Modular Casebook Management: modbook.sty

Charles Duan cduan@wcl.american.edu

Version v1.0.2, 2024/01/09

Contents

1	Int	roduction	2
2	Installation and Dependencies Modules		2 2
3			
	3.1	Directory Structure	3
	3.2	Importing Modules	3
	3.3	Cross-Reference Expectations	4
4	Formatting Content 5		
	4.1	Readings	5
	4.2	Statute and Question Environments	6
	4.3	Fonts	6
	4.4	Footnotes	7
	4.5	Graphics	8
	4.6	Multiple Choice Questions	9
5	Implementation 9		
	5.1	Finding Module Files	9
	5.2	Tracking the Current Module and File	9
	5.3	File Inclusion	10
	5.4	Cross-Reference Checking	10
	5.5	Fonts	10
	5.6	Document-Level Structure	11
6	Opt	tions	11
7	Supporting Packages		
	7.1	Deferrals	11
	7.2	Multiple Choice Questions	12

1 Introduction

This is a package for managing the compilation of a textbook made up of several interdependent modules. The purpose of this package is:

- To manage cross-dependencies between parts of the textbook. For example, one part may reference a case that should have been already read in the book, so it should be possible to raise a warning if that case hasn't already been included.
- To provide formatting for standard parts of a casebook.
- To permit local alterations to casebook files. This requires devising a directory structure for local files, such that including a file searches first for the local copy and then for default version.
- To provide ancillary packages for deferred content and multiple choice question formatting, described below, which may be used independently of this package.

The general workflow model assumed by this package is as follows. Textbooks are to be compiled out of cases, articles, and other materials described in this documentation as *readings*. One or more *editors* compile, edit, and annotate these readings, and perhaps write editorial material of their own. The editors arrange their work into *modules*, each of which contains an outline and content files including readings. A *compiler* then receives modules and arranges them into a book. The compiler may also wish to make changes to the editors' work.

2 Installation and Dependencies

The package uses hyperref for internal cross-references, and hicite for URL formatting and a few other things. It also requires the graphicx and etoolbox packages.

Because hicite is included, you may use it for managing citations within the case-book as well, although this is optional.

3 Modules

This package uses a rigorous file hierarchy to manage the work of editors and compilers. At the base of the hierarchy are *repositories* of content. Generally an editor (or team of editors) would be responsible for a single repository. Within each repository are *modules* contained in subfolders.

3.1 Directory Structure

Modules contain content files consistent with the following rules:

- $\langle module \rangle / \langle module \rangle$.tex: The default outline of the module. This file should contain only section headings, question environments, and \import commands.
- $\langle module \rangle / intro-\langle module \rangle$.tex: The introductory text for a module should by convention have this name, making it convenient to determine whether a module has been imported into a book.
- \(\langle \text{module} \)/intro-\(\langle \text{filename} \).tex: A file containing editorial or introductory text (that is, text not part of a case or other reading).
- \(\langle \module \rangle \narrative \langle filename \rangle \text{.tex:}\) The same as an intro- file. (Starting a filename with narrative- can be used to indicate that the text is intended as a full standalone section, rather than as an introduction to another reading.)
- \(\langle \module \rangle / \langle filename \rangle \text{qs.tex:}\) A list of questions and notes that may follow a reading. By convention, \(\langle filename \rangle \) corresponds to the file to which the questions apply. A question file will be included inside a list-like environment, so items should begin with \item.
- \(\langle \text{module} \) \(\langle \text{filename} \) . tex: Any other filename is assumed to be a reading from an external source (which should start with \reading).

\RepositoryPath $\{\langle path,...\rangle\}$

Provides a list of repository directories. The package will sequentially search through each repository given in the argument, which should be a comma-separated list, until it finds the module file required. The default path is local, base.

3.2 Importing Modules

\import \langle name \rangle

The \import command is the key command for incorporating content files into a casebook. It is used both in the overall book to import modules, and in the module files (primarily $\langle module \rangle / \langle module \rangle$. tex) to import content for each module.

The macro takes one argument, which need not be surrounded by braces, similar to \input. The argument may be:

1. A content file without a module name. The file is assumed to be within the last-\imported module.

¹It is generally inadvisable to check if the $\langle module \rangle / \langle module \rangle$. tex file itself has been imported, because compilers will often not use the default outline when selecting parts of modules.

