

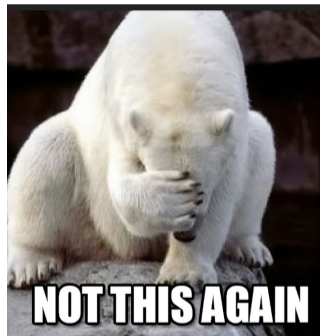
# Progress in the $\LaTeX$ tagging project: 2024

Ulrike Fischer, Bonn  
 $\LaTeX$  Project Team

20.7.2024  
TUG 2024

# Oh no, not again

- 2021 On the road to tagged PDF
- 2023 Automated tagging of  $\LaTeX$  documents—what is possible today?
- “Leslie Lamport documents”
- 2024 Progress in the  $\LaTeX$  tagging project
- Why bother? HTML is more accessible
  - WTPDF (Well Tagged PDF) examples
  - Tagging Status of  $\LaTeX$  Packages and Classes
  - Progress in math tagging



# Why bother? HTML is more accessible

## HTML

- structured language
- all viewer understand the structure
- lots of books and guidelines
- behaviour of AT-tools is well understood

## PDF

- page description language
- structure must be added on top
- viewer can (and do) ignore structure
- behaviour of AT-tools in large parts still unclear

# Why bother? Why do we use PDF?

## HTML

- many files
- scripts, cookies and session ID dependency
- no faithful representation
- difficult to use offline
- difficult to forward and distribute
- difficult to store

## PDF

- one file
- faithful representation
- easy offline use
- easy to forward and distribute
- long-term storage
- good viewer support

Not every use of PDF can be replaced easily by HTML.  
PDF documents must be accessible and reusable too!

# Goals of the Tagged PDF Project

- improve accessibility of PDF documents produced by  $\text{\LaTeX}$
- tagging should be *automatic* and *easy*
- also improve conversion to HTML
- push PDF 2.0 — better for accessibility
- push improvements in viewers and tools

# Main entry page of the Tagged PDF Project

<https://github.com/latex3/tagging-project>

- documentation for prototype documents
- examples
- issue tracker
- compability status of packages and classes

## New standards for PDF 2.0:

- PDF/UA-2 (Universal Accessibility) in PDF 2.0 (ISO 14289-2:2024)  
<https://www.iso.org/standard/82278.html>
- WTPDF (Well Tagged PDF) for Accessibility and Reuse in PDF 2.0  
<https://pdfa.org/wtpdf> (free)



### Well-Tagged PDF (WTPDF)

Using Tagged PDF for Accessibility and Reuse in PDF 2.0



PDF Association  
PDF Reuse TWG & PDF/UA TWG  
Version 1.0.0  
February 2024

## WTPDF examples

The PDF Association invites its members to contribute example PDF files demonstrating conformance to WTPDF. To be included such files must be:

- Valid PDF 2.0 (a clean report from the Arlington PDF Model is required);
- Valid PDF/UA-2 (and [PDF/A-4](#) and/or [PDF/X-6](#), for bonus points :-);
- Valid WTPDF (that is, conform to at least one WTPDF conformance level).

Additional [PDF Declarations](#), such as [Validated as conforming to PDF/UA-2](#) or Validated as [WTPDF, conformance level accessibility](#), if applicable.

**Note:** The PDF Association does not endorse these developers' representations but presents the examples "as is".

PDF Association Member	Example(s)
<a href="#">BFO (Big Faceless Organization)</a>	<a href="#">BFO-WTPDF-&amp;-PDFua2.pdf</a>
<a href="#">LaTeX Project</a>	<a href="#">Examples of various types of content<sup>2</sup></a>



# WTPDF examples

Descriptions and links:

<https://github.com/latex3/tagging-project/discussions/72>

Sources:

<https://github.com/latex3/tagging-project/tree/main/project-examples>



davidcarlisle last week

Maintainer

## WTPDF / PDF/UA-2 Examples by the LaTeX Project

The following files demonstrate various aspects of [Well Tagged PDF](#) documents conforming to [PDF/UA-2](#).

They were all generated with LuaLaTeX ( `lualatex-dev` in [TeX Live 2024](#)).

- Bible: pushing the limits
- Max and Moritz: multilanguage problems
- `amsmath` documentation (`amslatex`): tagging math
- ...

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<https://latex3.github.io/tagging-project/tagging-status/>

## Thanks

Initial list Ian Thompson

Largely extended by mbertucci

For users: Fast overview over the package and class status

For developers: Test files and links to open issues

## Help needed!

Test and record results!



## LaTeX Tagging Project

# Tagging Status of LaTeX Packages and Classes

This file shows the status of 185 LaTeX [Packages](#) and [Classes](#) with respect to PDF tagging. `phase-III` is generally needed and not explicitly shown.

The values in the *Status* column have the following meaning:

- `compatible` This package or class works without any issues when tagging is enabled. If there are problems, please open an issue in [the tagging-project repo](#). (100 entries.)
- `partially-compatible` The package or class is currently partially compatible, e.g., some parts may not work yet, but with some restrictions it can already be used. See comments for details. (17 entries.)
- `currently-incompatible` The package or class is currently incompatible with the tagging code, but we expect it to be updated eventually. (30 entries.)
- `no-support` This package or class or class is incompatible with the tagging code and we do *not* believe that it will ever be supported. (3 entries.)
- `unknown` The status of this package or class is not known, because there aren't reliable tests yet. Help with testing to determine the

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To use packages or classes together with the tagging code it is (nearly) always necessary to load at least `phase-III` of the tagging code, i.e., `testphase=phase-III` in `\DocumentMetadata`. To save space in the tables, this is not explicitly mentioned below. However, if a package or class requires other settings there is an explicit remark in the comments column, e.g., `Tagging support: phase-III, table` which means you have to specify `testphase={phase-III,table}`. If `package` is mentioned at this point it means that the package itself provides the necessary tagging support and not one of the modules in `latex-lab`.

To add or edit the entries in the tables, please make a pull request to change the YAML file [tagging-status.yml](#).

If you encounter a problem with a package or class for which there is no issue in the [issue tracker](#) yet, please add an issue in the tracker first (including a small example what goes wrong) or start a discussion in the [discussion view](#) if that seems more appropriate. Later on it

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## Packages

Statistics: The table currently holds **170** packages out of which **96** are fully `compatible`, **15** `partially-compatible`, **24** `currently-incompatible`, and **3** have `no-support`. The status for the remaining **32** packages is `unknown`.

Click on the column headings to sort the table by the chosen column.

