## The whatsnote Class\*

Mingyu Xia <xiamingyu@westlake.edu.cn>

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#### 1 Introduction

The whatsnote LTEX class provides an elegant layout and powerful tools for taking notes in science, engineering, etc. It supports various compilation methods, such as pdfLTEX, XTETEX, ApLTEX, Lual-TEX, etc.

### 2 Usage

To load this class, write the line

\documentclass{whatsnote}

#### 2.1 Cover configuration

\coverset \coverset  $\{\langle keys \rangle\}$ 

The \coverset macro can config the cover, the mandatory argument accepts the following keys

**title** =  $\langle string \rangle$  can set the title on the cover page.

author, afill =  $\langle string \rangle$  can set the author and the affliction respectively on the cover page, and they will be combined together with a vertical bar separated.

**date** =  $\langle string \rangle$  can set the date on the cover page.

extinfo = \(\string\) can add contents at the south east corner of the cover page (e.g., add your personal seal ("Yin Zhāng" in Chinese)).

**head**,  $clogo = \langle file \rangle$  can add pictures at the top / the center white area of the cover page accordingly.

 $logos = \langle files' comma list \rangle$  can add a series of pictures at the "left bar" of the title page.

\maketitle \maketitle  $[\langle color \rangle]$ 

The \maketitle macro can generate the cover and config the theme color in its optional argument.

 $<sup>{\</sup>tt *https://github.com/myhsia/whatsnote, https://ctan.org/pkg/whatsnote}$ 

```
\sidehead \sidehead \{\langle sidebar\ header\rangle\} \sidefoot \{\langle sidebar\ footer\rangle\} \sidefoot The \sidehead, sidefoot macros can config the header and footer in the sidebar. \mathemph \mathemph \mathemph \{\langle math\ equation\rangle\}
```

The \mathemph macro can color-emphing math formula.

# **3 Working Example**

\end{document}

```
\documentclass[11pt]{whatsnote}
\usepackage[versionfa = 7, hook]{fontawesomescaled}
\usepackage{duckuments}
\coverset{
  title
         = Demo for the \textsc{WhatsNote} Package,
  author = \ttfamily \textsc{Mingyu Xia},
  afill
          = <\href{mailto:xiamingyu@westlake.edu.cn}
              {xiamingyu@westlake.edu.cn}>,
  date
          = November 2025,
  extinfo = {\href{https://github.com/myhsia/whatsnote}
              {\faIconScaled[scale = 4]{github}}},
  head
          = example-image-golden.pdf,
  clogo
          = example-grid-100x100pt.pdf,
  llogos = {example-image-duck, example-image-duck,
             example-image-duck, example-image-duck}
}
\begin{document}
\maketitle[teal]
\frontmatter \tableofcontents \mainmatter
\duckument[full]
```

# Golden ratio

(Original size: 32.361×200 bp)

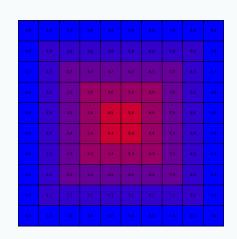
## Demo for the WHATSNOTE Package













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#### CHAPTER 1 A friendly duck at level o (chapter)

There once was a very smart but sadly blind duck. When it was still a small duckling it was renowned for its good vision. But sadly as the duck grew older it caught a sickness which caused its eyesight to worsen. It became so bad, that the duck couldn't read the notes it once took containing much of inline math. Only displayed equations remained legible. That annoyed the smart duck, as it wasn't able to do its research any  $longer. \ It \ called \ for \ its \ underduckling \ and \ said: \ "Go, \ find \ me \ the \ best \ eye \ ducktor \ there \ is. \ He \ shall \ heal \ me$ from my disease!"

"But my duck, how are you supposed to manage your daily routines without my visual guidance", replied the underduckling. The smart duck's face turned grim in anger. "You dare to talk back?" The underduckling blushed ashamed. How could he have objections after his duck gave strict orders? The underduckling was so embarrassed about his own behaviour he had to solve an equation.

After the equation was solved and the underduckling prepared his leave for the next day it fell asleep in a shaky mood. It did not know what the journey had prepared for him and if he was prepared enough for it. His sleep was restless. The dreams he had that night were not calm and bright as they used to be for an innocent underduckling.