- 2. A content file with a module name ($\langle module \rangle / \langle filename \rangle$).
- 3. A module name alone, in which case $\langle module \rangle / \langle module \rangle$.tex is used.

\ModuleEndHook When importing a complete module, the contents of this macro will be executed at the end of reading the module. By default, this is used to execute \showquestions, but other features may be implemented.

3.3 Cross-Reference Expectations

Content in modules will often cross-reference material in other modules. But if the compiler can select and reorder the modules, these cross-references will become unanchored. The package thus provides several macros to manage cross-references. Editors should insert these macros into their module files as they write, enabling their modules and files to be rearranged without creating contextual problems.

Expectations are defined based on filenames, and are met if a corresponding file has been \imported into the book at the correct time. Filenames may be given with the module name or without. (The best practice, then, is to ensure that filenames are unique even across different modules.)

Failures of any of the expectation assertions below will result in a warning and an undefined-reference warning at the end of document compilation.

```
\having \{\langle filename \rangle\} \{\langle before \rangle\} \{\langle after \rangle\} \{\langle none \rangle\}
```

Chooses a text depending on the inclusion status of $\langle filename \rangle$. If the file has already been $\langle imported \rangle$, then $\langle before \rangle$ is used. If the file is imported later, then $\langle after \rangle$ is used. If the file is never imported, then $\langle none \rangle$ is used.

This macro best enables flexibility for compilers, and should be used in preference to the other expectation assertion macros to the extent possible.

```
\expected \{\langle filename \rangle\}
```

Tests whether a file has been included already, and produces a warning if not.

```
\expecting \{\langle filename \rangle\}
```

Tests whether a file will later be included. The test fails if the file is never included, or if the file was included before this command was called. Because it relies on the <code>.aux</code> file, this command may produce spurious warnings that go away on subsequent compilations.

```
\expectnext \{\langle filename \rangle\}
```

Indicates that the next imported file should match this filename. This is used, for example, at the end of an introductory text intended to precede a reading.

4 Formatting Content

Casebooks generally use only a few types of materials for readings, and also include common types of editorial content. The macros here help with formatting these elements consistently.

4.1 Readings

These commands are useful for formatting a reading from a case or other materials. Typical usage is as follows:

```
\readingnote{Decided on the same day as Bolling v. Sharpe, 347 U.S. 497 (1954).} \reading{Brown v. Board of Education} \readingcite{347 U.S. 483 (1954)}
```

 $\sigma \$ opinion \textsc{Mr. Chief Justice Warren} delivered the opinion of the Court.

These cases come to us from the States of Kansas, South Carolina, Virginia, and Delaware...

```
\readingnote \{\langle note\text{-}text \rangle\}
```

Adds a footnote to the reading's heading. This command *must come before* the **\reading** command.

```
\reading [\langle short-name \rangle] \{\langle name \rangle\}
```

Creates a section heading starting a reading. The title of the reading is given as $\langle name \rangle$, and a short Table of Contents version may be given as $\langle short-name \rangle$.

As a convenience, if $\langle name \rangle$ starts with $In\ re$ or contains v., the name (and short name) will automatically be italicized for being a case name.

Sectioning and Table of Contents format for readings.

```
\readingcite \{\langle citation \rangle\}
```

Produces a second heading line below a \reading entry, that gives the citation for the reading text.

```
\opinion \{\langle text \rangle\} \par
```

Formats the line where the opinion author is given. The argument need not be in braces; it is terminated at the end of the paragraph.

```
\readinghead [\langle level \rangle] \{\langle text \rangle\}
```

Creates a heading inside a reading. The $\langle level \rangle$ is a heading level, by default 1.

```
\label{eq:level} $$ \end{area} \end{area} \end{area} \end{area} $$ \en
```

Provides font and formatting $\langle commands \rangle$ associated with a heading $\langle level \rangle$ for \readinghead. The commands will be placed inside a group, and the text to be formatted will be given as an argument to the commands.

By default, reading heading level 1 is bold, and level 2 is bold italic.

4.2 Statute and Question Environments

statute Formats text for an indented statute's subsections. Statutes are typically formatted as indented paragraphs, with higher levels of indentation pushing the right margin but retaining the indentation structure. (Statutes are typically not formatted with hanging indentation.)

This environment provides for such indentation, for the second and higher levels. (The first level is simply normal paragraph indentation and thus requires no environment.) Each paragraph should be preceded by an \item command.