Name	Status	Comments	Relevant	Tasks	Last
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Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">Alegreya</a>	compatible				2024-07-13
<a href="#">AlegreyaSans</a>	compatible				2024-07-13
<a href="#">AnonymousPro</a>	compatible				2024-07-13
<a href="#">accanthis</a>	compatible				2024-07-13
<a href="#">algorrevived</a>	compatible				2024-07-13
<a href="#">almendra</a>	compatible				2024-07-13

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<a href="#">AnonymousPro</a>	compatible				2024-07-13
<a href="#">accanthis</a>	compatible				2024-07-13
<a href="#">algotrevived</a>	compatible				2024-07-13
<a href="#">almendra</a>	compatible				2024-07-13
<a href="#">amscd</a>	compatible	Use of math tagging currently requires support from external tools.  Tagging support: phase-III, math.	<a href="#">test(s)</a>		2024-07-12



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<a href="#">AnonymousPro</a>	compatible				2024-07-13
<a href="#">accanthis</a>	compatible				2024-07-13
<a href="#">algotrevived</a>	compatible				2024-07-13
<a href="#">almendra</a>	compatible				2024-07-13
<a href="#">amscd</a>	compatible	Use of math tagging currently requires support from external tools. Tagging support: <b>phase-III, math</b> .	<a href="#">test(s)</a>		2024-07-12

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">amsopn</a>	compatible	Use of math tagging currently requires support from external tools. Tagging support: <b>phase-III, math</b> .	<a href="#">test(s)</a>		2024-07-09
<a href="#">amstext</a>	compatible	Use of math tagging currently requires support from external tools.	<a href="#">test(s)</a>		2024-07-12

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Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">amsgen</a>	compatible	Use of math tagging currently requires support from external tools. Tagging support: <b>phase-III, math</b> .	<a href="#">test(s)</a>		2024-07-09
<a href="#">amstext</a>	compatible	Use of math tagging currently requires support from external tools. Tagging support: <b>phase-III, math</b> .	<a href="#">test(s)</a>		2024-07-12
<a href="#">anttor</a>	compatible				2024-07-13
<a href="#">arimo</a>	compatible				2024-07-13
<a href="#">array</a>	compatible	Tagging support: <b>phase-III, table</b> .			2024-07-06
<a href="#">avant</a>	compatible	Obsolete package; suggested replacement <code>tgadvantor</code>			2024-07-13

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		Tagging support: <b>phase-III, math</b> .			
<b>amstext</b>	<b>compatible</b>	Use of math tagging currently requires support from external tools. Tagging support: <b>phase-III, math</b> .	<b>test(s)</b>		2024-07-12
<b>anttor</b>	<b>compatible</b>				2024-07-13
<b>arimo</b>	<b>compatible</b>				2024-07-13
<b>array</b>	<b>compatible</b>	Tagging support: <b>phase-III, table</b> .			2024-07-06
<b>avant</b>	<b>compatible</b>	Obsolete package; suggested replacement tgadvantor			2024-07-13
<b>Baskervaldx</b>	<b>compatible</b>				2024-07-13
<b>bezier</b>	<b>compatible</b>	Empty compatibility package, can be removed from the preamble			2024-07-07
<b>blindtext</b>	<b>compatible</b>	Tagging support: <b>phase-III, firstaid</b> .			2024-07-07
<b>bm</b>	<b>compatible</b>	Use of math tagging currently requires support from external tools.	<b>test(s)</b>		2024-07-12

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<b>array</b>	<b>compatible</b>	Tagging support: <b>phase-III, table</b> .			2024-07-06
<b>avant</b>	<b>compatible</b>	Obsolete package; suggested replacement <b>tgadvantor</b>			2024-07-13
<b>Baskervaldx</b>	<b>compatible</b>				2024-07-13
<b>bezier</b>	<b>compatible</b>	Empty compatibility package, can be removed from the preamble			2024-07-07
<b>blindtext</b>	<b>compatible</b>	Tagging support: <b>phase-III, firstaid</b> .			2024-07-07
<b>bm</b>	<b>compatible</b>	Use of math tagging currently requires support from external tools. Tagging support: <b>phase-III, math</b> .	<b>test(s)</b>		2024-07-12

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<b>CharisSIL</b>	<b>compatible</b>				2024-07-13
<b>Chivo</b>	<b>compatible</b>				2024-07-13
<b>ClearSans</b>	<b>compatible</b>				2024-07-13

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<a href="#">blindtext</a>	compatible	Tagging support: <a href="#">phase-III</a> , <a href="#">firstaid</a> .			2024-07-07
<a href="#">bm</a>	compatible	Use of math tagging currently requires support from external tools. Tagging support: <a href="#">phase-III</a> , <a href="#">math</a> .	<a href="#">test(s)</a>		2024-07-12

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">CharisSIL</a>	compatible				2024-07-13
<a href="#">Chivo</a>	compatible				2024-07-13
<a href="#">ClearSans</a>	compatible				2024-07-13
<a href="#">CormorantGaramond</a>	compatible				2024-07-13
<a href="#">CrimsonPro</a>	compatible				2024-07-13
<a href="#">calc</a>	compatible				2024-07-06
<a href="#">color</a>	compatible				2024-07-06
<a href="#">colortbl</a>	compatible	<a href="#">#90</a> issue with longtable fixed at the last release Tagging support: <a href="#">phase-III</a> , <a href="#">table</a> .	<a href="#">#90</a>		2024-07-07

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			issue(s)	updated
<a href="#">CharisSIL</a>	compatible			2024-07-13
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<a href="#">CormorantGaramond</a>	compatible			2024-07-13
<a href="#">CrimsonPro</a>	compatible			2024-07-13
<a href="#">calc</a>	compatible			2024-07-06
<a href="#">color</a>	compatible			2024-07-06
<a href="#">colortbl</a>	compatible	#90 issue with longtable fixed at the last release  Tagging support: <code>phase-III</code> , <code>table</code> .	<a href="#">#90</a>	2024-07-07
<a href="#">DejaVuSans</a>	compatible			2024-07-13
<a href="#">DejaVuSansCondensed</a>	compatible			2024-07-13
<a href="#">DejaVuSansMono</a>	compatible			2024-07-13
<a href="#">DejaVuSerif</a>	compatible			2024-07-13
<a href="#">DejaVuSerifCondensed</a>	compatible			2024-07-13
<a href="#">delarray</a>	compatible	Use of math tagging currently requires	<a href="#">test(s)</a>	2024-07-10

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<b>color</b>	<b>compatible</b>				2024-07-06
<b>colortbl</b>	<b>compatible</b>	#90 issue with longtable fixed at the last release  Tagging support: <b>phase-III</b> , <b>table</b> .	<b>#90</b>		2024-07-07
<b>DejaVuSans</b>	<b>compatible</b>				2024-07-13
<b>DejaVuSansCondensed</b>	<b>compatible</b>				2024-07-13
<b>DejaVuSansMono</b>	<b>compatible</b>				2024-07-13
<b>DejaVuSerif</b>	<b>compatible</b>				2024-07-13
<b>DejaVuSerifCondensed</b>	<b>compatible</b>				2024-07-13
<b>delarray</b>	<b>compatible</b>	Use of math tagging currently requires support from external tools.  Tagging support: <b>phase-III</b> , <b>math</b> , <b>table</b> .	<b>test(s)</b>		2024-07-10

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<b>epsfig</b>	<b>compatible</b>	Obsolete, small wrapper around			2024-07-07

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<a href="#">DejaVuSansMono</a>	compatible				2024-07-13
<a href="#">DejaVuSerif</a>	compatible				2024-07-13
<a href="#">DejaVuSerifCondensed</a>	compatible				2024-07-13
<a href="#">delarray</a>	compatible	Use of math tagging currently requires support from external tools.  Tagging support: <b>phase-III</b> , <b>math</b> , <b>table</b> .	<a href="#">test(s)</a>		2024-07-10

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">epsfig</a>	compatible	Obsolete, small wrapper around graphicx			2024-07-07
<a href="#">etoolbox</a>	compatible				2024-07-12
<a href="#">euscript</a>	compatible				2024-07-06
<a href="#">exscale</a>	compatible				2024-07-06
<a href="#">FiraMono</a>	compatible				2024-07-13
<a href="#">FiraSans</a>	compatible				2024-07-13
<a href="#">fontspec</a>	compatible		<a href="#">test(s)</a>		2024-07-12



