Pandoc a universal document converter



pandoc -f markdown -o profile.pdf README.md --variable geometry:margin=1in

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Synopsis

pandoc [options] [input-file]...

Description

Pandoc is a Haskell library for converting from one markup format to another, and a command-line tool that uses this library. It can read Markdown, CommonMark, PHP Markdown Extra, GitHub-Flavored Markdown, MultiMarkdown, and (subsets of) Textile, reStructuredText, HTML, LaTeX, MediaWiki markup, TWiki markup, Haddock markup, OPML, Emacs Org mode, DocBook, txt2tags, EPUB, ODT and Word docx; and it can write plain text, Markdown, CommonMark, PHP Markdown Extra, GitHub-Flavored Markdown, MultiMarkdown,

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reStructuredText, XHTML, HTML5, LaTeX (including beamer slide shows), ConTeXt, RTF, OPML, DocBook, OpenDocument, ODT, Word docx, GNU Texinfo, MediaWiki markup, DokuWiki markup, ZimWiki markup, Haddock markup, EPUB (v2 or v3), FictionBook2, Textile, groff man pages, Emacs Org mode, AsciiDoc, InDesign ICML, TEI Simple, and Slidy, Slideous, DZSlides, reveal.js or S₅ HTML slide shows. It can also produce PDF output on systems where LaTeX, ConTeXt, or wkhtmltopdf is installed.

Pandoc's enhanced version of Markdown includes syntax for footnotes, tables, flexible ordered lists, definition lists, fenced code blocks, superscripts and subscripts, strikeout, metadata blocks, automatic tables of contents, embedded LaTeX math, citations, and Markdown inside HTML block elements. (These enhancements, described below under Pandoc's Markdown, can be disabled using the markdown strict input or output format.)

In contrast to most existing tools for converting Markdown to HTML, which use regex substitutions, pandoc has a modular design: it consists of a set of readers, which parse

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text in a given format and produce a native representation of the document, and a set of writers, which convert this native representation into a target format. Thus, adding an input or output format requires only adding a reader or writer.

Because pandoc's intermediate representation of a document is less expressive than many of the formats it converts between, one should not expect perfect conversions between every format and every other. Pandoc attempts to preserve the structural elements of a document, but not formatting details such as margin size. And some document elements, such as complex tables, may not fit into pandoc's simple document model. While conversions from pandoc's Markdown to all formats aspire to be perfect, conversions from formats more expressive than pandoc's Markdown can be expected to be lossy.

Using pandoc

If no *input-file* is specified, input is read from *stdin*. Otherwise, the *input-files* are concatenated (with a blank line between each) and used as input. Output goes to stdout

Indented code blocks **Fenced** code blocks Line blocks Lists **Bullet lists** The fourspace rule **Ordered** lists **Definition** lists Numbered example lists Compact and loose lists

by default (though output to *stdout* is disabled for the odt, docx, epub, and epub3 output formats). For output to a file, use the -o option:

```
pandoc -o output.html input.txt
```

By default, pandoc produces a document fragment, not a standalone document with a proper header and footer. To produce a standalone document, use the -s or -- standalone flag:

```
pandoc -s -o output.html input.txt
```

For more information on how standalone documents are produced, see Templates, below.

Instead of a file, an absolute URI may be given. In this case pandoc will fetch the content using HTTP:

```
pandoc -f html -t markdown http://www.fsf.org
```

If multiple input files are given, pandoc will concatenate them all (with blank lines between them) before parsing. This feature is disabled for binary input formats such as

Ending a EPUB, odt, and docx. list The format of the input and output can be specified Horizontal rules explicitly using command-line options. The input format **Tables** can be specified using the -r/--read or -f/--from Metadata blocks options, the output format using the -w/--write or -t/--**Backslash** to options. Thus, to convert hello.txt from Markdown to escapes LaTeX, you could type: **Smart punctuation Inline formatting** pandoc -f markdown -t latex hello.txt **Emphasis Strikeout** To convert hello.html from HTML to Markdown: **Superscripts** pandoc -f html -t markdown hello.html and subscripts Supported output formats are listed below under the -t/--**Verbatim** to option. Supported input formats are listed below under **Small caps** the -f/--from option. Note that the rst, textile, Math latex, and html readers are not complete; there are some **Raw HTML** constructs that they do not parse. Raw TeX LaTeX macros If the input or output format is not specified explicitly, Links pandoc will attempt to guess it from the extensions of the **Automatic** input and output filenames. Thus, for example,

links

Inline links

Reference

links

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links

Images

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Non-pandoc

extensions

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variants

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formats other than

Markdown

Producing slide shows

with pandoc

Structuring the

slide show

Incremental lists

pandoc -o hello.tex hello.txt

will convert hello.txt from Markdown to LaTeX. If no output file is specified (so that output goes to stdout), or if the output file's extension is unknown, the output format will default to HTML. If no input file is specified (so that input comes from *stdin*), or if the input files' extensions are unknown, the input format will be assumed to be Markdown unless explicitly specified.

Pandoc uses the UTF-8 character encoding for both input and output. If your local character encoding is not UTF-8, you should pipe input and output through iconv:

```
iconv -t utf-8 input.txt | pandoc | iconv -f utf-8
```

Note that in some output formats (such as HTML, LaTeX, ConTeXt, RTF, OPML, DocBook, and Texinfo), information about the character encoding is included in the document header, which will only be included if you use the -s/-standalone option.

Inserting pauses Styling the slides Speaker notes Frame attributes in beamer

Creating EPUBs with pandoc

EPUB Metadata Linked media **Literate Haskell support Syntax highlighting Custom writers Authors**

Creating a PDF

To produce a PDF, specify an output file with a .pdf extension. By default, pandoc will use LaTeX to convert it to PDF:

```
pandoc test.txt -o test.pdf
```

Production of a PDF requires that a LaTeX engine be installed (see --latex-engine, below), and assumes that the following LaTeX packages are available: amsfonts, amsmath, lm, ifxetex, ifluatex, eurosym, listings (if the --listings option is used), fancyvrb, longtable, booktabs, graphicx and grffile (if the document contains images), hyperref, ulem, geometry (with the geometry variable set), setspace (with linestretch), and babel (with lang). The use of xelatex or lualatex as the LaTeX engine requires fontspec; xelatex uses mathspec, polyglossia (with lang), xecjk, and bidi (with the dir variable set). The upquote and microtype packages are used if available, and csquotes will be used for smart punctuation if added to the template or included

in any header file. The natbib, biblatex, bibtex, and biber packages can optionally be used for citation rendering. These are included with all recent versions of TeX Live.