Before dawn the underduckling woke. He didn't have the feeling of being well rested. But nonetheless he knew that this was the day he should leave. Except saying goodbye to his beloved ones there was nothing holding him back. His duck had sent him on the most important mission a five weeks old inexperienced underduckling was ever sent on. He bid farewell to his mother, all his brothers and sisters, and finally from his duck. The bag was shouldered, the boots were tied, the underduckling left.

As the underduckling went along he saw a tree. It was so tall he couldn't even approximate its height. Oh, how small he felt. What should he, a small duckling whose plumage was still fluffy, achieve in this vast, gigantic world? He stuck his trembling wings under the straps of his backpack to calm his shaking limbs. Where should he start his search? How should he survive in the hostile nature surrounding the sheltered pond of his community?

#### 1.1 A friendly duck at level 1 (section)

There once was a very smart but sadly blind duck. When it was still a small duckling it was renowned for its good vision. But sadly as the duck grew older it caught a sickness which caused its eyesight to worsen. It became so bad, that the duck couldn't read the notes it once took containing much of inline math. Only displayed equations remained legible. That annoyed the smart duck, as it wasn't able to do its research any longer. It called for its underduckling and said: "Go, find me the best eye ducktor there is. He shall heal me from my disease!"

"But my duck, how are you supposed to manage your daily routines without my visual guidance", replied the underduckling. The smart duck's face turned grim in anger. "You dare to talk back?" The underduckling

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#### 1.1.1 A friendly duck at level 2 (subsection)

There once was a very smart but sadly blind duck. When it was still a small duckling it was renowned for its good vision. But sadly as the duck grew older it caught a sickness which caused its eyesight to worsen. It became so bad, that the duck couldn't read the notes it once took containing much of inline math. Only displayed equations remained legible. That annoyed the smart duck, as it wasn't able to do its research any longer. It called for its underduckling and said: "Go, find me the best eye ducktor there is. He shall heal me from my disease!"

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After the equation was solved and the underduckling prepared his leave for the next day it fell asleep in a shaky mood. It did not know what the journey had prepared for him and if he was prepared enough for it. His sleep was restless. The dreams he had that night were not calm and bright as they used to be for an innocent underduckling.

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As the underduckling went along he saw a tree. It was so tall he couldn't even approximate its height. Oh, how small he felt. What should he, a small duckling whose plumage was still fluffy, achieve in this vast,

#### CHAPTER 1. A FRIENDLY DUCK AT LEVEL 0 (CHAPTER)

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#### 1.2 Lists

#### 1.2.1 Example for ducks (itemize)

- First swims father drake
- Then floats mother duck
- After her paddles baby duckling
- And over there bathes uncle canard

#### Nested ducks

- swimming father drake
  - swimming father drake
    - \* swimming father drake
      - · swimming father drake
    - floating mother duck
       floating mother duck
  - floating mother duck
- floating mother duck

gigantic world? He stuck his trembling wings under the straps of his backpack to calm his shaking limbs. Where should he start his search? How should he survive in the hostile nature surrounding the sheltered pond of his community?

#### A friendly duck at level 3 (subsubsection)

There once was a very smart but sadly blind duck. When it was still a small duckling it was renowned for its good vision. But sadly as the duck grew older it caught a sickness which caused its eyesight to worsen. It became so bad, that the duck couldn't read the notes it once took containing much of inline math. Only displayed equations remained legible. That annoyed the smart duck, as it wasn't able to do its research any longer. It called for its underduckling and said: "Go, find me the best eye ducktor there is. He shall heal me from my disease!"

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As the underduckling went along he saw a tree. It was so tall he couldn't even approximate its height. Oh, how small he felt. What should he, a small duckling whose plumage was still fluffly, achieve in this vast, gigantic world? He stuck his trembling wings under the straps of his backpack to calm his shaking limbs. Where should he start his search? How should he survive in the hostile nature surrounding the sheltered pond of his community?

A friendly duck at level 4 (paragraph) There once was a very smart but sadly blind duck. When it was still a small duckling it was renowned for its good vision. But sadly as the duck grew older it caught a sickness which caused its eyesight to worsen. It became so bad, that the duck couldn't read the notes it once took containing much of inline math. Only displayed equations remained legible. That annoyed the smart duck, as it wasn't able to do its research any longer. It called for its underduckling and said: "Go, find me the best eye ducktor there is. He shall heal me from my disease!"

