext}\fi%

nomgroup
145 \ifmks@sty@notes\newenvironment{nomgroup}[2] [] {\begin{omgroup}[#1]{#2}}\end{omgroup}}%
146 \else\excludecomment{nomgroup}\fi%

```

### 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  $\text{\LaTeX}$  logo. Customization can be done by `\setslidelogo{<logo name>}`.

```

147 \newlength{\slidelogoheight}
148 \ifmks@sty@notes%
149   \setlength{\slidelogoheight}{.4cm}%
150 \else%
151   \setlength{\slidelogoheight}{1cm}%
152 \fi%
153 \newsavebox{\slidelogo}%
154 \sbox{\slidelogo}{\sTeX}%
155 \newrobustcmd{\setslidelogo}[1]{%
156   \sbox{\slidelogo}{\includegraphics[height=\slidelogoheight]{#1}}%
157 }%

```

`\setsource` `\source` stores the writer's name. By default it is *Michael Kohlhasse* since he is the main user and designer of this package. `\setsource{<name>}` can change the writer's name.

```

158 \def\source{Michael Kohlhasse}% customize locally
159 \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. `\setlicensing[<url>]{<logo name>}` is used for customization, where `<url>` is optional.

```

160 \def\copyrightnotice{\footnotesize\copyright:\hspace{.3ex}{\source}}%
161 \newsavebox{\cclogo}%
162 \sbox{\cclogo}{\includegraphics[height=\slidelogoheight]{cc_somerights}}%
163 \newif\ifcchref\cchreffalse%

```

---

<sup>4</sup>EdNOTE: MK: fake it in notes mode for now

```

164 \AtBeginDocument{%
165   \@ifpackageloaded{hyperref}{\cchreftrue}{\cchreffalse}
166 }%
167 \def\licensing{%
168   \ifcchref%
169     \href{http://creativecommons.org/licenses/by-sa/2.5/}{\usebox{\cclogo}}%
170   \else%
171     {\usebox{\cclogo}}%
172   \fi%
173 }%
174 \newrobustcmd{\setlicensing}[2][{}]{%
175   \def\@url{#1}%
176   \sbox{\cclogo}{\includegraphics[height=\slidelogoheight]{#2}}%
177   \ifx\@url\@empty%
178     \def\licensing{{\usebox{\cclogo}}}%
179   \else%
180     \def\licensing{%
181       \ifcchref%
182         \href{#1}{\usebox{\cclogo}}%
183       \else%
184         {\usebox{\cclogo}}%
185       \fi%
186     }%
187   \fi%
188 }%

```

EdN:5

`\slidelabel` Now, we set up the slide label for the `article` mode.<sup>5</sup>

```

189 \newrobustcmd\miko@slidelabel{%
190   \vbox to \slidelogoheight{%
191     \vss\hbox to \slidewidth%
192       {\licensing\hfill\copyrightnotice\hfill\arabic{slide}\hfill\usebox{\slidelogo}}%
193   }%
194 }%

```

## 4.4 Colors and Highlighting

We first specify sans serif fonts as the default.

```
195 \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 do is to adapt the green so that it is dark enough for most beamers

```

196 \AtBeginDocument{%
197   \definecolor{green}{rgb}{0,.5,0}%
198   \definecolor{purple}{cmyk}{.3,1,0,.17}%
199 }%

```

---

<sup>5</sup>EDNOTE: see that we can use the themes for the slides some day. This is all fake.

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`.