Alternatively, pandoc can use ConTeXt or wkhtmltopdf to create a PDF. To do this, specify an output file with a .pdf extension, as before, but add -t context or -t html5 to the command line.

PDF output can be controlled using variables for LaTeX (if LaTeX is used) and variables for ConTeXt (if ConTeXt is used). If wkhtmltopdf is used, then the variables marginleft, margin-right, margin-top, margin-bottom, and papersize will affect the output, as will --css.

ptions

General options

-f FORMAT, -r FORMAT, --from=FORMAT, -read=FORMAT

Specify input format. FORMAT can be native (native

Haskell), json (JSON version of native AST), markdown (pandoc's extended Markdown), markdown strict (original unextended Markdown), markdown phpextra (PHP Markdown Extra), markdown github (GitHub-Flavored Markdown), markdown mmd (MultiMarkdown), commonmark (CommonMark Markdown), textile (Textile), rst (reStructuredText), html (HTML), docbook (DocBook), t2t (txt2tags), docx (docx), odt (ODT), epub (EPUB), opml (OPML), org (Emacs Org mode), mediawiki (MediaWiki markup), twiki (TWiki markup), haddock (Haddock markup), or latex (LaTeX). If +lhs is appended to markdown, rst, latex, or html, the input will be treated as literate Haskell source: see Literate Haskell support, below. Markdown syntax extensions can be individually enabled or disabled by appending +EXTENSION or -EXTENSION to the format name. So, for example, markdown strict+footnotes+definition lists is strict Markdown with footnotes and definition lists

enabled, and markdownpipe tables+hard line breaks is pandoc's Markdown without pipe tables and with hard line breaks. See Pandoc's Markdown, below, for a list of extensions and their names.

-t FORMAT, -w FORMAT, --to=FORMAT, -write= FORMAT

Specify output format. FORMAT can be native (native Haskell), json (JSON version of native AST), plain (plain text), markdown (pandoc's extended Markdown), markdown strict (original unextended Markdown), markdown phpextra (PHP Markdown Extra), markdown github (GitHub-Flavored Markdown), markdown mmd (MultiMarkdown), commonmark (CommonMark Markdown), rst (reStructuredText), html (XHTML), html5 (HTML5), latex (LaTeX), beamer (LaTeX beamer slide show), context (ConTeXt), man (groff man), mediawiki (MediaWiki markup), dokuwiki (DokuWiki markup), zimwiki (ZimWiki markup), textile (Textile), org

(Emacs Org mode), texinfo (GNU Texinfo), opml (OPML), docbook (DocBook 4), docbook 5 (DocBook 5), opendocument (OpenDocument), odt (OpenOffice text document), docx (Word docx), haddock (Haddock markup), rtf (rich text format), epub (EPUB v2 book), epub3 (EPUB v3), fb2 (FictionBook2 e-book), asciidoc (AsciiDoc), icml (InDesign ICML), tei (TEI Simple), slidy (Slidy HTML and javascript slide show), slideous (Slideous HTML and javascript slide show), dzslides (DZSlides HTML5 + javascript slide show), revealjs (reveal.js HTML5 + javascript slide show), s5 (S5 HTML and javascript slide show), or the path of a custom lua writer (see Custom writers, below). Note that odt, epub, and epub3 output will not be directed to *stdout*; an output filename must be specified using the -o/--output option. If +lhs is appended to markdown, rst, latex, beamer, html, or html5, the output will be rendered as literate Haskell source: see Literate Haskell support, below. Markdown syntax extensions can be individually

enabled or disabled by appending +EXTENSION or -EXTENSION to the format name, as described above under -f.

-o FILE, --output=FILE

Write output to *FILE* instead of *stdout*. If *FILE* is –, output will go to stdout. (Exception: if the output format is odt, docx, epub, or epub3, output to stdout is disabled.)

--data-dir= DIRECTORY

Specify the user data directory to search for pandoc data files. If this option is not specified, the default user data directory will be used. This is, in Unix:

\$HOME/.pandoc

in Windows XP:

C:\Documents And Settings\USERNAME\Application Data\pand OC

and in Windows Vista or later:

C:\Users\USERNAME\AppData\Roaming\pandoc

You can find the default user data directory on your system by looking at the output of pandoc --version.

A reference.odt, reference.docx, epub.css, templates, slidy, slideous, or s5 directory placed in this directory will override pandoc's normal defaults.

--bash-completion

Generate a bash completion script. To enable bash completion with pandoc, add this to your .bashrc:

```
eval "$(pandoc --bash-completion)"
```

--verbose

Give verbose debugging output. Currently this only has an effect with PDF output.

-v, --version

Print version.

Show usage message.

Reader options

-R, --parse-raw

Parse untranslatable HTML codes and LaTeX environments as raw HTML or LaTeX, instead of ignoring them. Affects only HTML and LaTeX input. Raw HTML can be printed in Markdown, reStructuredText, Emacs Org mode, HTML, Slidy, Slideous, DZSlides, reveal.js, and S5 output; raw LaTeX can be printed in Markdown, reStructuredText, Emacs Org mode, LaTeX, and ConTeXt output. The default is for the readers to omit untranslatable HTML codes and LaTeX environments. (The LaTeX reader does pass through untranslatable LaTeX *commands*, even if -R is not specified.)

-S, --smart

Produce typographically correct output, converting straight quotes to curly quotes, --- to em-dashes, --to en-dashes, and ... to ellipses. Nonbreaking spaces are inserted after certain abbreviations, such as "Mr." (Note: This option is selected automatically when the

output format is latex or context, unless --no-texligatures is used. It has no effect for latex input.)