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1.2. Lists

#### 1.2.2 Example for ducks (enumerate)

- 1. First swims father drake
- 2. Then floats mother duck
- 3. After her paddles baby duckling
- 4. And over there bathes uncle canard

#### Nested ducks

- 1. swimming father drake
  - (a) swimming father drake
    - i. swimming father drake
    - A. swimming father drake
    - B. floating mother duck ii. floating mother duck
  - (b) floating mother duck
- 2. floating mother duck

#### 1.2.3 Example for ducks (description)

drake is the swimming father

duck is the floating mother

duckling is the paddling baby

canard is the bathing uncle

#### Nested ducks

drake is the swimming father

drake is the swimming father

drake is the swimming father

drake is the swimming father
duck is the floating mother

#### A The Source Code

Assign the module name of the variables and control sequences, which will be automatically replaced by l3docstrip.

```
(@@=whats)
```

#### A.1 The whatsnote.cls file

Start the optionlist class for l3docstrip.

```
*class
```

Define the date, version, and summary variables, and declare the class.

```
3 \def \whatsnote@date {2025-11-12}
4 \def \whatsnote@version {v5.0B}
5 \def \whatsnote@tldr
6 {LaTeX class for taking notes in science, engineering, etc.}
7 \ProvidesExplClass {whatsnote} {\whatsnote@date}
8 {\whatsnote@version} {\whatsnote@tldr}
```

```
\_whats_msg_new:nn
\_whats_msg_error:nn
\_whats_msg_warning:nn
```

Functions for broadcast errors and warnings.

```
9 \cs_new_protected:Npn \__whats_msg_new:nn #1#2
10 { \msg_new:nnn { whatsnote } {#1} {#2} }
11 \cs_new_protected:Npn \__whats_msg_error:nn #1#2
12 { \msg_error:nnn { whatsnote } {#1} {#2} }
13 \cs_new_protected:Npn \__whats_msg_warning:nn #1#2
14 { \msg_error:nnn { whatsnote } {#1} {#2} }
```

\\_\_whats\_provide\_module:n

Function for providing modules with the predefined date and version variables.

Function for loading modules.

```
\__whats_load_module:n
```

```
\g whats base class options clist Variable for storing global option for basic class.
                              _{\mbox{\scriptsize 31}} \clist_new:N \g__whats_base_class_options_clist
                              _{3^2} \keys_define:nn { whats / classoption }
                                    unknown .code:n = \__whats_unknown_option:n { #1 },
                             (End of definition for \g_{whats\_base\_class\_options\_clist.)
                             Parsing unknown options: pass them to the basic class.
\__whats_unknown_option:n
                              36 \cs_new_protected_nopar:Npn \__whats_unknown_option:n #1
                                     \tl_if_empty:nTF { #1 }
                                       { \clist_gput_right:NV \g_whats_base_class_options_clist \l_keys_key_str }
                                         \exp_args:NNx \clist_gput_right:Nn \g__whats_base_class_options_clist
                                           { \left\{ \ \right\}_{keys\_key\_str} = \left\{ \ \right\} }
                                  }
                              45 \ProcessKeyOptions [ whats / classoption ]
                             (End of definition for \__whats_unknown_option:n.)
                             Load basic class with some preloaded options.
                              46 \PassOptionsToClass { book } { 11pt }
                              47 \PassOptionsToPackage { svgnames } { xcolor }
                              48 \exp_args:NNV \LoadClass [ \g__whats_base_class_options_clist ] { book }
                             Load modules for whatsnote.
                              49 \__whats_load_module:n { typeset, layout, theorem, cover }
                             End the input stream of whatsnote.cls.
                              50 \file_input_stop:
                             End the optionlist class for I3docstrip.
                              51 (/class)
                                    The whats-typeset-module.code.tex file
                             Start the optionlist typeset for I3docstrip.
                              52 (*typeset)
                             Declare the module file.
                              53 \__whats_provide_module:n { typeset }
                             Load the amssymb, bbm, bm, cancel, extarrows, mathtools, nicematrix, xfrac packages.
                              54 \RequirePackage{amssymb, bbm, bm, cancel, extarrows,
                                                  mathtools, nicematrix, xfrac}
                             Load the e style esvect package for \vec arrow, then define the anti-vector arrow.
                              56 \RequirePackage[e]{esvect}
                              57 \let \vec \vv
                              58 \DeclareRobustCommand \cev [1]{{\mathpalette\do@cev{#1}}}
                              59 \newcommand \do@cev [2]{
                                  \vbox{\offinterlineskip
                                    \ialign{##\cr
```