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<a href="#">epsfig</a>	compatible	Obsolete, small wrapper around graphicx			2024-07-07
<a href="#">etoolbox</a>	compatible				2024-07-12
<a href="#">euscript</a>	compatible				2024-07-06
<a href="#">exscale</a>	compatible				2024-07-06
<a href="#">FiraMono</a>	compatible				2024-07-13
<a href="#">FiraSans</a>	compatible				2024-07-13
<a href="#">fancyhdr</a>	compatible		<a href="#">test(s)</a>		2024-07-12
<a href="#">fix-cm</a>	compatible				2024-07-06
<a href="#">fixltx2e</a>	compatible	This is an obsolete package which should not be needed			2024-07-06
<a href="#">flafter</a>	compatible				2024-07-07
<a href="#">fltrace</a>	compatible				2024-07-06
<a href="#">fontenc</a>	compatible				2024-07-06

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<b>exscale</b>	<b>compatible</b>				2024-07-06
<b>FiraMono</b>	<b>compatible</b>				2024-07-13
<b>FiraSans</b>	<b>compatible</b>				2024-07-13
<b>fancyhdr</b>	<b>compatible</b>		test(s)		2024-07-12
<b>fix-cm</b>	<b>compatible</b>				2024-07-06
<b>fixltx2e</b>	<b>compatible</b>	This is an obsolete package which should not be needed			2024-07-06
<b>flafter</b>	<b>compatible</b>				2024-07-07
<b>fltrace</b>	<b>compatible</b>				2024-07-06
<b>fontenc</b>	<b>compatible</b>				2024-07-06
<b>fontspec</b>	<b>compatible</b>				2024-07-12
<b>footmisc</b>	<b>compatible</b>	Replacement code is in latex-lab	#12	integrate code properly into the package.	2024-07-06
<b>GoMono</b>	<b>compatible</b>				2024-07-13

Name

Status

Comments

Relevant

Tasks

Last

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<b>flafter</b>	<b>compatible</b>				2024-07-07
<b>fltrace</b>	<b>compatible</b>				2024-07-06
<b>fontenc</b>	<b>compatible</b>				2024-07-06
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<b>GoMono</b>	<b>compatible</b>				2024-07-13

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<b>GoSans</b>	<b>compatible</b>				2024-07-13
<b>geometry</b>	<b>compatible</b>	tagging of rules (showframe, crop marks) untested		needs further tests	2024-07-06
<b>graphics</b>	<b>compatible</b>	See <code>graphicx</code> package			2024-07-06
<b>graphicx</b>	<b>compatible</b>	Rather than	<a href="#">#16</a>		2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

				properly into the package.	
<b>GoMono</b>	<b>compatible</b>				2024-07-13
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<b>graphics</b>	<b>compatible</b>	See <code>graphicx</code> package			2024-07-06
<b>graphicx</b>	<b>compatible</b>	Rather than <code>\includegraphics[whatever]{whatever}</code> one should now write <code>\includegraphics[whatever,alt={This is the alternative text.}]{whatever}</code> . The alternative text will be ignored if tagging is not used. It seems that draft mode doesn't work at present. An old issue with height appears to be fixed.  See [1]	<a href="#">#16</a> Related: <a href="#">#64</a>		2024-07-06

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		marks) untested		tests	
<a href="#">graphics</a>	<b>compatible</b>	See <a href="#">graphics</a> package			2024-07-06
<a href="#">graphicx</a>	<b>compatible</b>	Rather than <code>\includegraphics[whatever]{whatever}</code> one should now write <code>\includegraphics[whatever,alt={This is the alternative text.}]{whatever}</code> . The alternative text will be ignored if tagging is not used. It seems that draft mode doesn't work at present. An old issue with height appears to be fixed.  See <a href="#">[1]</a>	<a href="#">#16</a> Related: <a href="#">#64</a>		2024-07-06
<a href="#">hyperref</a>	<b>compatible</b>	See <a href="#">[2]</a> Tagging support: <a href="#">package</a> .			2024-07-06
<a href="#">InriaSans</a>	<b>compatible</b>				2024-07-13
<a href="#">InriaSerif</a>	<b>compatible</b>				2024-07-13
<a href="#">ifthen</a>	<b>compatible</b>				2024-07-06
<a href="#">indentfirst</a>	<b>compatible</b>				2024-07-06
<a href="#">inputenc</a>	<b>compatible</b>				2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		<p>The alternative text will be ignored if tagging is not used. It seems that draft mode doesn't work at present. An old issue with height appears to be fixed.</p> <p>See <a href="#">[1]</a></p>			
<a href="#">hyperref</a>	compatible	See <a href="#">[2]</a> Tagging support: <code>package</code> .			2024-07-06
<a href="#">InriaSans</a>	compatible				2024-07-13
<a href="#">InriaSerif</a>	compatible				2024-07-13
<a href="#">ifthen</a>	compatible				2024-07-06
<a href="#">indentfirst</a>	compatible				2024-07-06
<a href="#">inputenc</a>	compatible				2024-07-06

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">keyval</a>	compatible				2024-07-06
<a href="#">LibreBodoni</a>	compatible				2024-07-13
<a href="#">l3sys-query</a>	compatible		<a href="#">test(s)</a>		2024-07-08
<a href="#">lastpage</a>	compatible				2024-07-12

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">InriaSerif</a>	compatible				2024-07-13
<a href="#">ifthen</a>	compatible				2024-07-06
<a href="#">indentfirst</a>	compatible				2024-07-06
<a href="#">inputenc</a>	compatible				2024-07-06

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">keyval</a>	compatible				2024-07-06
<a href="#">LibreBodoni</a>	compatible				2024-07-13
<a href="#">l3sys-query</a>	compatible		<a href="#">test(s)</a>		2024-07-08
<a href="#">lastpage</a>	compatible				2024-07-12
<a href="#">latexsym</a>	compatible				2024-07-06
<a href="#">lipsum</a>	compatible				2024-07-06
<a href="#">luamplib</a>	compatible	An old issue has been fixed.	<a href="#">#8</a>		2024-07-06
<a href="#">makeidx</a>	compatible		<a href="#">test(s)</a>		2024-07-11
<a href="#">microtype</a>	compatible	Footnote patching doesn't work but otherwise supported.	<a href="#">#67</a>		2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">keyval</a>	compatible				2024-07-06
<a href="#">LibreBodoni</a>	compatible				2024-07-13
<a href="#">l3sys-query</a>	compatible		<a href="#">test(s)</a>		2024-07-08
<a href="#">lastpage</a>	compatible				2024-07-12
<a href="#">latexsym</a>	compatible				2024-07-06
<a href="#">lipsum</a>	compatible				2024-07-06
<a href="#">luamplib</a>	compatible	An old issue has been fixed.	<a href="#">#8</a>		2024-07-06
<a href="#">makeidx</a>	compatible		<a href="#">test(s)</a>		2024-07-11
<a href="#">microtype</a>	compatible	Footnote patching doesn't work but otherwise supported.	<a href="#">#67</a>		2024-07-06
<a href="#">multicol</a>	compatible				2024-07-06
<a href="#">natbib</a>	compatible				2024-07-06
<a href="#">OldStandard</a>	compatible				2024-07-13
<a href="#">PTMono</a>	compatible				2024-07-13
<a href="#">PTSans</a>	compatible				2024-07-13
<a href="#">PTSansCaption</a>	compatible				2024-07-13



# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">luamplib</a>	compatible	An old issue has been fixed.	<a href="#">#8</a>		2024-07-06
<a href="#">makeidx</a>	compatible		<a href="#">test(s)</a>		2024-07-11
<a href="#">microtype</a>	compatible	Footnote patching doesn't work but otherwise supported.	<a href="#">#67</a>		2024-07-06
<a href="#">multicol</a>	compatible				2024-07-06
<a href="#">natbib</a>	compatible				2024-07-06
<a href="#">OldStandard</a>	compatible				2024-07-13
<a href="#">PTMono</a>	compatible				2024-07-13
<a href="#">PTSans</a>	compatible				2024-07-13
<a href="#">PTSansCaption</a>	compatible				2024-07-13
<a href="#">PTSansNarrow</a>	compatible				2024-07-13
<a href="#">PTSerif</a>	compatible				2024-07-13
<a href="#">PTSerifCaption</a>	compatible				2024-07-13

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">PlayfairDisplay</a>	compatible				2024-07-13
<a href="#">Pasario</a>	compatible				2024-07-13

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">OldStandard</a>	compatible				2024-07-13
<a href="#">PTMono</a>	compatible				2024-07-13
<a href="#">PTSans</a>	compatible				2024-07-13
<a href="#">PTSansCaption</a>	compatible				2024-07-13
<a href="#">PTSansNarrow</a>	compatible				2024-07-13
<a href="#">PTSerif</a>	compatible				2024-07-13
<a href="#">PTSerifCaption</a>	compatible				2024-07-13

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">PlayfairDisplay</a>	compatible				2024-07-13
<a href="#">Rosario</a>	compatible				2024-07-13
<a href="#">shellest</a>	compatible				2024-07-07
<a href="#">shortvrb</a>	compatible		<a href="#">test(s)</a>		2024-07-08
<a href="#">structuredlog</a>	compatible				2024-07-06
<a href="#">TheanoDidot</a>	compatible				2024-07-13
<a href="#">tabularx</a>	compatible	An old issue has been fixed. Tagging support: <a href="#">phase-III</a> , <a href="#">table</a> .	<a href="#">#42</a>		2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">PlayfairDisplay</a>	compatible				2024-07-13
<a href="#">Rosario</a>	compatible				2024-07-13
<a href="#">shellest</a>	compatible				2024-07-07
<a href="#">shortvrb</a>	compatible		<a href="#">test(s)</a>		2024-07-08
<a href="#">structuredlog</a>	compatible				2024-07-06
<a href="#">TheanoDidot</a>	compatible				2024-07-13
<a href="#">tabularx</a>	compatible	An old issue has been fixed. Tagging support: <b>phase-III, table</b> .	<a href="#">#42</a>		2024-07-06
<a href="#">tabulary</a>	compatible	Tagging support: <b>phase-III, table</b> .	<a href="#">test(s)</a>		2024-07-12
<a href="#">textcomp</a>	compatible	Package no longer needed as definitions have been moved into the kernel			2024-07-07
<a href="#">titleps</a>	compatible		<a href="#">test(s)</a>		2024-07-12
<a href="#">trace</a>	compatible				2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">structuredlog</a>	compatible				2024-07-06
<a href="#">TheanoDidot</a>	compatible				2024-07-13
<a href="#">tabularx</a>	compatible	An old issue has been fixed. Tagging support: <code>phase-III</code> , <code>table</code> .	<a href="#">#42</a>		2024-07-06
<a href="#">tabulary</a>	compatible	Tagging support: <code>phase-III</code> , <code>table</code> .	<a href="#">test(s)</a>		2024-07-12
<a href="#">textcomp</a>	compatible	Package no longer needed as definitions have been moved into the kernel			2024-07-07
<a href="#">titles</a>	compatible		<a href="#">test(s)</a>		2024-07-12
<a href="#">trace</a>	compatible				2024-07-06
<a href="#">tracefnt</a>	compatible				2024-07-06
<a href="#">trig</a>	compatible				2024-07-06
<a href="#">unicode-math</a>	compatible				2024-07-12
<a href="#">url</a>	compatible	An old issue has been fixed.	<a href="#">#5</a>		2024-07-06

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
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# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		definitions have been moved into the kernel			
<a href="#">titlesp</a>	compatible		<a href="#">test(s)</a>		2024-07-12
<a href="#">trace</a>	compatible				2024-07-06
<a href="#">tracefmt</a>	compatible				2024-07-06
<a href="#">trig</a>	compatible				2024-07-06
<a href="#">unicode-math</a>	compatible				2024-07-12
<a href="#">url</a>	compatible	An old issue has been fixed.	<a href="#">#5</a>		2024-07-06

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">varioref</a>	compatible		<a href="#">test(s)</a>		2024-07-11
<a href="#">verse</a>	compatible	firstaid is required for the fix of issue 49  Tagging support: phase-III, firstaid.	<a href="#">#49</a>		2024-07-06
<a href="#">XCharter</a>	compatible				2024-07-13
<a href="#">xcolor</a>	compatible				2024-07-07

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">url</a>	compatible	An old issue has been fixed.	<a href="#">#5</a>		2024-07-06
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Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">varioref</a>	compatible		<a href="#">test(s)</a>		2024-07-11
<a href="#">verse</a>	compatible	firstaid is required for the fix of issue 49  Tagging support: <b>phase-III, firstaid.</b>	<a href="#">#49</a>		2024-07-06
<a href="#">XCharter</a>	compatible				2024-07-13
<a href="#">xcolor</a>	compatible				2024-07-07
<a href="#">xr</a>	compatible				2024-07-07
<a href="#">xr-hyper</a>	compatible	Package now identical to xr, thus not necessary any longer when hyperref is used.			2024-07-10
<a href="#">xspace</a>	compatible		<a href="#">test(s)</a>		2024-07-08
<a href="#">afterpage</a>	partially-compatible		<a href="#">test(s)</a>	more tests needed	2024-07-12

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		Tagging support: <b>phase-III, firstaid</b> .			
<b>XCharter</b>	<b>compatible</b>				2024-07-13
<b>xcolor</b>	<b>compatible</b>				2024-07-07
<b>xr</b>	<b>compatible</b>				2024-07-07
<b>xr-hyper</b>	<b>compatible</b>	Package now identical to xr, thus not necessary any longer when hyperref is used.			2024-07-10
<b>xspace</b>	<b>compatible</b>		<b>test(s)</b>		2024-07-08
<b>afterpage</b>	<b>partially-compatible</b>		<b>test(s)</b>	more tests needed	2024-07-12
<b>amsbsy</b>	<b>partially-compatible</b>	pmb produces extra tags from typesetting argument three times  Tagging support: <b>phase-III, math</b> .	<b>test(s)</b>		2024-07-09

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		used.			
<b>xspace</b>	<b>compatible</b>		<a href="#">test(s)</a>		2024-07-08
<b>afterpage</b>	<b>partially-compatible</b>		<a href="#">test(s)</a>	more tests needed	2024-07-12
<b>amsbsy</b>	<b>partially-compatible</b>	pmb produces extra tags from typesetting argument three times Tagging support: <b>phase-III, math.</b>	<a href="#">test(s)</a>		2024-07-09

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<b>amsmath</b>	<b>partially-compatible</b>	Use of math tagging currently requires support from external tools. See <a href="#">[1]</a> <a href="#">[2]</a> Tagging support: <b>phase-III, math.</b>	<a href="#">#77</a>	also needs more tests	2024-07-08



# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		Tagging support: phase-III, math.			
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Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">amsmath</a>	partially-compatible	Use of math tagging currently requires support from external tools.  See <a href="#">[1]</a> <a href="#">[2]</a> Tagging support: <b>phase-III, math</b> .	<a href="#">#77</a>	also needs more tests	2024-07-08
<a href="#">biblatex</a>	partially-compatible	Requires hyperref.  See <a href="#">[2]</a>	<a href="#">#18</a> Other: <a href="#">biblatex/1366</a>		2024-07-07
<a href="#">biblatex-chicago</a>	partially-compatible	See biblatex. The package should at some time use sockets in its footnote adaption.	<a href="#">#62</a>		2024-07-06
<a href="#">booktabs</a>	partially-compatible	requires the firstaid module which contains a fix.	<a href="#">#69 test(s)</a>		2024-07-08