--old-dashes

Selects the pandoc <= 1.8.2.1 behavior for parsing smart dashes: - before a numeral is an en-dash, and -- is an em-dash. This option is selected automatically for textile input.

--base-header-level=NUMBER

Specify the base level for headers (defaults to 1).

--indented-code-classes= CLASSES

Specify classes to use for indented code blocks—for example, perl, numberLines or haskell. Multiple classes may be separated by spaces or commas.

--default-image-extension= EXTENSION

Specify a default extension to use when image paths/URLs have no extension. This allows you to use the same source for formats that require different kinds of images. Currently this option only affects the Markdown and LaTeX readers.

--file-scope

Parse each file individually before combining for multifile documents. This will allow footnotes in different files with the same identifiers to work as expected. If this option is set, footnotes and links will not work across files. Reading binary files (docx, odt, epub) implies --file-scope.

--filter= EXECUTABLE

Specify an executable to be used as a filter transforming the pandoc AST after the input is parsed and before the output is written. The executable should read JSON from stdin and write JSON to stdout. The JSON must be formatted like pandoc's own JSON input and output. The name of the output format will be passed to the filter as the first argument. Hence,

```
pandoc --filter ./caps.py -t latex
```

is equivalent to

```
pandoc -t json | ./caps.py latex | pandoc -f json -t lat
ех
```

The latter form may be useful for debugging filters.

Filters may be written in any language.

Text.Pandoc.JSON exports toJSONFilter to facilitate writing filters in Haskell. Those who would prefer to write filters in python can use the module pandocfilters, installable from PyPI. There are also pandoc filter libraries in PHP, perl, and javascript/node.js.

Note that the *EXECUTABLE* will be sought in the user's PATH, and not in the working directory, if no directory is provided. If you want to run a script in the working directory, preface the filename with ./.

-M KEY[=VAL], --metadata=KEY[:VAL]

Set the metadata field *KEY* to the value *VAL*. A value specified on the command line overrides a value specified in the document. Values will be parsed as YAML boolean or string values. If no value is specified, the value will be treated as Boolean true. Like ---

set. But unlike --variable, --metadata affects the metadata of the underlying document (which is accessible from filters and may be printed in some output formats).

--normalize

Normalize the document after reading: merge adjacent Str or Emph elements, for example, and remove repeated Space s.

-p, --preserve-tabs

Preserve tabs instead of converting them to spaces (the default). Note that this will only affect tabs in literal code spans and code blocks; tabs in regular text will be treated as spaces.

--tab-stop=NUMBER

Specify the number of spaces per tab (default is 4).

--track-changes=accept | reject | all

Specifies what to do with insertions, deletions, and comments produced by the MS Word "Track Changes" feature. accept (the default), inserts all insertions, and ignores all deletions. reject inserts all deletions and ignores insertions. Both accept and reject ignore comments. all puts in insertions, deletions, and comments, wrapped in spans with insertion, deletion, comment-start, and comment-end classes, respectively. The author and time of change is included. all is useful for scripting: only accepting changes from a certain reviewer, say, or before a certain date. This option only affects the docx reader.

--extract-media= DIR

Extract images and other media contained in a docx or epub container to the path *DIR*, creating it if necessary, and adjust the images references in the document so they point to the extracted files. This option only affects the docx and epub readers.

General writer options

-s, --standalone

Produce output with an appropriate header and footer (e.g. a standalone HTML, LaTeX, TEI, or RTF file, not a fragment). This option is set automatically for pdf, epub, epub3, fb2, docx, and odt output.

--template=FILE

Use *FILE* as a custom template for the generated document. Implies --standalone. See Templates, below, for a description of template syntax. If no extension is specified, an extension corresponding to the writer will be added, so that --template=special looks for special.html for HTML output. If the template is not found, pandoc will search for it in the templates subdirectory of the user data directory (see --data-dir). If this option is not used, a default template appropriate for the output format will be used (see -D/--print-default-template).

-v KEY[=VAL], --variable=KEY[:VAL]

Set the template variable *KEY* to the value *VAL* when rendering the document in standalone mode. This is generally only useful when the --template option is used to specify a custom template, since pandoc automatically sets the variables used in the default

templates. If no *VAL* is specified, the key will be given the value true.

-D FORMAT, --print-default-template=FORMAT Print the system default template for an output FORMAT. (See -t for a list of possible FORMATs.) Templates in the user data directory are ignored.

--print-default-data-file=FILE

Print a system default data file. Files in the user data directory are ignored.

--dpi =NUMBER

Specify the dpi (dots per inch) value for conversion from pixels to inch/centimeters and vice versa. The default is 96dpi. Technically, the correct term would be ppi (pixels per inch).

--wrap=[auto|none|preserve]

Determine how text is wrapped in the output (the source code, not the rendered version). With auto (the default), pandoc will attempt to wrap lines to the column width specified by --columns (default 80).

With none, pandoc will not wrap lines at all. With preserve, pandoc will attempt to preserve the wrapping from the source document (that is, where there are nonsemantic newlines in the source, there will be nonsemantic newlines in the output as well).

--no-wrap

Deprecated synonym for --wrap=none.

--columns=NUMBER

Specify length of lines in characters. This affects text wrapping in the generated source code (see --wrap). It also affects calculation of column widths for plain text tables (see Tables below).

--toc, --table-of-contents

Include an automatically generated table of contents (or, in the case of latex, context, docx, and rst, an instruction to create one) in the output document. This option has no effect on man, docbook, docbook5, slidy, slideous, s5, or odt output.

--toc-depth= NUMBER

Specify the number of section levels to include in the table of contents. The default is 3 (which means that level 1, 2, and 3 headers will be listed in the contents).

--no-highlight

Disables syntax highlighting for code blocks and inlines, even when a language attribute is given.

--highlight-style=STYLE

Specifies the coloring style to be used in highlighted source code. Options are pygments (the default), kate, monochrome, espresso, zenburn, haddock, and tango. For more information on syntax highlighting in pandoc, see Syntax highlighting, below.