```
200 % \def\STpresent#1{\textcolor{blue}{#1}}
201 \def\defemph#1{{\textcolor{magenta}{#1}}}
202 \def\termemph#1{{\textcolor{cyan}{#1}}}
203 \def\notemph#1{{\textcolor{magenta}{#1}}}
204 \def\stDMemph#1{{\textcolor{blue}{#1}}}
205 \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.

```
206 \pgfdeclareimage[width=.8em]{miko@small@dbend}{dangerous-bend}
207 \def\smalltextwarning{%
208   \pgfuseimage{miko@small@dbend}%
209   \xspace%
210 }%
211 \pgfdeclareimage[width=1.2em]{miko@dbend}{dangerous-bend}
212 \newrobustcmd\textwarning{%
213   \raisebox{-.05cm}{\pgfuseimage{miko@dbend}}%
214   \xspace%
215 }%
216 \pgfdeclareimage[width=2.5em]{miko@big@dbend}{dangerous-bend}%
217 \newrobustcmd\bigtextwarning{%
218   \raisebox{-.05cm}{\pgfuseimage{miko@big@dbend}}%
219   \xspace%
220 }%
221 \newrobustcmd\putgraphicsat[3]{%
222   \begin{picture}(0,0)\put(#1){\includegraphics[#2]{#3}}\end{picture}%
223 }%
224 \newrobustcmd\putat[2]{%
225   \begin{picture}(0,0)\put(#1){#2}\end{picture}%
226 }%
```

## 4.5 Sectioning

If the `sectocframes` option is set, then we make section frames. We first define counters for `part` and `chapter`, which `beamer.cls` does not have and we make the `section` counter which it does dependent on `chapter`.

```
227 \ifmks@sty@sectocframes%
228 \ifdefstring\@@topsect{part}{%
229   \newcounter{chapter}\counterwithin*{section}{chapter}}
230 {\ifdefstring\@@topsect{chapter}{\newcounter{chapter}\counterwithin*{section}{chapter}}}{%}
231 \fi% ifsectocframes
```

Now that we have defined the counters, we can load the  $\text{\LaTeX}$ -specific packages (in particular `statements` that needs these counters).

```

232 \RequirePackage{stex-master}
233 \RequirePackage{tikzinput}

\section@level    Finally, we set the \section@level macro that governs sectioning.

234 \section@level=2
235 \ifdefstring{\@@topsect}{part}
236 {\section@level=0%
237   \def\thesection{\arabic{chapter}.\arabic{section}}%
238   \def\part@prefix{\arabic{chapter}.}}{}
239 \ifdefstring{\@@topsect}{chapter}
240 {\section@level=1%
241   \def\thesection{\arabic{chapter}.\arabic{section}}%
242   \def\part@prefix{\arabic{chapter}.}}{}
243 \ifmks@sty@notes\else% only in slides
244 \renewenvironment{omgroup}[2][{}]{%
245   \metasetkeys{omgroup}{#1}\sref@target%
246   \advance\section@level by 1%
247   \advance\omgroup@level by 1%
248   \ifmks@sty@sectocframes%
249   \stepcounter{slide}
250   \begin{frame}[noframenumbering]%
251   \vfill\Large\centering%
252   \red{%
253     \ifcase\section@level\or
254     \stepcounter{part}
255     \def\@@label{\omdoc@part@kw~\Roman{part}}
256     \def\currentsectionlevel{\omdoc@part@kw}
257     \or%
258     \stepcounter{chapter}
259     \def\@@label{\omdoc@chapter@kw~\arabic{chapter}}
260     \def\currentsectionlevel{\omdoc@chapter@kw}
261     \or
262     \stepcounter{section}
263     \def\@@label{\part@prefix\arabic{section}}
264     \def\currentsectionlevel{\omdoc@section@kw}
265     \or
266     \stepcounter{subsection}
267     \def\@@label{\part@prefix\arabic{section}.\arabic{subsection}}
268     \def\currentsectionlevel{\omdoc@subsection@kw}
269     \or
270     \stepcounter{subsubsection}
271     \def\@@label{\part@prefix\arabic{section}.\arabic{subsection}.\arabic{subsubsection}}
272     \def\currentsectionlevel{\omdoc@subsubsection@kw}
273     \or
274     \stepcounter{mparagraph}
275     \def\@@label{\part@prefix\arabic{section}.\arabic{msubsection}.\arabic{subsubsection}.\arab
276     \def\currentsectionlevel{\omdoc@paragraph@kw}
277     \fi% end ifcase
278     \@@label\sref@label@id\@@label
279     \quad #2%