\hidewidth\reflectbox{\$\m@th#1\vec{}\mkern4mu\$}\hidewidth\cr

Load the fixdif and derivative packages for inputting math derivatives, suppress warnings when using xet.ex.

```
67 \sys_if_engine_xetex:T { \PassOptionsToPackage { no-math } { fontspec } }
68 \RequirePackage{fixdif, derivative}
```

Define some mathematic operators.

```
69 \newdif \D {\mathsf D}
70 \newdif \upe {\mathrm e}
71 \newdif \iu {\mathrm i \mkern1mu}
72 \let \sinh \relax \let \cosh \relax \let \tanh \relax \let \coth \relax
73 \DeclareMathOperator \sinh {sh}
74 \DeclareMathOperator \cosh {ch}
75 \DeclareMathOperator \tanh {th}
76 \DeclareMathOperator \coth {cth}
77 \DeclareMathOperator \sgn
                               {sgn}
_{78} \DeclareMathOperator \cotan {\qopname\relax o{ctg}}
79 \DeclareMathOperator \im
                               \{im\}
80 \DeclareMathOperator \adj
                               {adi}
81 \DeclareRobustCommand \tran{^{\mkern-1.5mu\mathsf T}}
82 \DeclareRobustCommand \identity {\ensuremath{\mathbbm 1}}
```

Load the siunity package for inputting physics units, then declare the unit "angstrom".

```
83 \RequirePackage{siunitx}
```

84 \DeclareSIUnit \angstrom {\text \AA}

Load the mhchem package for inputting chemistry formula.

```
85 \RequirePackage[version = 4]{mhchem}
```

Load the physics2 package's some modules for quick math and physics input. Temporarily change the module name for hacking the package¹.

```
86 〈@@=phy〉
87 \RequirePackage{physics2}
88 \usephysicsmodule{ab, ab.braket, diagmat, xmat, qtext.legacy, op.legacy}
```

Switch the star and non-star branches for the Dirac brackets inputting commands to make the non-equal height brackets the default.

```
89 \DeclareRobustCommand \bra
90 {\@ifstar{\phy@d@lx{br.m}{br.a}}{\phy@d@lx{br.m}{br.a}*}}
91 \DeclareRobustCommand \ket
92 {\@ifstar{\phy@d@lx{kt.m}{kt.a}}{\phy@d@lx{kt.m}{kt.a}*}}
93 \DeclareRobustCommand \braket
94 {\@ifstar{\phy@d@lx{bk.m}{bk.a}}{\phy@d@lx{bk.m}{bk.a}*}}
95 \DeclareRobustCommand \ketbra
96 {\@ifstar{\phy@d@lx{kb.m}{kb.a}}{\phy@d@lx{kb.m}{kb.a}*}}
```

Extend the diagmat module for the physics2 package: support the small matrices, and enable users to modify the alignments of the matrices' elements.

```
97 \DeclareDocumentCommand \diagmat { s O{} m }
98  {
99     \IfBooleanTF {#1}
```