-н FILE, --include-in-header=FILE

Include contents of *FILE*, verbatim, at the end of the header. This can be used, for example, to include special CSS or javascript in HTML documents. This option can be used repeatedly to include multiple files in the header. They will be included in the order specified. Implies --standalone.

-в FILE, --include-before-body=FILE

Include contents of *FILE*, verbatim, at the beginning of the document body (e.g. after the <body> tag in HTML, or the \begin{document} command in LaTeX). This can be used to include navigation bars or banners in HTML documents. This option can be used repeatedly to include multiple files. They will be included in the order specified. Implies --standalone.

-A FILE, --include-after-body=FILE

Include contents of *FILE*, verbatim, at the end of the document body (before the </body> tag in HTML, or the \end{document} command in LaTeX). This option can be used repeatedly to include multiple files. They will be included in the order specified. Implies standalone.

Options affecting specific writers

--self-contained

Produce a standalone HTML file with no external dependencies, using data: URIs to incorporate the

contents of linked scripts, stylesheets, images, and videos. The resulting file should be "self-contained," in the sense that it needs no external files and no net access to be displayed properly by a browser. This option works only with HTML output formats, including html, html5, html+lhs, html5+lhs, s5, slidy, slideous, dzslides, and revealjs. Scripts, images, and stylesheets at absolute URLs will be downloaded; those at relative URLs will be sought relative to the working directory (if the first source file is local) or relative to the base URL (if the first source file is remote). Limitation: resources that are loaded dynamically through JavaScript cannot be incorporated; as a result, --self-contained does not work with --mathjax, and some advanced features (e.g. zoom or speaker notes) may not work in an offline "self-contained" reveal.js slide show.

--html-q-tags

Use <q> tags for quotes in HTML.

Use only ascii characters in output. Currently supported only for HTML output (which uses numerical entities instead of UTF-8 when this option is selected).

--reference-links

Use reference-style links, rather than inline links, in writing Markdown or reStructuredText. By default inline links are used.

--atx-headers

Use ATX-style headers in Markdown and asciidoc output. The default is to use setext-style headers for levels 1-2, and then ATX headers.

-chapters

Treat top-level headers as chapters in LaTeX, ConTeXt, and DocBook output. When the LaTeX document class is set to report, book, or memoir (unless the article option is specified), this option is implied. If beamer is the output format, top-level headers will become \part{..}.

-N, --number-sections

Number section headings in LaTeX, ConTeXt, HTML, or EPUB output. By default, sections are not numbered. Sections with class unnumbered will never be numbered, even if --number-sections is specified.

--number-offset=NUMBER[, NUMBER, ...]

Offset for section headings in HTML output (ignored in other output formats). The first number is added to the section number for top-level headers, the second for second-level headers, and so on. So, for example, if you want the first top-level header in your document to be numbered "6", specify --number-offset=5. If your document starts with a level-2 header which you want to be numbered "1.5", specify --number-offset=1,4. Offsets are o by default. Implies --number-sections.

--no-tex-ligatures

Do not use the TeX ligatures for quotation marks, apostrophes, and dashes (`...', ``..'', --, ---) when writing or reading LaTeX or ConTeXt. In reading LaTeX, parse the characters , , and - literally, rather than parsing ligatures for quotation marks and dashes. In writing LaTeX or ConTeXt, print unicode quotation mark and dash characters literally, rather than converting them to the standard ASCII TeX ligatures. Note: normally --smart is selected automatically for LaTeX and ConTeXt output, but it must be specified explicitly if --no-tex-ligatures is selected. If you use literal curly quotes, dashes, and ellipses in your source, then you may want to use --notex-ligatures without --smart.

--listings

Use the <u>listings</u> package for LaTeX code blocks

-i, --incremental

Make list items in slide shows display incrementally (one by one). The default is for lists to be displayed all at once.

--slide-level=NUMBER

Specifies that headers with the specified level create

slides (for beamer, s5, slidy, slideous, dzslides). Headers above this level in the hierarchy are used to divide the slide show into sections; headers below this level create subheads within a slide. The default is to set the slide level based on the contents of the document; see Structuring the slide show.

-section-divs

Wrap sections in <div> tags (or <section> tags in HTML5), and attach identifiers to the enclosing <div> (or <section>) rather than the header itself. See Header identifiers, below.

--email-obfuscation=none | javascript | references Specify a method for obfuscating mailto: links in HTML documents. none leaves mailto: links as they are. javascript obfuscates them using javascript. references obfuscates them by printing their letters as decimal or hexadecimal character references. The default is none.

--id-prefix=STRING

Specify a prefix to be added to all automatically generated identifiers in HTML and DocBook output, and to footnote numbers in Markdown output. This is useful for preventing duplicate identifiers when generating fragments to be included in other pages.

-T STRING, --title-prefix=STRING

Specify STRING as a prefix at the beginning of the title that appears in the HTML header (but not in the title as it appears at the beginning of the HTML body). Implies --standalone.

-c URL, --css= URL

Link to a CSS style sheet. This option can be used repeatedly to include multiple files. They will be included in the order specified.

--reference-odt=FILE

Use the specified file as a style reference in producing an ODT. For best results, the reference ODT should be a modified version of an ODT produced using pandoc. The contents of the reference ODT are ignored, but its

stylesheets are used in the new ODT. If no reference ODT is specified on the command line, pandoc will look for a file reference.odt in the user data directory (see --data-dir). If this is not found either, sensible defaults will be used.

--reference-docx=FILE

Use the specified file as a style reference in producing a docx file. For best results, the reference docx should be a modified version of a docx file produced using pandoc. The contents of the reference docx are ignored, but its stylesheets and document properties (including margins, page size, header, and footer) are used in the new docx. If no reference docx is specified on the command line, pandoc will look for a file reference.docx in the user data directory (see -data-dir). If this is not found either, sensible defaults will be used. The following styles are used by pandoc: [paragraph] Normal, Body Text, First Paragraph, Compact, Title, Subtitle, Author, Date, Abstract, Bibliography, Heading 1, Heading 2, Heading 3,

Heading 4, Heading 5, Heading 6, Block Text, Footnote Text, Definition Term, Definition, Caption, Table Caption, Image Caption, Figure, Figure With Caption, TOC Heading; [character] Default Paragraph Font, Body Text Char, Verbatim Char, Footnote Reference, Hyperlink; [table] Normal Table.