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">amsmath</a>	<b>partially-compatible</b>	Use of math tagging currently requires support from external tools.  See <a href="#">[1]</a> <a href="#">[2]</a> Tagging support: <b>phase-III, math</b> .	<a href="#">#77</a>	also needs more tests	2024-07-08
<a href="#">biblatex</a>	<b>partially-compatible</b>	Requires hyperref.  See <a href="#">[2]</a>	<a href="#">#18</a> Other: <a href="#">biblatex/1366</a>		2024-07-07
<a href="#">biblatex-chicago</a>	<b>partially-compatible</b>	See biblatex. The package should at some time use sockets in its footnote adaption.	<a href="#">#62</a>		2024-07-06
<a href="#">booktabs</a>	<b>partially-compatible</b>	requires the firstaid module which contains a fix.  Tagging support: <b>phase-III, firstaid, table</b> .	<a href="#">#69 test(s)</a>		2024-07-08
<a href="#">cleveref</a>	<b>partially-compatible</b>	Partially supported in the firstaid module, but open issue with hyperref (workaround suggested)  Tagging support: <b>phase-III, firstaid</b> .	<a href="#">#2 test(s)</a>		2024-07-08
<a href="#">csquotes</a>	<b>partially-</b>	<code>blockquote</code> can't be used	<a href="#">#3</a>		2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

	<b>compatible</b>	some time use sockets in its footnote adaption.			
<b>booktabs</b>	<b>partially-compatible</b>	requires the firstaid module which contains a fix.  Tagging support: <b>phase-III, firstaid, table.</b>	<a href="#">#69 test(s)</a>		2024-07-08
<b>cleveref</b>	<b>partially-compatible</b>	Partially supported in the firstaid module, but open issue with hyperref (workaround suggested)  Tagging support: <b>phase-III, firstaid.</b>	<a href="#">#2 test(s)</a>		2024-07-08
<b>csquotes</b>	<b>partially-compatible</b>	<code>blockquote</code> can't be used.	<a href="#">#3</a>		2024-07-06

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<b>dcolumn</b>	<b>partially-compatible</b>	<code>d</code> columns are set as text not math, which is arguably correct, but needs some further evaluation.	<a href="#">test(s)</a>		2024-07-08

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

	<b>compatible</b>	... module, but open issue with hyperref (workaround suggested)  Tagging support: <b>phase-III, firstaid</b> .			
<b>csquotes</b>	<b>partially-compatible</b>	<code>blockquote</code> can't be used.	<a href="#">#3</a>		2024-07-06

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<b>dcolumn</b>	<b>partially-compatible</b>	<code>d</code> columns are set as text not math, which is arguably correct, but needs some further evaluation.	<a href="#">test(s)</a>		2024-07-08
<b>enumitem</b>	<b>partially-compatible</b>	The package itself can't be loaded right now. However, the tagging code supports (most of) the document-level syntax of <code>enumitem</code> , so that one can use, for example, <code>\begin{itemize}</code> [...] out of the box.  See <a href="#">[1]</a>	<a href="#">#61</a> Related: <a href="#">#4</a>	Check which keys are not yet supported and what else is missing.	2024-07-06
<b>enumitem</b>	<b>partially-compatible</b>	... validation that is not	<a href="#">#4463</a>		2024-07-08

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">dcolumn</a>	partially-compatible	<code>d</code> columns are set as text not math, which is arguably correct, but needs some further evaluation.	<a href="#">test(s)</a>		2024-07-08
<a href="#">enumitem</a>	partially-compatible	The package itself can't be loaded right now. However, the tagging code supports (most of) the document-level syntax of <code>enumitem</code> , so that one can use, for example, <code>\begin{itemize}</code> [...] out of the box.  See <a href="#">[1]</a>	<a href="#">#61</a> Related: <a href="#">#4</a>	Check which keys are not yet supported and what else is missing.	2024-07-06
<a href="#">graphpap</a>	partially-compatible	tagging passes validation but is sub-optimal	<a href="#">test(s)</a>		2024-07-08
<a href="#">latexrelease</a>	partially-compatible	Rolling the LaTeX format too far back will result in the loss of necessary support code for tagging, rolling forward should work.		determine how far back is possible	2024-07-06
<a href="#">longtable</a>	partially-compatible	longtables with page breaks works only with luatex	<a href="#">#22</a> Related: <a href="#">#38</a>		2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		<p>syntax of <code>enumitem</code>, so that one can use, for example, <code>\begin{itemize}</code> [...] out of the box.</p> <p>See [1]</p>		supported and what else is missing.	
<a href="#">graphpap</a>	partially-compatible	tagging passes validation but is sub-optimal	<a href="#">test(s)</a>		2024-07-08
<a href="#">latexrelease</a>	partially-compatible	Rolling the LaTeX format too far back will result in the loss of necessary support code for tagging, rolling forward should work.		determine how far back is possible	2024-07-06
<a href="#">longtable</a>	partially-compatible	longtables with page breaks works only with luatex	<a href="#">#22</a> Related: <a href="#">#38</a>		2024-07-06
<a href="#">showkeys</a>	partially-compatible	Rules drawn around labels display as Path in tags and the label in the margin is either not tagged at all (pdf <sub>l</sub> atex) or	<a href="#">test(s)</a>		2024-07-11
Name	Status	Comments	Relevant issue(s)	Tasks	Last updated

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

	<b>compatible</b>	will result in the loss of necessary support code for tagging, rolling forward should work.		how far back is possible	
<a href="#">longtable</a>	<b>partially-compatible</b>	longtables with page breaks works only with luatex  Tagging support: <b>phase-III, table</b> .	<a href="#">#22</a> Related: <a href="#">#38</a>		2024-07-06
<a href="#">showkeys</a>	<b>partially-compatible</b>	Rules drawn around labels display as Path in tags and the label in the margin is either not tagged at all (pdflatex) or	<a href="#">test(s)</a>		2024-07-11
Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
		as artifact (lualatex). Unproblematic for a draft, but not UA compatible.			
<a href="#">tcolorbox</a>	<b>partially-compatible</b>	Not yet fully supported, but some suggestions in the listed issues	<a href="#">#73</a> <a href="#">#88</a>	needs further tests	2024-07-06
<a href="#">amsthm</a>	<b>currently-incompatible</b>		<a href="#">#83</a> <a href="#">test(s)</a>		2024-07-08
<a href="#">caption</a>	<b>currently-</b>	the configurations from the package	<a href="#">#84</a> <a href="#">test(s)</a>		2024-07-08

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
	<b>compatible</b>	Path in tags and the label in the margin is either not tagged at all (pdflatex) or as artifact (lualatex). Unproblematic for a draft, but not UA compatible.			
<b>tcolorbox</b>	<b>partially-compatible</b>	Not yet fully supported, but some suggestions in the listed issues	<a href="#">#73</a> <a href="#">#88</a>	needs further tests	2024-07-06
<b>amsthm</b>	<b>currently-incompatible</b>		<a href="#">#83</a> <a href="#">test(s)</a>		2024-07-08
<b>caption</b>	<b>currently-incompatible</b>	the configurations from the package are overwritten by the tagging code. Issue when hyperref and both listoffigures are used.	<a href="#">#84</a> <a href="#">test(s)</a>		2024-07-08
<b>doc</b>	<b>currently-incompatible</b>		<a href="#">#44</a>		2024-07-06
<b>enumerate</b>	<b>currently-incompatible</b>	See <a href="#">[1]</a>			2024-07-06
<b>fancvrb</b>	<b>currently-</b>	See <a href="#">[1]</a>		needs tests	2024-07-06



# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

	<b>compatible</b>	suggestions in the listed issues		tests	
<b>amsthm</b>	<b>currently-incompatible</b>		<a href="#">#83 test(s)</a>		2024-07-08
<b>caption</b>	<b>currently-incompatible</b>	the configurations from the package are overwritten by the tagging code. Issue when hyperref and both listoffigures are used.	<a href="#">#84 test(s)</a>		2024-07-08
<b>doc</b>	<b>currently-incompatible</b>		<a href="#">#44</a>		2024-07-06
<b>enumerate</b>	<b>currently-incompatible</b>	See <a href="#">[1]</a>			2024-07-06
<b>fancyvrb</b>	<b>currently-incompatible</b>	See <a href="#">[1]</a>		needs tests	2024-07-06
<b>float</b>	<b>currently-incompatible</b>	[H] floats are not yet automatically tagged. See <a href="#">[2]</a>		needs tests	2024-07-06
<b>ftnright</b>	<b>currently-incompatible</b>		<a href="#">#110 test(s)</a>		2024-07-11

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">doc</a>	currently-incompatible		<a href="#">#44</a>		2024-07-06
<a href="#">enumerate</a>	currently-incompatible	See <a href="#">[1]</a>			2024-07-06
<a href="#">fancyvrb</a>	currently-incompatible	See <a href="#">[1]</a>		needs tests	2024-07-06
<a href="#">float</a>	currently-incompatible	[H] floats are not yet automatically tagged. See <a href="#">[2]</a>		needs tests	2024-07-06
<a href="#">ftnright</a>	currently-incompatible		<a href="#">#110 test(s)</a>		2024-07-11

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">hhline</a>	currently-incompatible	breaks with errors Tagging support: <a href="#">phase-III</a> , <a href="#">table</a> .	<a href="#">#66 test(s)</a>	needs further tests	2024-07-10
<a href="#">layout</a>	currently-incompatible		<a href="#">#111 test(s)</a>		2024-07-11

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		See <a href="#">[2]</a>		
<a href="#">ftnright</a>	currently-incompatible		<a href="#">#110 test(s)</a>	2024-07-11

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">hhline</a>	currently-incompatible	breaks with errors Tagging support: <code>phase-III</code> , <code>table</code> .	<a href="#">#66 test(s)</a>	needs further tests	2024-07-10
<a href="#">layout</a>	currently-incompatible		<a href="#">#111 test(s)</a>		2024-07-11
<a href="#">listings</a>	currently-incompatible	See definition in <code>tagpdfdocu-patches.sty</code> .  See <a href="#">[1]</a>	<a href="#">#70</a> Related: <a href="#">#41 test(s)</a>		2024-07-12
<a href="#">luatexja</a>	currently-incompatible	overwrites <code>tabular/array</code> commands	<a href="#">#87</a>		2024-07-06
<a href="#">pdfpages</a>	currently-incompatible	Creates duplicated structures as graphics are processed more than once in trial typesetting. Correct tagging of <code>multiseps</code> includes <code>unclass</code>	<a href="#">#86</a>	needs tests	2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

	<b>incompatible</b>	Tagging support: <b>phase-III, table.</b>		tests	
<b>layout</b>	<b>currently-incompatible</b>		<a href="#">#111 test(s)</a>		2024-07-11
<b>listings</b>	<b>currently-incompatible</b>	See definition in tagpdfdocu-patches.sty.  See <a href="#">[1]</a>	<a href="#">#70</a> Related: <a href="#">#41 test(s)</a>		2024-07-12
<b>luatexja</b>	<b>currently-incompatible</b>	overwrites tabular/array commands	<a href="#">#87</a>		2024-07-06
<b>pdfpages</b>	<b>currently-incompatible</b>	Creates duplicated structures as graphics are processed more than once in trial typesetting. Correct tagging of multipage includes unclear.	<a href="#">#86</a>	needs tests	2024-07-06
<b>pstricks</b>	<b>currently-incompatible</b>	Tagging passes validation but is suboptimal. Future compatibility will only be with luatex; dvips cannot properly support PDF/UA.	<a href="#">test(s)</a>		2024-07-12
<b>rotating</b>	<b>currently-incompatible</b>		<a href="#">#112 test(s)</a>		2024-07-11
<b>chewidy</b>	<b>currently-</b>		<a href="#">#115 test(s)</a>		2024-07-11



# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		Only be with pdflatex, dvips cannot properly support PDF/UA.		
<b>rotating</b>	<b>currently-incompatible</b>		<a href="#">#112 test(s)</a>	2024-07-11
<b>showidx</b>	<b>currently-incompatible</b>		<a href="#">#115 test(s)</a>	2024-07-11

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<b>subcaption</b>	<b>currently-incompatible</b>	Issue when hyperref and both listoffigures are used.	<a href="#">#85</a>		2024-07-06
<b>theorem</b>	<b>currently-incompatible</b>		<a href="#">test(s)</a>		2024-07-10
<b>tikz</b>	<b>currently-incompatible</b>	See <a href="#">[2]</a>			2024-07-06
<b>tikz-cd</b>	<b>currently-incompatible</b>		<a href="#">#30</a>		2024-07-06
<b>titlesec</b>	<b>currently-incompatible</b>		<a href="#">#24</a>		2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">subcaption</a>	currently-incompatible	Issue when hyperref and both listoffigures are used.	<a href="#">#85</a>		2024-07-06
<a href="#">theorem</a>	currently-incompatible		<a href="#">test(s)</a>		2024-07-10
<a href="#">tikz</a>	currently-incompatible	See <a href="#">[2]</a>			2024-07-06
<a href="#">tikz-cd</a>	currently-incompatible		<a href="#">#30</a>		2024-07-06
<a href="#">titlesec</a>	currently-incompatible		<a href="#">#24</a>		2024-07-06
<a href="#">titletoc</a>	currently-incompatible	Mentioned in issue.	<a href="#">#24</a>		2024-07-06
<a href="#">tocloft</a>	currently-incompatible	Packages attempts to redefine <code>\@starttoc</code> and fails.	<a href="#">#74 test(s)</a>		2024-07-12
<a href="#">varwidth</a>	currently-incompatible	Tagging structure looks ok, but the formatting is wrong when the tagging code is used.	<a href="#">#71 test(s)</a>	adjustments in block code needed?	2024-07-10

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">tikz-cd</a>	currently-incompatible		<a href="#">#30</a>		2024-07-06
<a href="#">titlesec</a>	currently-incompatible		<a href="#">#24</a>		2024-07-06
<a href="#">titletoc</a>	currently-incompatible	Mentioned in issue.	<a href="#">#24</a>		2024-07-06
<a href="#">tocloft</a>	currently-incompatible	Packages attempts to redefine <code>\@starttoc</code> and fails.	<a href="#">#74 test(s)</a>		2024-07-12
<a href="#">varwidth</a>	currently-incompatible	Tagging structure looks ok, but the formatting is wrong when the tagging code is used.	<a href="#">#71 test(s)</a>	adjustments in block code needed?	2024-07-10
<a href="#">wrapfig</a>	currently-incompatible	generated tagging structure is incorrect	<a href="#">#40 test(s)</a>		2024-07-10