<sup>&</sup>lt;sup>1</sup>@AlphaZTX has not merged my suggestion for the physics2 package. Blame him!

```
{ \_phy_diagmat_type:nnn { small } {#2} {#3} }
                   { \__phy_diagmat_type:nnn {
                                                      } {#2} {#3} }
               }
             \DeclareDocumentCommand \pdiagmat { s O{} m }
          103
          104
                 \IfBooleanTF {#1}
           105
                   { \_phy_diagmat_type:nnn { psmall } {#2} {#3} }
                   { \__phy_diagmat_type:nnn { p
                                                  } {#2} {#3} }
               }
             \DeclareDocumentCommand \bdiagmat { s O{} m }
                 \IfBooleanTF {#1}
                   { \__phy_diagmat_type:nnn { bsmall } {#2} {#3} }
                   { \__phy_diagmat_type:nnn { b
                                                   } {#2} {#3} }
             \DeclareDocumentCommand \Bdiagmat { s O{} m }
          116
                 \IfBooleanTF {#1}
                   { \__phy_diagmat_type:nnn { Bsmall } {#2} {#3} }
                   { \__phy_diagmat_type:nnn { B
                                                   } {#2} {#3} }
          119
               }
           120
             \DeclareDocumentCommand \vdiagmat { s O{} m }
          121
                 \IfBooleanTF {#1}
          123
                   { \__phy_diagmat_type:nnn { vsmall } {#2} {#3} }
          124
                   { \__phy_diagmat_type:nnn { v
                                                      } {#2} {#3} }
          126
             \DeclareDocumentCommand \Vdiagmat { s O{} m }
          127
          128
                 \IfBooleanTF {#1}
                   { \__phy_diagmat_type:nnn { Vsmall } {#2} {#3} }
                   { \__phy_diagmat_type:nnn { V
                                                     } {#2} {#3} }
               }
          Restore the module name.
           133 (@@=whats)
          Load and config the hyperref package, suppress the bookmark warnings.
          134 \RequirePackage{hyperref}
          _{135} \hypersetup{colorlinks, citecolor = teal}
          136 \let\oldHyPsd@CatcodeWarning\HyPsd@CatcodeWarning
          137 \renewcommand \HyPsd@CatcodeWarning [1]
               139 \pdfstringdefDisableCommands{
               \def\intop{int} \def\ilimits@{lim}
               \def\infty{infty} \let\HyPsd@CatcodeWarning\@gobble
          142 }
          Macro for color-emphing math formula.
\mathemph
          _{\mbox{\tiny 143}} \NewDocumentCommand \mathemph { O{} m } {\iffmode
               \colorbox{Crimson!15}{\vphantom{$\displaystyle #1$}$\displaystyle #2$}\else
               \colorbox{Crimson!15}{\vphantom{#1}#2}\fi}
          (End of definition for \mathemph. This function is documented on page 2.)
           \color_set:nnn { eqcolor } { HTML } { 2F4F4F }
```

```
Restore the definition for \[ and \] changed by amsmath, then apply the equations' color (high-unstable, temporarily disabled).
```

```
_{\mbox{\scriptsize 147}} % \def \dollardollar@begin { \def \eqcolor {\color{eqcolor}} \eqcolor $$ }
148 % \def \dollardollar@end { $$ \color_select:n {black} }
149 \DeclareRobustCommand \[
       \scan_stop:
       \if_mode_math:
152
         \@badmath
       \else:
154
         \if_mode_vertical:
155
           \nointerlineskip
           \makebox[.6\linewidth]{ }
         \fi:
       \dollardollar@begin % \color_select:n { eqcolor }
160
161
162 \DeclareRobustCommand \]
163
       \scan_stop:
164
       \if_mode_math:
165
         \if_mode_inner:
           \@badmath
         \else:
           \dollardollar@end
         \fi:
       \else:
         \@badmath
       \fi:
       \ignorespaces
175
End the input stream of whats-typeset-module.code.tex.
\file_input_stop:
End the optionlist typeset for l3docstrip.
177 (/typeset)
```