--epub-stylesheet=FILE

Use the specified CSS file to style the EPUB. If no stylesheet is specified, pandoc will look for a file epub.css in the user data directory (see --data-dir). If it is not found there, sensible defaults will be used.

-epub-cover-image= FILE

Use the specified image as the EPUB cover. It is recommended that the image be less than 1000px in width and height. Note that in a Markdown source document you can also specify cover-image in a YAML metadata block (see EPUB Metadata, below).

--epub-metadata= FILE

Look in the specified XML file for metadata for the

EPUB. The file should contain a series of Dublin Core elements. For example:

```
<dc:rights>Creative Commons</dc:rights>
<dc:language>es-AR</dc:language>
```

By default, pandoc will include the following metadata elements: <dc:title> (from the document title), <dc:creator> (from the document authors), <dc:date> (from the document date, which should be in ISO 8601 format), <dc:language> (from the lang variable, or, if is not set, the locale), and <dc:identifier id="BookId"> (a randomly generated UUID). Any of these may be overridden by elements in the metadata file.

Note: if the source document is Markdown, a YAML metadata block in the document can be used instead. See below under EPUB Metadata.

-epub-embed-font=FILE

Embed the specified font in the EPUB. This option can be repeated to embed multiple fonts. Wildcards can

also be used: for example, DejaVuSans-*.ttf.

However, if you use wildcards on the command line, be sure to escape them or put the whole filename in single quotes, to prevent them from being interpreted by the shell. To use the embedded fonts, you will need to add declarations like the following to your CSS (see --

epub-stylesheet):

```
@font-face {
font-family: DejaVuSans;
font-style: normal;
font-weight: normal;
src:url("DejaVuSans-Regular.ttf");
@font-face {
font-family: DejaVuSans;
font-style: normal;
font-weight: bold;
src:url("DejaVuSans-Bold.ttf");
@font-face {
font-family: DejaVuSans;
font-style: italic;
font-weight: normal;
src:url("DejaVuSans-Oblique.ttf");
@font-face {
font-family: DejaVuSans;
```

```
font-style: italic;
font-weight: bold;
src:url("DejaVuSans-BoldOblique.ttf");
body { font-family: "DejaVuSans"; }
```

-epub-chapter-level=NUMBER

Specify the header level at which to split the EPUB into separate "chapter" files. The default is to split into chapters at level 1 headers. This option only affects the internal composition of the EPUB, not the way chapters and sections are displayed to users. Some readers may be slow if the chapter files are too large, so for large documents with few level 1 headers, one might want to use a chapter level of 2 or 3.

--latex-engine=pdflatex | lualatex | xelatex

Use the specified LaTeX engine when producing PDF output. The default is pdflatex. If the engine is not in your PATH, the full path of the engine may be specified here.

--latex-engine-opt=STRING

Use the given string as a command-line argument to

the latex-engine. If used multiple times, the arguments are provided with spaces between them. Note that no check for duplicate options is done.

Citation rendering

--bibliography=FILE

Set the bibliography field in the document's metadata to *FILE*, overriding any value set in the metadata, and process citations using pandocciteproc. (This is equivalent to --metadata bibliography=FILE --filter pandoc-citeproc.) If --natbib or --biblatex is also supplied, pandocciteproc is not used, making this equivalent to -metadata bibliography=FILE. If you supply this argument multiple times, each FILE will be added to bibliography.

--csl=FILE

Set the csl field in the document's metadata to FILE, overriding any value set in the metadata. (This is equivalent to --metadata csl=FILE.) This option is

only relevant with pandoc-citeproc.

--citation-abbreviations= FILE

Set the citation-abbreviations field in the document's metadata to FILE, overriding any value set in the metadata. (This is equivalent to --metadata citation-abbreviations=FILE.) This option is only relevant with pandoc-citeproc.

--natbib

Use natbib for citations in LaTeX output. This option is not for use with the pandoc-citeproc filter or with PDF output. It is intended for use in producing a LaTeX file that can be processed with bibtex.

--biblatex

Use biblatex for citations in LaTeX output. This option is not for use with the pandoc-citeproc filter or with PDF output. It is intended for use in producing a LaTeX file that can be processed with bibtex or biber.

Math rendering in HTML

-m [URL], --latexmathml [=URL]

Use the LaTeXMathML script to display embedded TeX math in HTML output. To insert a link to a local copy of the LaTeXMathML.js script, provide a URL. If no *URL* is provided, the contents of the script will be inserted directly into the HTML header, preserving portability at the price of efficiency. If you plan to use math on several pages, it is much better to link to a copy of the script, so it can be cached.

--mathml [= URL]

Convert TeX math to MathML (in docbook, docbook5, html and html5). In standalone html output, a small javascript (or a link to such a script if a *URL* is supplied) will be inserted that allows the MathML to be viewed on some browsers.

--jsmath [= *URL*]

Use jsMath to display embedded TeX math in HTML output. The *URL* should point to the jsMath load script

(e.g. jsMath/easy/load.js); if provided, it will be linked to in the header of standalone HTML documents. If a *URL* is not provided, no link to the jsMath load script will be inserted; it is then up to the author to provide such a link in the HTML template.

--mathjax [=URL]

Use MathJax to display embedded TeX math in HTML output. The *URL* should point to the MathJax.js load script. If a *URL* is not provided, a link to the MathJax CDN will be inserted.

--gladtex

Enclose TeX math in <eq> tags in HTML output. These can then be processed by gladTeX to produce links to images of the typeset formulas.

--mimetex [= URL]

Render TeX math using the mimeTeX CGI script. If URL is not specified, it is assumed that the script is at /cgi-bin/mimetex.cgi.