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">lumen</a>	no support	Incompatible with PDF management			2024-07-07



# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<b>varwidth</b>	<b>currently-incompatible</b>	Tagging structure looks ok, but the formatting is wrong when the tagging code is used.	<a href="#">#71 test(s)</a>	adjustments in block code needed?	2024-07-10
<b>wrapfig</b>	<b>currently-incompatible</b>	generated tagging structure is incorrect	<a href="#">#40 test(s)</a>		2024-07-10

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<b>hyperxmp</b>	<b>no-support</b>	Incompatible with PDF management, loading is suppressed. XMP-metadata are handled by the kernel code.			2024-07-07
<b>mdframed</b>	<b>no-support</b>	Recommended alternative: tcolorbox.	<a href="#">#73</a>		2024-07-06
<b>pdfx</b>	<b>no-support</b>	Incompatible with PDF-management, loading is suppressed. Standards should be set with <code>\DocumentMetadata</code> keys.			2024-07-07

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">hyperxmp</a>	no-support	Incompatible with PDF management, loading is suppressed. XMP-metadata are handled by the kernel code.			2024-07-07
<a href="#">mdframed</a>	no-support	Recommended alternative: tcolorbox.	<a href="#">#73</a>		2024-07-06
<a href="#">pdfx</a>	no-support	Incompatible with PDF-management, loading is suppressed. Standards should be set with <code>\DocumentMetadata</code> keys.			2024-07-07
<a href="#">abraces</a>	unknown			needs tests	2024-07-13
<a href="#">abstract</a>	unknown			needs tests	2024-07-13
<a href="#">accents</a>	unknown			needs tests	2024-07-13
<a href="#">acro</a>	unknown			needs tests	2024-07-13

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<b>murrneu</b>	<b>no-support</b>	Recommended alternative: <code>colorbox</code> .	#13		2024-07-06
<b>pdfx</b>	<b>no-support</b>	Incompatible with PDF-management, loading is suppressed. Standards should be set with <code>\DocumentMetadata</code> keys.			2024-07-07
<b>abraces</b>	<b>unknown</b>			needs tests	2024-07-13
<b>abstract</b>	<b>unknown</b>			needs tests	2024-07-13
<b>accents</b>	<b>unknown</b>			needs tests	2024-07-13
<b>acro</b>	<b>unknown</b>			needs tests	2024-07-13
<b>addlines</b>	<b>unknown</b>			needs tests	2024-07-13
<b>adorn</b>	<b>unknown</b>			needs tests	2024-07-13
<b>adjustbox</b>	<b>unknown</b>			needs tests	2024-07-13
<b>alltt</b>	<b>unknown</b>			needs tests	2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">accents</a>	unknown			needs tests	2024-07-13
<a href="#">acro</a>	unknown			needs tests	2024-07-13
<a href="#">addlines</a>	unknown			needs tests	2024-07-13
<a href="#">adfor</a>	unknown			needs tests	2024-07-13
<a href="#">adjustbox</a>	unknown			needs tests	2024-07-13
<a href="#">allt</a>	unknown			needs tests	2024-07-06

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">amsfonts</a>	unknown			needs tests	2024-07-13
<a href="#">amsrefs</a>	unknown			needs tests	2024-07-13
<a href="#">amssymb</a>	unknown			needs tests	2024-07-13
<a href="#">amsxtra</a>	unknown			needs tests	2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">adjustbox</a>	unknown			needs tests	2024-07-13
<a href="#">alltt</a>	unknown			needs tests	2024-07-06

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">amsmath</a>	unknown			needs tests	2024-07-13
<a href="#">amsmath</a>	unknown			needs tests	2024-07-13
<a href="#">amssymb</a>	unknown			needs tests	2024-07-13
<a href="#">amsxtra</a>	unknown			needs tests	2024-07-06
<a href="#">antpolt</a>	unknown			needs tests	2024-07-13
<a href="#">apalike</a>	unknown			needs tests	2024-07-13
<a href="#">arabi</a>	unknown			needs tests	2024-07-13
<a href="#">arabicfront</a>	unknown			needs tests	2024-07-13

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<b>amsrefs</b>	<b>unknown</b>			needs tests	2024-07-13
<b>amssymb</b>	<b>unknown</b>			needs tests	2024-07-13
<b>amsxtra</b>	<b>unknown</b>			needs tests	2024-07-06
<b>antpolt</b>	<b>unknown</b>			needs tests	2024-07-13
<b>apalike</b>	<b>unknown</b>			needs tests	2024-07-13
<b>arabi</b>	<b>unknown</b>			needs tests	2024-07-13
<b>arabicfront</b>	<b>unknown</b>			needs tests	2024-07-13
<b>arabluatex</b>	<b>unknown</b>			needs tests	2024-07-13
<b>arydshln</b>	<b>unknown</b>			needs tests	2024-07-13
<b>asciilist</b>	<b>unknown</b>			needs tests	2024-07-13
<b>askinclud</b>	<b>unknown</b>			needs tests	2024-07-13
<b>astron</b>	<b>unknown</b>			needs tests	2024-07-13

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">apanc</a>	unknown			needs tests	2024-07-13
<a href="#">arabi</a>	unknown			needs tests	2024-07-13
<a href="#">arabicfront</a>	unknown			needs tests	2024-07-13
<a href="#">arabluatex</a>	unknown			needs tests	2024-07-13
<a href="#">arydshln</a>	unknown			needs tests	2024-07-13
<a href="#">asciilist</a>	unknown			needs tests	2024-07-13
<a href="#">askinclude</a>	unknown			needs tests	2024-07-13
<a href="#">astron</a>	unknown			needs tests	2024-07-13

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">authblk</a>	unknown			needs tests	2024-07-13
<a href="#">authdate1-4</a>	unknown			needs tests	2024-07-13

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">asciilist</a>	unknown			needs tests	2024-07-13
<a href="#">askinclude</a>	unknown			needs tests	2024-07-13
<a href="#">astron</a>	unknown			needs tests	2024-07-13

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">authblk</a>	unknown			needs tests	2024-07-13
<a href="#">authordate1-4</a>	unknown			needs tests	2024-07-13
<a href="#">bigfoot</a>	unknown	To be supported or not?		needs tests	2024-07-04
<a href="#">CJK</a>	unknown			needs tests	2024-07-13
<a href="#">CTeX</a>	unknown			needs tests	2024-07-13
<a href="#">footnote</a>	unknown	To be supported or not?		needs tests	2024-07-06
<a href="#">glossaries</a>	unknown	An old issue appears to be fixed.	<a href="#">#48</a>	needs tests	2024-07-06



# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

			issue(s)		updated
<a href="#">authblk</a>	unknown			needs tests	2024-07-13
<a href="#">authdate1-4</a>	unknown			needs tests	2024-07-13
<a href="#">bigfoot</a>	unknown	To be supported or not?		needs tests	2024-07-04
<a href="#">CJK</a>	unknown			needs tests	2024-07-13
<a href="#">CTeX</a>	unknown			needs tests	2024-07-13
<a href="#">footnote</a>	unknown	To be supported or not?		needs tests	2024-07-06
<a href="#">glossaries</a>	unknown	An old issue appears to be fixed.	<a href="#">#48</a>	needs tests	2024-07-06
<a href="#">lscap</a>	unknown			needs tests	2024-07-06
<a href="#">manyfoot</a>	unknown	To be supported or not?		needs tests	2024-07-06
<a href="#">mathtools</a>	unknown			needs tests	2024-07-06
<a href="#">verbatim</a>	unknown			needs tests	2024-07-06

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">CTeX</a>	unknown			needs tests	2024-07-13
<a href="#">footnote</a>	unknown	To be supported or not?		needs tests	2024-07-06
<a href="#">glossaries</a>	unknown	An old issue appears to be fixed.	<a href="#">#48</a>	needs tests	2024-07-06
<a href="#">lscape</a>	unknown			needs tests	2024-07-06
<a href="#">manyfoot</a>	unknown	To be supported or not?		needs tests	2024-07-06
<a href="#">mathtools</a>	unknown			needs tests	2024-07-06
<a href="#">verbatim</a>	unknown			needs tests	2024-07-06

## Classes

Statistics: The table currently holds 15 classes out of which 4 are fully compatible, 2 partially-compatible, 6 currently-incompatible, and 0 have no-support. The status for the remaining 3 classes is unknown.