```

```

280 }%
281 \vfill%
282 \end{frame}%
283 \fi %ifmks@sty@sectocframes
284 }
285 {\advance\section@level by -1}%
286 \fi% ifmks@sty@notes

\inputref@*skip We customize the hooks for in \inputref.
287 \def\inputref@preskip{\smallskip}
288 \def\inputref@postskip{\medskip}

\inputref*
289 \let\orig@inputref\inputref
290 \def\inputref{\@ifstar\ninputref\orig@inputref}
291 \newcommand\ninputref[2][]{\ifmks@sty@notes\orig@inputref[#1]{#2}\fi}

```

## 4.6 Miscellaneous

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

```

292 \def\inserttheorembodyfont{\normalfont}
293 \ifmks@sty@notes\else% only in slides
294 \defbeamertemplate{theorem begin}{miko}
295 {\inserttheoremheadfont\inserttheoremname\inserttheoremnumber
296 \ifx\inserttheoremaddition\@empty\else\ (\inserttheoremaddition)\fi%
297 \inserttheorempunctuation\inserttheorembodyfont\xspace}
298 \defbeamertemplate{theorem end}{miko}{}

```

and we set it as the default one.

```

299 \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.

```

300 \expandafter\def\csname Parent2\endcsname{}
301 \fi% ifmks@sty@notes
302 \ifmks@sty@notes%
303 \renewenvironment{columns}[1][]{%
304 \par\noindent%
305 \begin{minipage}%
306 \slidewidth\centering\leavevmode%
307 }{%
308 \end{minipage}\par\noindent%
309 }%
310 \newsavebox\columnbox%
311 \renewenvironment<>{column}[2][]{%
312 \begin{lrbox}{\columnbox}\begin{minipage}{#2}%
313 }{%
314 \end{minipage}\end{lrbox}\usebox\columnbox%
315 }%

```

```

316 \fi% ifmks@sty@notes

\mhinputref*
317 \let\orig@mhinputref\mhinputref
318 \def\mhinputref{\@ifstar\nmhinputref\orig@mhinputref}
319 \newcommand\nmhinputref[2] [] {\ifnotes\orig@mhinputref[#1]{#2}\fi}

320 \ifmks@sty@noproblems%
321   \newenvironment{problems}{}{}%
322 \else%
323   \excludecomment{problems}%
324 \fi%
325 \</package>

```

## Change History

v0.1		mode . . . . .	1
General: Initial Version . . . . .	1	numbered sectocframes . . . . .	1
v0.2		this is almost done . . . . .	1
General: course notes back on seminar . . . . .	1	v1.0	
v0.3		General: adding <code>\frameimage</code> . . . .	1
General: changing to Jacobs logo . .	1	v1.1	
v0.4		General: moving MathHub support out to separate package . . . . .	1
General: moving line-end-comment to <code>omdoc.dtx</code> . . . . .	1	reinterpreting <code>omgroup</code> . . . . .	1
re-basing the whole thing on beamer . . . . .	1	Removing the old title macros (use the regular ones instead) . .	1
v0.5		v1.2	
General: eliminating <code>mytwocolumns</code> , this is better done by <code>beamer.cls</code> . . . . .	1	General: changed to <code>keyval</code> class/package options, allowed arbitrary classes . . . . .	1
v0.9		v1.3	
General: basic options handling for the <code>frame</code> environment in notes		General: reusing the sectioning counters of beamer . . . . .	1

## References

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- [Koh20a] Michael Kohlhas. *MathHub Support for s $\mathrm{T}_{\mathrm{E}}\mathrm{X}$* . Tech. rep. 2020. URL: <https://github.com/sLaTeX/sTeX/raw/master/sty/mathhub/mathhub.pdf>.
- [Koh20b] Michael Kohlhas. *metakeys.sty: A generic framework for extensible Metadata in  $\mathcal{L}\mathrm{T}_{\mathrm{E}}\mathrm{X}$* . Tech. rep. 2020. URL: <https://github.com/sLaTeX/sTeX/raw/master/sty/metakeys/metakeys.pdf>.
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