(This environment is currently not very well tested and ought to be improved.)

```
questions [\langle title \rangle]
```

Creates an environment for notes and questions. The title of the environment is by default "Notes and Questions," and may be changed with the optional argument. If the optional argument is empty, no heading is produced.

The contents of the environment should be a list with \item commands.

4.3 Fonts

Two fonts are used throughout the casebook, one for editorial materials and one for readings. The following rules are used to distinguish the two:

- Files starting with intro- or narrative-, or files ending with -qs, are editorial material; anything else is a reading.
- Block quotes are always assumed to be readings.
- Footnotes follow their own rules, described below.

\edfont The fonts may also be manually selected, with the commands \edfont (for edi-\readingfont

torial material) and \readingfont (for readings). Note that the \readings command does not apply the reading font. This is because some editors like to include Notes or other materials with a reading-like heading. Such material should be included in an editorially-named file (narrative- $\langle file \rangle$.tex), and it will be set in the editorial font.

\EditorialFont $\{\langle font\text{-}commands \rangle\}$

Executes $\langle font\text{-}commands \rangle$ for any editorial material. By default, editorial material is set in a sans serif font.

$\ReadingFont {\langle font-commands \rangle}$

Executes $\langle font\text{-}commands \rangle$ for any reading material. By default, reading material is set in a serif font.

\ifedmaterial A conditional for determining whether the current text is a reading or editorial material.

```
\HeaderFonts \{\langle pagenum \rangle\} \{\langle left \rangle\} \{\langle right \rangle\}
```

Sets the fonts for the running header. As described below in the Implementation section, the running header consists of a chapter name on the left and the current reading on the right. By default, sans serif fonts are used, with the chapter set in small caps.

```
\SectionFont \{\langle font \rangle\}
```

Sets the fonts for section headings. By default, the roman font is used regardless of editorial or reading context. The $\langle font \rangle$ should require no arguments.

4.4 Footnotes

In editorial material, footnotes are assumed to also be editorial material. Small changes to the \footnote command must be made to accommodate this.

Footnotes in readings are more complex. Sometimes the footnote is from the original reading, and should retain the original footnote number. In other cases, the reading's editor adds an explanatory footnote. Editorial footnotes are identified with a different footnote symbol, the editorial font, and a notation. Given these two types of footnotes, the usual \footnote command is disallowed in reading text, in favor of two separate commands described below.

As a convenience, all footnote commands add anbefore them, so spaces before the footnote are ignored.

```
\readingfootnote \{\langle number \rangle\}\ \{\langle note-text \rangle\}
```

Creates a footnote from the original reading in the text. The footnote

\edfootnote $\{\langle note\text{-}text \rangle\}$

Creates a footnote by the editors. Symbolic footnote marks are used, and a separate counter edfnct is created to track the marks.

\EditorMark $\{\langle note-text \rangle\}$

Transforms $\langle note\text{-}text \rangle$ with an indication that the text originated from an editor. By default, this just appends "—Eds.", and the macro can be redefined as desired.

\footnote $\{\langle note\text{-}text \rangle\}$

Regular footnotes can only be used in editorial material, and are editorial material themselves.

4.5 Graphics

The following commands are provided for inclusion of graphics. Graphics files may be located either in a module directory or in a separate images directory in a repository. The extension .png, .jpg, or .pdf may be omitted from the filename.

 $\userbase [\langle options \rangle] \{\langle filename \rangle\}$

Include a graphic in the current position inline with text. The $\langle options \rangle$ are those options available for the \includegraphics command of the graphicx package.

By default, graphics take up a maximum of 30% of the text height and 80% of the text width. The optional argument to any of the graphics inclusion macros can change that.

\heregraphic $[\langle options \rangle]$ {\langle filename \rangle}

Centers the graphic at the current position in the text.

 $\continuous [\langle options \rangle] \{\langle filename \rangle\} \{\langle caption \rangle\}$

Places the graphic in a floating figure with a caption. A cross-reference label of $f:\langle filename \rangle$ is automatically attached to the figure number.

Because captions are always editorial material (unless specified otherwise), they are displayed in the editorial font.

 $\GraphicsDirectory \{\langle directory \rangle\}$

Specifies the directory within repositories where images may be found. By default, it is images.