#### A.3 The whats-layout-module.code.tex file

Start the optionlist layout for l3docstrip.

```
178 (*layout)
```

Declare the module file.

```
179 \__whats_provide_module:n { layout }
```

Load the anyfontsize, Imodern, microtype, manfnt, ragged2e, soul, libertine, ulem, xcolor packages.

```
180 \RequirePackage{anyfontsize, lmodern, microtype, manfnt, ragged2e, soul}
181 \RequirePackage[mono = false, osf]{libertine}
182 \RequirePackage[normalem]{ulem}
183 \RequirePackage[svgnames]{xcolor}

Config the geometry.
184 \RequirePackage[left = 1.25in, vmargin = 1in, headheight = 15pt,
185 right = .75in, headsep = 15pt]{geometry}
```

```
RequirePackage{graphicx, pgfplots}
\graphicspath{{./media/logos/} {./media/}}
\pgfplotsset{compat = newest}
189 % Table and list
\RequirePackage{booktabs, array, enumext}
\setenumext[enumext, 1]{label = (\alph*)}
192 \setenumext[enumext, 2]{label = \roman*.}
\RequirePackage[inline]{enumitem}
Config the header and footer.
  \RequirePackage{fancyhdr}
  \renewcommand* \chaptermark [1]
196
      \markboth
198
          \normalfont \biolinumLF \scshape
199
          \int_compare:nNnT { \c@secnumdepth } > { \m@ne }
            { \if@mainmatter \@chapapp \ \thechapter .~\ \fi } #1
    }
  \renewcommand* \sectionmark [1]
204
205
      \markright
        {
          \normalfont \sffamily
          211
212 \fancyhead[OR] {\sffamily \rightmark}
213 \fancyhead[OL]{\sffamily \thepage}
214 \fancyhead[EL]{\sffamily \leftmark}
215 \fancyhead[ER]{\sffamily \thepage}
216 \fancyfoot[L,C,R]{}
217 \pagestyle{fancy}
Config the header rule and footer rule style.
218 \renewcommand* \headrulewidth {1pt}
\renewcommand* \footrulewidth {.5pt}
220 \hook_gput_code:nnn { cmd / headrule / before } {.}
    { \color_select:n { black!25 } }
222 \renewcommand \footrule
223
      \if@fancyplain \let \footrulewidth \plainfootrulewidth \fi
224
      \color_select:n { black!25 }
      \hrule \@width \headwidth \@height \footrulewidth
226
Paragraphs configurations.
228 \linespread{1.2}
\RequirePackage{titlesec, subcaption}
230 \titleformat \chapter [hang] {\huge \bfseries \sffamily}
    {\biolinumLF \scshape \@chapapp\ \thechapter} {1em} {}
232 \titlespacing* \chapter {\z0} {\z0} {30pt}
^{233} \titlespacing \paragraph {\z0} {1.5ex minus .1 ex} {1pc}
234 \RequirePackage{paracol}
```

```
235 \columnratio{.64}
236 \RequirePackage{framed}
237 \setlength \FrameSep {\z@}
238 \setlength \parindent {\z0}
Config the appearance of appendix in toc.
239 \renewcommand \@pnumwidth {2.5em}
240 \renewcommand \appendix {
    \cleardoublepage
241
    \setcounter{chapter}{0}
242
    \setcounter{section}{0}
243
    \gdef\@chapapp{\appendixname}
244
    \gdef\thechapter{\@Alph\c@chapter}
    \addtocontents {toc} { \protect \makeatletter }
    \addtocontents {toc} {
247
       \token_to_str:N \renewcommand* \token_to_str:N \l@section
         { \token_to_str:N \@dottedtocline {1} {1.5em} {5em} }
    \addtocontents {toc} { \protect \makeatother }
251
    \renewcommand*\familydefault {\sfdefault}
252
     \pagenumbering{roman}
253
254 }
End the input stream of whats-layout-module.code.tex.
255 \file_input_stop:
End the optionlist class for I3docstrip.
256 (/layout)
     The whats-theorem-module.code.tex file
A.4
Start the optionlist theorem for I3docstrip.
257 (*theorem)
Declare the module file.
258 \__whats_provide_module:n { theorem }
Load the keytheorems package, and predefine the following environments.
259 \RequirePackage{keytheorems}
260 \newcounter {week}
261 \newcommand \newweek { \refstepcounter{week} \clearpage }
262 \newkeytheorem { theorem } [ parent = section, style = definition ]
263 \newkeytheorem { example
                                 } [ parent
                                                = section, style = definition ]
264 \newkeytheorem { definition } [ parent
                                                = section, style = definition ]
                                 } [ parent = week, style = definition ]
} [ numbered = false, style = definition ]
} [ numbered = false, style = remark ]
265 \newkeytheorem { problem
266 \newkeytheorem { solution
267 \newkeytheorem { remark
268 \file_input_stop:
269 (/theorem)
```