-webtex [= URL]

Render TeX formulas using an external script that converts TeX formulas to images. The formula will be concatenated with the URL provided. If *URL* is not specified, the Google Chart API will be used. Note: the --webtex option will affect Markdown output as well as HTML.

--katex [= URL]

Use KaTeX to display embedded TeX math in HTML output. The *URL* should point to the katex.js load script. If a *URL* is not provided, a link to the KaTeX CDN will be inserted.

--katex-stylesheet= *URL*

The *URL* should point to the katex.css stylesheet. If this option is not specified, a link to the KaTeX CDN will be inserted. Note that this option does not imply – -katex.

Options for wrapper scripts

--dump-args

Print information about command-line arguments to

stdout, then exit. This option is intended primarily for use in wrapper scripts. The first line of output contains the name of the output file specified with the -o option, or - (for *stdout*) if no output file was specified. The remaining lines contain the command-line arguments, one per line, in the order they appear. These do not include regular pandoc options and their arguments, but do include any options appearing after a -- separator at the end of the line.

--ignore-args

Ignore command-line arguments (for use in wrapper scripts). Regular pandoc options are not ignored. Thus, for example,

```
pandoc --ignore-args -o foo.html -s foo.txt -- -e latin1
```

is equivalent to

```
pandoc -o foo.html -s
```

Templates

When the -s/--standalone option is used, pandoc uses a template to add header and footer material that is needed for a self-standing document. To see the default template that is used, just type

```
pandoc -D *FORMAT*
```

where *FORMAT* is the name of the output format. A custom template can be specified using the --template option. You can also override the system default templates for a given output format *FORMAT* by putting a file templates/default.*FORMAT* in the user data directory (see --data-dir, above). Exceptions:

- For odt output, customize the default.opendocument template.
- For pdf output, customize the default.latex template (or the default.beamer template, if you use -t beamer, or the default.context template, if you use -t context).
- docx has no template (however, you can use --reference-docx to customize the output).

Templates contain variables, which allow for the inclusion of arbitrary information at any point in the file. Variables may be set within the document using YAML metadata blocks. They may also be set at the command line using the -V/--variable option: variables set in this way override metadata fields with the same name.

Variables set by pandoc

Some variables are set automatically by pandoc. These vary somewhat depending on the output format, but include metadata fields as well as the following:

```
title, author, date
```

allow identification of basic aspects of the document. Included in PDF metadata through LaTeX and ConTeXt. These can be set through a pandoc title block, which allows for multiple authors, or through a YAML metadata block:

```
author:
- Aristotle
 Peter Abelard
```

subtitle

document subtitle, included in HTML, EPUB, LaTeX, ConTeXt, and Word docx; renders in LaTeX only when using a document class that supports \subtitle, such as beamer or the KOMA-Script series (scrartcl, scrreprt, scrbook).1

institute

author affiliations (in LaTeX and Beamer only). Can be a list, when there are multiple authors.

abstract

document summary, included in LaTeX, ConTeXt, AsciiDoc, and Word docx

keywords

list of keywords to be included in HTML, PDF, and AsciiDoc metadata; may be repeated as for author, above

header-includes

contents specified by -H/--include-in-header (may have multiple values)

```
toc
   non-null value if --toc/--table-of-contents was
   specified
toc-title
   title of table of contents (works only with EPUB and
   docx)
include-before
   contents specified by -B/--include-before-body
    (may have multiple values)
include-after
   contents specified by -A/--include-after-body (may
   have multiple values)
body
   body of document
meta-json
   JSON representation of all of the document's metadata
Language variables
lang
   identifies the main language of the document, using a
```

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code according to BCP 47 (e.g. en or en-GB). For some output formats, pandoc will convert it to an appropriate format stored in the additional variables babel-lang, polyglossia-lang (LaTeX) and context-lang (ConTeXt).

Native pandoc span's and div's with the lang attribute (value in BCP 47) can be used to switch the language in that range.

otherlangs

a list of other languages used in the document in the YAML metadata, according to BCP 47. For example: otherlangs: [en-GB, fr]. This is automatically generated from the lang attributes in all span's and div s but can be overridden. Currently only used by LaTeX through the generated babel-otherlangs and polyglossia-otherlangs variables. The LaTeX writer outputs polyglossia commands in the text but the babel-newcommands variable contains mappings for them to the corresponding babel.

dir

the base direction of the document, either rtl (rightto-left) or ltr (left-to-right).

For bidirectional documents, native pandoc span's and div s with the dir attribute (value rtl or ltr) can be used to override the base direction in some output formats. This may not always be necessary if the final renderer (e.g. the browser, when generating HTML) supports the Unicode Bidirectional Algorithm.

When using LaTeX for bidirectional documents, only the xelatex engine is fully supported (use --latexengine=xelatex).

Variables for slides

Variables are available for producing slide shows with pandoc, including all reveal.js configuration options.

```
slidy-url
```

base URL for Slidy documents (defaults to

http://www.w3.org/Talks/Tools/Slidy2)

```
slideous-url
   base URL for Slideous documents (defaults to
    slideous)
s5-url
   base URL for S<sub>5</sub> documents (defaults to s5/default)
revealjs-url
   base URL for reveal.js documents (defaults to
    reveal.js)
theme, colortheme, fonttheme, innertheme,
outertheme
   themes for LaTeX beamer documents
navigation
   controls navigation symbols in beamer documents
   (default is empty for no navigation symbols; other
   valid values are frame, vertical, and horizontal).
section-titles
   enables on "title pages" for new sections in beamer
   documents (default = true).
```

Variables for LaTeX

LaTeX variables are used when creating a PDF. papersize paper size, e.g. letter, A4 fontsize font size for body text (e.g. 10pt, 12pt) documentclass document class, e.g. article, report, book, memoir classoption option for document class, e.g. oneside; may be repeated for multiple options geometry option for geometry package, e.g. margin=lin; may be repeated for multiple options margin-left, margin-right, margin-top, marginbottom sets margins, if geometry is not used (otherwise geometry overrides these) linestretch adjusts line spacing using the setspace package, e.g.