4.6 Multiple Choice Questions

The multichoice question is included in this package, with question deferral turned on. This enables adding multiple choice questions throughout the text, with all the questions for a chapter being displayed at the end for example.

Questions will be displayed in a manner consistent with the rest of the book.

5 Implementation

The remaining text describes internal operations of the package, and need not be read unless the package is doing something unexpected and you want to fix it.

5.1 Finding Module Files

```
\verb|\mbk@import@newmod {|} {| (module |) } {| (filename |) }
```

Imports where a module name is given.

```
\mbox{mbk@import@nomod } {\langle filename \rangle}
```

Imports where no module name is given.

```
\mbk@try@modfile \{\langle module \rangle\}\ \{\langle filename \rangle\}
```

Tries to find a module file, across all the repositories.

5.2 Tracking the Current Module and File

Module imports are tracked via a stack, so it is always possible to know which module is in current use. (The normal TeX grouping mechanism cannot be used, because otherwise content would be included inside groups.)

\mbk@module@cur The current module.

\mbk@current@file The current file.

\mbk@module@stack The stack of module inclusions. The list is composed of pairs of groups, the first being the module and the second being the file. An empty module/file pair is included at the end.

```
\mbk@push \{\langle module \rangle\}\ \{\langle file \rangle\}
```

Push a module onto the stack.

\mbk@module@pop Delete a module from the stack. If one tries to pop the last module from the stack, this macro will generate an argument error (there won't be enough commas).

5.3 File Inclusion

Tries including a file among several. Several \mbk@try@file commands may be included in sequence, terminated with \mbk@try@file@end. If the file exists, then {\content\} is inserted and any other material up to \mbk@try@file@end will be discarded.

 $\verb|\mbk@try@file@default {||} $$ \mathbf{(}content|)$ \mathbf{(}bk@try@file@end)$$

What to do if no \mbk@try@file commands succeed. All material up to \mbk@try@file@end is used.

5.4 Cross-Reference Checking

```
\verb|\mbk@register@file {| \langle module \rangle|} {| \langle filename \rangle|}
```

To implement cross-reference checking, every file is "registered" at the time it is imported. The registration confirms any assertions that can be determined upon registration, and records information for further checking.

\mbk@register@pre $\{\langle filename \rangle\}$

Marks that a file will be included at a later time.

5.5 Fonts

\@defaultfamilyhook This code hooks into the LATEX command that resets the default font, forcing editorial or reading font selection every time the font is reset.

 $\mbox{mbk@formatting@for } {\langle filename \rangle}$

Selects the font based on the filename.

quotation Redefine the quote and quotation environments to use the reading font.
quote

5.6 Document-Level Structure

The introduction of readings as a document section type requires some modifications to the usual IATEX document structure.

First, the package creates a new running head format, where the chapter name is placed on the left and the current reading is placed on the right.

Page numbers on plain-styled pages (e.g., beginnings of chapters) are also modified accordingly.

When a chapter ends, a blank page may be inserted on the left side. Ensure that this page has no header.

Readings are section level 4, and paragraphs/subparagraphs are placed below that level. Numbering continues up through level 3 (i.e., readings are not numbered), and the Table of Contents includes readings.

6 Options

With the option readingnotenums, numbering will not contain chapter numbers and will be consecutive for each block of notes (as is traditional in casebooks).

With the option chapternotenums, notes will have the form $\langle chapter \rangle.\langle note \rangle$ and will run consecutively through the chapter. So if the first reading of chapter 7 has four notes, then the first note of the second reading will be 7.5. This is probably better for cross-referencing notes throughout the book, since the notes are uniquely identified.

By default, readingnotenums is used.

7 Supporting Packages

7.1 Deferrals

Provides functions for deferring certain text to a later point in a document, with specified template formatting.