#### A.5 The whats-cover-module.code.tex file

```
Start the optionlist cover for l3docstrip.
                                 270 (*cover)
                                 Declare the module file.
                                 271 \__whats_provide_module:n { cover }
                                Load the tikz package for graphing the (The expl3 syntax needs to be temporarily turned off).
                                 272 \RequirePackage{tikz, zref-totpages}
                                 273 \ExplSyntaxOff
                                 274 \usetikzlibrary{fadings, patterns, arrows.meta}
                                 275 \tikzset{ > = Stealth, every picture/.append style = {
                                              line join = round, line cap = round, thick } }
                                 277 \ExplSyntaxOn
                    \coverset Macro for cover configuration by setting keys.
                                 278 \DeclareDocumentCommand \coverset { m } { \keys_set:nn { __whats / coverset } {#1} }
                                 Comma list for storing the left logos' path.
\l__whats_cover_llogos_clist
                                279 \clist_new:N \l__whats_cover_llogos_clist
                                 Token lists for storing elements on the cover page.
                                 280 \keys_define:nn { __whats / coverset }
                       \cline{0.00} \Qtitle _{281} {
                      \@author 282
                                       title
                                                       .tl_gset:N
                                                                       = \@title,
                       \@afill 283
                                       author
                                                       .tl_gset:N
                                                                      = \@author,
                                       afill
                                                       .tl_gset:N
                                                                       = \@afill,
                       \@date 284
                                       date
                                                       .tl_gset:N
                                                                      = \@date,
  \l_whats_cover_extinfo_tl 285
                                        date
                                                       .initial:n
                                                                      = \today,
     \l__whats_cover_head_tl 286
                                                                      = \l_whats_cover_extinfo_tl,
                                        extinfo
                                                       .tl\_set:N
    \l__whats_cover_clogo_tl
                                       head
                                                       .tl_set:N
                                                                      = \l_whats_cover_head_tl,
                                                                       = \l__whats_cover_clogo_tl,
                                        clogo
                                                       .tl\_set:N
                                                       .clist_set:N = \l__whats_cover_llogos_clist,
                                        llogos
                                 (End of definition for \coverset and others. These functions are documented on page 1.)
                    \sidehead
                                Macros for configuring the header and footer on the sidebar.
                     \sidefoot
                                 292 \DeclareRobustCommand * \sidehead [1] { \tl_gset:Nn \@sidehead {#1} }
                                 _{\rm 293} \DeclareRobustCommand * \sidefoot [1] { \tl_gset:Nn \@sidefoot {#1} }
                   \@sidehead
                   \@sidefoot
                                Set the header and footer of the sidebar \( \tau title name \), \( \tau page number \) / \( \tau tal page \) by
                                 default.
                                 294 \sidehead{\@title}
                                 295 \sidefoot{\thepage\,/\,\ztotpages}
                                 (End of definition for \sidehead and others. These functions are documented on page 2.)
                                Declare a hook for sidebar.
                                 296 \hook_gset_rule:nnnn { shipout / background } { shipout__whats }
                                                           { before } { pgfrcs }
```

```
Redefine the \maketitle macro for graphing the cover and load the hook.
           \maketitle
                       298 \DeclareDocumentCommand \maketitle { 0 { gray } }
                              \__whats_@maketitle:n {#1}
                              \hook_gput_code:nnn { shipout / background } { shipout__whats }
                       301
                                { \if@mainmatter \__whats_sidebar_hook:n {#1} \fi }
                       302
                       303
                       (End of definition for \maketitle. This function is documented on page 1.)
                       The auxiliary command for \maketitle.
\__whats_@maketitle:n
                          \cs_new_protected_nopar:Npn \__whats_@maketitle:n #1
                       305
                              \pagecolor{#1!10}
                              \let \cleardoublepage \clearpage
                              \begin{titlepage}
                                \begin{tikzpicture} [ remember ~ picture, overlay ]
                                   \tl_if_empty:NF \l__whats_cover_head_tl
                                       \node [ yshift = .325\paperheight, opacity = .5,
                                               rotate ~ around = { pi \c_colon_str
                                               ([yshift = .325\paperheight]current ~ page.center)} ]
                                         at (current ~ page.center)
                                         { \includegraphics [width = \paperwidth]
                       316
                                           { \l__whats_cover_head_tl } };
                                    }
                                   \clist_if_empty:NF \l__whats_cover_llogos_clist
                                    {