1.25, 1.5

fontfamily

font package for use with pdflatex: TeX Live includes many options, documented in the LaTeX Font Catalogue. The default is Latin Modern.

fontfamilyoptions

options for package used as fontfamily: e.g. osf, sc with fontfamily set to mathpazo provides Palatino with old-style figures and true small caps; may be repeated for multiple options

mainfont, sansfont, monofont, mathfont,

CJKmainfont

font families for use with xelatex or lualatex: take the name of any system font, using the fontspec package. Note that if CJKmainfont is used, the xecjk package must be available.

mainfontoptions, sansfontoptions, monofontoptions, mathfontoptions, CJKoptions

options to use with mainfont, sansfont, monofont, mathfont, CJKmainfont in xelatex and lualatex. Allow for any choices available through fontspec, such as the OpenType features

Numbers=OldStyle, Numbers=Proportional. May be repeated for multiple options.

fontenc

allows font encoding to be specified through fontenc package (with pdflatex); default is T1 (see guide to LaTeX font encodings)

colorlinks

add color to link text; automatically enabled if any of linkcolor, citecolor, urlcolor, or toccolor are set

linkcolor, citecolor, urlcolor, toccolor color for internal links, citation links, external links, and links in table of contents: uses any of the predefined LaTeX colors

links-as-notes

causes links to be printed as footnotes

indent

uses document class settings for indentation (the

default LaTeX template otherwise removes indentation and adds space between paragraphs)

subparagraph

disables default behavior of LaTeX template that redefines (sub)paragraphs as sections, changing the appearance of nested headings in some classes

thanks

specifies contents of acknowledgments footnote after document title.

toc

include table of contents (can also be set using --toc/--table-of-contents)

toc-depth

level of section to include in table of contents

secnumdepth

numbering depth for sections, if sections are numbered

lof, lot

include list of figures, list of tables

bibliography

bibliography to use for resolving references

biblio-style

bibliography style, when used with --natbib and -biblatex.

biblatexoptions

list of options for biblatex.

Variables for ConTeXt

```
papersize
    paper size, e.g. letter, A4, landscape (see ConTeXt
    Paper Setup); may be repeated for multiple options
layout
    options for page margins and text arrangement (see
    ConTeXt Layout); may be repeated for multiple options
margin-left, margin-right, margin-top, margin-
bottom
    sets margins, if layout is not used (otherwise layout
    overrides these)
fontsize
    font size for body text (e.g. 10pt, 12pt)
mainfont, sansfont, monofont, mathfont
```

```
font families: take the name of any system font (see
   ConTeXt Font Switching)
linkcolor, contrastcolor
   color for links outside and inside a page, e.g. red,
    blue (see ConTeXt Color)
linkstyle
   typeface style for links, e.g. normal, bold, slanted,
    boldslanted, type, cap, small
indenting
   controls indentation of paragraphs, e.g.
    yes, small, next (see ConTeXt Indentation); may be
   repeated for multiple options
whitespace
   spacing between paragraphs, e.g. none, small (using
    setupwhitespace)
interlinespace
   adjusts line spacing, e.g. 4ex (using
    setupinterlinespace); may be repeated for multiple
   options
headertext, footertext
```

```
text to be placed in running header or footer (see
ConTeXt Headers and Footers); may be repeated up to
four times for different placement
```

pagenumbering

page number style and location (using setuppagenumbering); may be repeated for multiple options

toc

include table of contents (can also be set using --toc/--table-of-contents)

lof, lot

include list of figures, list of tables

Variables for man pages

section

section number in man pages

header

header in man pages

footer

footer in man pages

```
adjusting
   adjusts text to left (1), right (r), center (c), or both
    (b) margins
hyphenate
   if true (the default), hyphenation will be used
```

Using variables in templates

Variable names are sequences of alphanumerics, –, and __, starting with a letter. A variable name surrounded by \$ signs will be replaced by its value. For example, the string \$title\$ in

```
<title>$title$</title>
```

will be replaced by the document title.

To write a literal \$\\$\$ in a template, use \$\$\$.

Templates may contain conditionals. The syntax is as follows:

```
$if(variable)$
$else$
```

```
$endif$
```

This will include x in the template if variable has a nonnull value; otherwise it will include Y. X and Y are placeholders for any valid template text, and may include interpolated variables or other conditionals. The \$else\$ section may be omitted.

When variables can have multiple values (for example, author in a multi-author document), you can use the \$for\$ keyword:

```
$for(author)$
<meta name="author" content="$author$" />
$endfor$
```

You can optionally specify a separator to be used between consecutive items:

```
$for(author)$$author$$sep$, $endfor$
```

A dot can be used to select a field of a variable that takes an object as its value. So, for example:

\$author.name\$ (\$author.affiliation\$)

If you use custom templates, you may need to revise them as pandoc changes. We recommend tracking the changes in the default templates, and modifying your custom templates accordingly. An easy way to do this is to fork the pandoc-templates repository and merge in changes after each pandoc release.

Pandoc's Markdown

Pandoc understands an extended and slightly revised version of John Gruber's Markdown syntax. This document explains the syntax, noting differences from standard Markdown. Except where noted, these differences can be suppressed by using the markdown strict format instead of markdown. An extensions can be enabled by adding +EXTENSION to the format name and disabled by adding -EXTENSION. For example, markdown strict+footnotes is strict Markdown with footnotes enabled, while markdownfootnotes-pipe tables is pandoc's Markdown without footnotes or pipe tables.

Philosophy

Markdown is designed to be easy to write, and, even more importantly, easy to read:

A Markdown-formatted document should be publishable as-is, as plain text, without looking like it's been marked up with tags or formatting instructions. – John Gruber

This principle has guided pandoc's decisions in finding syntax for tables, footnotes, and other extensions.

There is, however, one respect in which pandoc's aims are different from the original aims of Markdown. Whereas Markdown was originally designed with HTML generation in mind, pandoc is designed for multiple output formats. Thus, while pandoc allows the embedding of raw HTML, it discourages it, and provides other, non-HTMLish ways of representing important document elements like definition lists, tables, mathematics, and footnotes.