Click on the column headings to sort the table by the chosen column.

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
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# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">mathtools</a>	unknown			needs tests	2024-07-06
<a href="#">verbatim</a>	unknown			needs tests	2024-07-06

## Classes

Statistics: The table currently holds 15 classes out of which 4 are fully `compatible`, 2 `partially-compatible`, 6 `currently-incompatible`, and 0 have `no-support`. The status for the remaining 3 classes is `unknown`.

Click on the column headings to sort the table by the chosen column.

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">article</a>	compatible	Tagging support: phase-III, title.			2024-07-05
<a href="#">book</a>	compatible	Tagging support: phase-III, title.			2024-07-05
<a href="#">proc</a>	compatible	Based on article class Tagging support: phase-III, title.	<a href="#">test(s)</a>		2024-07-11
<a href="#">report</a>	compatible	Tagging support: phase-III, title.			2024-07-05

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

and 0 have `no-support`. The status for the remaining 3 classes is `unknown`.

Click on the column headings to sort the table by the chosen column.

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">article</a>	compatible	Tagging support: phase-III, title.			2024-07-05
<a href="#">book</a>	compatible	Tagging support: phase-III, title.			2024-07-05
<a href="#">proc</a>	compatible	Based on article class Tagging support: phase-III, title.	<a href="#">test(s)</a>		2024-07-11
<a href="#">report</a>	compatible	Tagging support: phase-III, title.			2024-07-05
<a href="#">amsart</a>	partially-compatible	theorem environments not compatible, see amsthm. Used by project example arxiv3 Tagging support: phase-III, firstaid, title.		needs further tests	2024-07-07
<a href="#">amsbook</a>	partially-compatible	theorem environments not compatible, see amsthm. Tagging support: phase-III, firstaid, title.		needs further tests	2024-07-07

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<b>proc</b>	<b>compatible</b>	Based on article class Tagging support: <b>phase-III, title</b> .	<b>test(s)</b>		2024-07-11
<b>report</b>	<b>compatible</b>	Tagging support: <b>phase-III, title</b> .			2024-07-05
<b>amsart</b>	<b>partially-compatible</b>	theorem environments not compatible, see amsthm. Used by project example arxiv3 Tagging support: <b>phase-III, firstaid, title</b> .		needs further tests	2024-07-07
<b>amsbook</b>	<b>partially-compatible</b>	theorem environments not compatible, see amsthm. Tagging support: <b>phase-III, firstaid, title</b> .		needs further tests	2024-07-07
<b>amslatex</b>	<b>currently-incompatible</b>	See some needed adjustments in project example <code>amslatex</code>		needs further tests	2024-07-07
<b>beamer</b>	<b>currently-incompatible</b>				2024-07-07

Name	Status	Comments	Relevant	Tasks	Last
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# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

		Tagging support: <code>phase-III</code> , <code>firstaid</code> , <code>title</code> .			
<a href="#">amsbook</a>	partially-compatible	theorem environments not compatible, see <code>amsthm</code> . Tagging support: <code>phase-III</code> , <code>firstaid</code> , <code>title</code> .		needs further tests	2024-07-07
<a href="#">amslatex</a>	currently-incompatible	See some needed adjustments in project example <code>amslatex</code>		needs further tests	2024-07-07
<a href="#">beamer</a>	currently-incompatible				2024-07-07

Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">memoir</a>	currently-incompatible	Some code showing the needed adjustments can be found in the <a href="#">bible example</a>			2024-07-05
<a href="#">scrartcl</a>	currently-incompatible		Related: <a href="#">#88</a>		2024-07-10
<a href="#">scrbook</a>	currently-incompatible		Related: <a href="#">#88</a>		2024-07-10

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">beamer</a>	currently-incompatible				2024-07-07
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Name	Status	Comments	Relevant issue(s)	Tasks	Last updated
<a href="#">memoir</a>	currently-incompatible	Some code showing the needed adjustments can be found in the <a href="#">bible example</a>			2024-07-05
<a href="#">scrartcl</a>	currently-incompatible		Related: <a href="#">#88</a>		2024-07-10
<a href="#">scrbook</a>	currently-incompatible		Related: <a href="#">#88</a>		2024-07-10
<a href="#">scrreport</a>	currently-incompatible		Related: <a href="#">#88</a>		2024-07-10
<a href="#">letter</a>	unknown			needs tests	2024-07-06
<a href="#">scrletter</a>	unknown		Related: <a href="#">#88</a>		2024-07-10
<a href="#">scrlttr2</a>	unknown		Related: <a href="#">#88</a>		2024-07-10

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">scrartcl</a>	currently-incompatible		Related: <a href="#">#88</a>		2024-07-10
<a href="#">scrbook</a>	currently-incompatible		Related: <a href="#">#88</a>		2024-07-10
<a href="#">scrreport</a>	currently-incompatible		Related: <a href="#">#88</a>		2024-07-10
<a href="#">letter</a>	unknown			needs tests	2024-07-06
<a href="#">scrletter</a>	unknown		Related: <a href="#">#88</a>		2024-07-10
<a href="#">scrlttr2</a>	unknown		Related: <a href="#">#88</a>		2024-07-10

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## References

1. U. Fischer and F. Mittelbach. Automated tagging of LaTeX documents — what is possible today, in 2023? TUGboat, 44(2):262–266, 2023
2. F. Mittelbach and U. Fischer. Enhancing LaTeX to automatically produce tagged and accessible PDF. TUGboat, 45(1), 2024



# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

<a href="#">scrletter</a>	unknown		Related: <a href="#">#88</a>		2024-07-10
<a href="#">scrlltr2</a>	unknown		Related: <a href="#">#88</a>		2024-07-10

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## References

1. U. Fischer and F. Mittelbach. Automated tagging of LaTeX documents — what is possible today, in 2023? TUGboat, 44(2):262–266, 2023
2. F. Mittelbach and U. Fischer. Enhancing LaTeX to automatically produce tagged and accessible PDF. TUGboat, 45(1), 2024

# Tagging Status of L<sup>A</sup>T<sub>E</sub>X Packages and Classes

Z. F. MITTELBACH and U. FISCHER. Enhancing LaTeX to automatically produce tagged and accessible PDF. TUGboat, 45(1), 2024

## Progress in math tagging

- good math tagging requires PDF 2.0!
- the WTPDF examples embed math as MathML “associated file” (AF)
- the next Foxit version will pass the MathML to AT-tools like NVDA
- MathCAT plug-in for NVDA will process and read the MathML

## Math

$$|-1| = 1$$

## Output in NVDA Speechviewer

the absolute value of negative 1 is equal to 1

How to get the MathML?

- semi-automatic: latexml
- semi-automatic: tex4ht
- browser with mathjax
- manually
- plan: automate
- ...

## Next steps

- enumitem
- caption
- language switches
- extend package support
- ...