                                       \int_step_inline:nn { \clist_count:N \l__whats_cover_llogos_clist }
                                         {
                                           \node
                                             [ opacity = .25, yshift = {
                                               -.6\paperheight / 2 /
                                                 \clist_count:N \l__whats_cover_llogos_clist +
                                               ##1 * .6\paperheight /
                                                 \verb|\clist_count:N \l__whats_cover_llogos_clist||
                                             ] at ([xshift = .1\paperwidth]current ~ page.south ~ west)
                                             {
                                               \includegraphics
                                                 Γ
                                                   height = .6\paperheight/6,
                                                   width
                                                           = .16\paperwidth, keepaspectratio
                                                 [ ] { \clist_item:Nn \l__whats_cover_llogos_clist { ##1 } }
                                             };
                       336
                                         }
                                    }
                       338
                                  \fill [ white, opacity = .5 ] (current ~ page.south ~ east) rectangle +
                                     (-.8\paperwidth, .6\paperheight);
                                  \node [ gray, above ~ left, inner ~ sep = 1em ] at
                                     (current ~ page.south ~ east) { \l__whats_cover_extinfo_tl };
                                   \fill [ white, opacity = .5 ] (current ~ page.south ~ east) rectangle +
                                     (-.7\paperwidth, .7\paperheight);
                                  \node
                       345
                                     [ shift = {(-.35*\paperwidth,.65*\paperheight)},
```

```
] at (current ~ page.south ~ east) { \@title };
                                    \node
                                       [ shift = {(-.75*\paperwidth,.3*\paperheight)},
                                        rotate = 90, gray, opacity = .6, font = \huge \sffamily
                                      ] at (current ~ page.south ~ east) { \@author\ | \ \@afill };
                                    \tl_if_empty:NF { \l_whats_cover_clogo_tl }
                                      {
                                        \node (cover ~ logo)
                                          [ shift = {(.65*\paperwidth,.3*\paperheight)}]
                                          at (current ~ page.south ~ west)
                                          {
                                             \includegraphics[ height = .4\paperheight ]
                                               { \l__whats_cover_clogo_tl }
                                      }
                                  \end{tikzpicture}
                                  \clearpage \thispagestyle{empty}
                                  \centering
                                  \vspace* \fill \sffamily
                                    \Large This ~ page ~ was ~ intentionally ~ left ~ blank.
                                  \vspace* \fill
                                \end{titlepage}
                                \pagecolor{Beige!30}
                         (End of definition for \_ whats_@maketitle:n.)
                         Hook for graphing the sidebar: different on odd and even pages.
\__whats_sidebar_hook:n
                         372 \cs_new_protected:Npn \__whats_sidebar_hook:n #1
                                \int_if_odd:nTF { \arabic { page } }
                                    \tikz [remember ~ picture, overlay] {
                         376
                                      \fill [ #1, opacity = .125 ]
                                             (current ~ page.south ~ west) rectangle
                                             ([xshift = +.5in]current ~ page.north ~ west);
                                      \node [ opacity = .25, inner ~ xsep = .25in,
                                              above, inner ~ ysep = {1in - \footskip + 1ex},
                                              font = \sffamily \large,
                                            ] at ([xshift = +.25in]current ~ page.south ~ west)
                                            { \rotatebox {-90} {\@sidehead} };
                                      \node [ opacity = .25, inner ~ xsep = .25in,
                                              above, inner ~ ysep = \headsep, yshift = -1in,
                                              font = \sffamily \large,
                                            ] at ([xshift = +.25in]current ~ page.north ~ west)
                                            { \rotatebox {-90} {\@sidefoot} };
                                      }
                                  }
                                    \tikz [remember ~ picture, overlay] {
                         393
                                      \fill [ #1, opacity = .125 ]
                         394
                                             (current ~ page.south ~ east) rectangle
                                             ([xshift = -.5in]current ~ page.north ~ east);
```

darkgray, font = \Huge \bfseries \sffamily

```
\node [ opacity = .25, inner \sim xsep = .25in,
                      above, inner ~ ysep = {1in - \footskip + 1ex},
                      font = \sffamily \large,
                    ] at ([xshift = -.25in]current ~ page.south ~ east)
                    { \rotatebox {+90} {\@sidehead} };
             \node [ opacity = .25, inner ~ xsep = .25in,
                      above, inner ~ ysep = \headsep, yshift = -1in,
                      font = \sffamily \large,
                    ] at ([xshift = -.25in]current ~ page.north ~ east)
                    { \rotatebox {+90} {\@sidefoot} };
             }
         }
    }
(End\ of\ definition\ for\ \verb|\__whats_sidebar_hook:n.)
End the input stream of whats-cover-module.code.tex.
410 \file_input_stop:
End the optionlist cover for l3docstrip.
_{_{411}} \langle/cover\rangle
```

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