With this package, one defines one or more "deferral classes" by name. The user adds items to a deferral class, and then may use the deferral class by printing it out. Upon printing, the items of the deferral class can be altered by a peritem macro, and the deferral class can surround all the items with text such as environment \begin and \end commands.

```
\NewDeferral \{\langle class-name \rangle\}
```

Creates a new deferred text class. #1 is the name of the class.

```
\DeferralSurround \{\langle class \rangle\} \{\langle pre-text \rangle\} \{\langle post-text \rangle\}
```

Sets the text to be placed before and after the deferred text class when it is displayed.

```
\DeferralMacro \{\langle class \rangle\} \{\langle macro-def \rangle\}
```

Defines a macro for processing the deferred matter. The $\langle macro-def \rangle$ is the macro definition, which should use "#1" to reference each deferred item.

```
\deferral \{\langle class \rangle\} \{\langle text \rangle\}
```

Adds an item $\langle text \rangle$ to the deferral class.

```
\UseDeferral \{\langle class \rangle\}
```

Uses the deferred matter. This will (1) print the class pre-text, (2) run the class macro on each item, and (3) print the class post-text. The deferred matter will then be cleared. If there are no deferred items for this class, then nothing is produced at all (not even the pre- and post-text).

7.2 Multiple Choice Questions

This package provides support for multiple choice question formatting. It depends on the deferral package. It may be used independently of modbook.

A multiple choice question consists of a question text, a list of choices, an answer, and an explanation. The answer and explanation are stored in deferrals, while the question is formatted as a list item, with the choices formatted within a list environment.

The package should be bundled with a script called multichoice.rb, which can be used to aid in writing multiple choice questions. To use the script, prepare a file of the form:

```
Question: \langle question\text{-}text \rangle
A: \langle choice\text{-}text \rangle
B: \langle choice\text{-}text \rangle
...
Answer: \langle correct\text{-}choice \rangle. \langle explanation \rangle
[More questions may follow]
```

The file should be TEX-formatted (and may use LATEX commands), with paragraphs separated by a blank line and starting with a word followed by a colon. Answer choices must be a single letter; the other permissible words before a comma are "Question" and "Answer". For example:

```
Question: What is 1 + 1?

A: 2

B: 15

C: 10 in binary

D: (A) and (C)

E: All of the above

Answer: D. The sum of one and one is typically represented with the digit 2 in the decimal system, but is also 10 in binary as
```

The answer choices and the explanation may cross-reference other answer choices using letters in parentheses. Phrases like "all of the above" or "none of the above" will also be identified as cross-referencing other choices. If an answer choice cross-references other choices, it *must* follow other non-cross-referencing choices and

must only cross-reference choices presented before it.
Running the multichoice.rb script on this file will:

specified in (C). Fifteen (B) is plainly incorrect.

- Randomize the order of the choices. The cross-referencing choices will not be rearranged, but the others will.
- Update the correct answer, and all the cross-references, to reflect the randomized order of the choices. Parenthesized letters in the choices and explanation are replaced, and phrases of the form "(A) and (B)" and "(C), (D), or (E)" are automatically sorted to reflect the new choice order.
- Format the question using the \multichoiceq commmand below.

The resulting output file can then be used as a LATEX input file after the multichoice package is loaded.

```
\mbox{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\m
```

Formats a multiple choice question. The assumption is that this macro is called within some sort of list, such that each question can be preceded with an **\item** command.

If the deferqs option was selected (see below), then questions will be placed in a deferral.

Saves the current question number, the correct answer, and the question to deferrals. Two deferrals are stored: an answer key that just contains the question number and correct answer, and an explanation key that also includes the explanation. #1 is the question number, #2 the correct answer, #3 the explanation.

\showquestions If questions are placed in a deferral, then this command will display the questions. By default, they will be placed in a multichoice environment. To change this, run \DeferralSurround{mch@questions}.

\multichoiceitem $\{\langle label \rangle\}\{\langle text \rangle\}$

Displays one of the choices to a multiple choice question. The assumption is that this occurs within a list environment (a choices environment in view of the definition of \multichoiceq).

The $\langle label \rangle$ should be the letter of the answer choice. It will be parenthesized by the macro.

choices An environment for multiple choice question choices. This environment will be invoked automatically by \multichoiceq.

 $\mbox{\mbox{\mbox{$\mbox{\m

Display an answer. The assumption is that this is inside a list environment so \item can be used; the question number will be given as the item.

This macro will automatically be invoked by \multichoiceq, but it may be redefined to provide for alternate formatting of answers.

\answerkey Produce the answer key.

\explanations Produce the explanations.

multichoice An environment for questions and answers. This environment is not required for use; \multichoiceq will work with a standard enumerate environment. However, it provides formatting that generally looks preferable for text-heavy multiple choice questions.

The option deferqs will place all questions into a deferral for later printing. The option immediateqs will display questions immediately.

By default, questions are displayed immediately.