Paragraphs

A paragraph is one or more lines of text followed by one or more blank lines. Newlines are treated as spaces, so you can reflow your paragraphs as you like. If you need a hard line break, put two or more spaces at the end of a line.

```
Extension: escaped line breaks
```

A backslash followed by a newline is also a hard line break. Note: in multiline and grid table cells, this is the only way to create a hard line break, since trailing spaces in the cells are ignored.

Headers

There are two kinds of headers: Setext and ATX.

Setext-style headers

A setext-style header is a line of text "underlined" with a row of = signs (for a level one header) or - signs (for a level two header):

```
A level-one header
============
A level-two header
```

The header text can contain inline formatting, such as emphasis (see Inline formatting, below).

ATX-style headers

An ATX-style header consists of one to six # signs and a line of text, optionally followed by any number of # signs. The number of # signs at the beginning of the line is the header level:

```
## A level-two header
### A level-three header ###
```

As with setext-style headers, the header text can contain formatting:

```
# A level-one header with a [link] (/url) and *emphasis*
```

```
Extension: blank before header
```

Standard Markdown syntax does not require a blank line before a header. Pandoc does require this (except, of course, at the beginning of the document). The reason for the

requirement is that it is all too easy for a # to end up at the beginning of a line by accident (perhaps through line wrapping). Consider, for example:

```
I like several of their flavors of ice cream:
#22, for example, and #5.
```

Header identifiers

```
Extension: header attributes
```

Headers can be assigned attributes using this syntax at the end of the line containing the header text:

```
{#identifier .class .class key=value key=value}
```

Thus, for example, the following headers will all be assigned the identifier foo:

```
# My header {#foo}
## My header ## {#foo}
My other header {#foo}
```

(This syntax is compatible with PHP Markdown Extra.)

Note that although this syntax allows assignment of classes and key/value attributes, writers generally don't use all of this information. Identifiers, classes, and key/value attributes are used in HTML and HTML-based formats such as EPUB and slidy. Identifiers are used for labels and link anchors in the LaTeX, ConTeXt, Textile, and AsciiDoc writers.

Headers with the class unnumbered will not be numbered, even if --number-sections is specified. A single hyphen (-) in an attribute context is equivalent to .unnumbered, and preferable in non-English documents. So,

```
# My header {-}
```

is just the same as

```
# My header {.unnumbered}
```

Extension: auto identifiers

A header without an explicitly specified identifier will be automatically assigned a unique identifier based on the header text. To derive the identifier from the header text,

- Remove all formatting, links, etc.
- Remove all footnotes.
- Remove all punctuation, except underscores, hyphens, and periods.
- Replace all spaces and newlines with hyphens.
- Convert all alphabetic characters to lowercase.
- Remove everything up to the first letter (identifiers may not begin with a number or punctuation mark).
- If nothing is left after this, use the identifier section.

Thus, for example,

Header	Identifier
Header identifiers in	header-identifiers-in-
HTML	html
Dogs?in *my* house?	dogsin-my-house
[HTML], [S5], or [RTF]?	html-s5-or-rtf
3. Applications	applications
33	section

These rules should, in most cases, allow one to determine the identifier from the header text. The exception is when several headers have the same text; in this case, the first

will get an identifier as described above; the second will get the same identifier with -1 appended; the third with -2; and so on.

These identifiers are used to provide link targets in the table of contents generated by the --toc|--table-ofcontents option. They also make it easy to provide links from one section of a document to another. A link to this section, for example, might look like this:

```
See the section on
[header identifiers] (#header-identifiers-in-html-latex-and-co
ntext).
```

Note, however, that this method of providing links to sections works only in HTML, LaTeX, and ConTeXt formats.

If the --section-divs option is specified, then each section will be wrapped in a div (or a section, if -html5 was specified), and the identifier will be attached to the enclosing <div> (or <section>) tag rather than the header itself. This allows entire sections to be manipulated using javascript or treated differently in CSS.

```
Extension: implicit header references
```

Pandoc behaves as if reference links have been defined for each header. So, to link to a header

```
# Header identifiers in HTML
```

you can simply write

```
[Header identifiers in HTML]
```

or

```
[Header identifiers in HTML][]
```

or

```
[the section on header identifiers][header identifiers in
HTML]
```

instead of giving the identifier explicitly:

```
[Header identifiers in HTML] (#header-identifiers-in-html)
```

If there are multiple headers with identical text, the corresponding reference will link to the first one only, and you will need to use explicit links to link to the others, as described above.

Like regular reference links, these references are caseinsensitive.

Explicit link reference definitions always take priority over implicit header references. So, in the following example, the link will point to bar, not to #foo:

```
# Foo
[foo]: bar
See [foo]
```

Block quotations

Markdown uses email conventions for quoting blocks of text. A block quotation is one or more paragraphs or other block elements (such as lists or headers), with each line preceded by a > character and an optional space. (The > need not start at the left margin, but it should not be indented more than three spaces.)

```
> This is a block quote. This
> paragraph has two lines.
> 1. This is a list inside a block quote.
> 2. Second item.
```

A "lazy" form, which requires the > character only on the first line of each block, is also allowed:

```
> This is a block quote. This
paragraph has two lines.
> 1. This is a list inside a block quote.
2. Second item.
```

Among the block elements that can be contained in a block quote are other block quotes. That is, block quotes can be nested:

```
> This is a block quote.
> > A block quote within a block quote.
```

If the > character is followed by an optional space, that space will be considered part of the block quote marker and not part of the indentation of the contents. Thus, to put an indented code block in a block quote, you need five spaces

after the >:

```
code
>
```

Extension: blank before blockquote

Standard Markdown syntax does not require a blank line before a block quote. Pandoc does require this (except, of course, at the beginning of the document). The reason for the requirement is that it is all too easy for a > to end up at the beginning of a line by accident (perhaps through line wrapping). So, unless the markdown strict format is used, the following does not produce a nested block quote in pandoc:

```
> This is a block quote.
>> Nested.
```

Verbatim (code) blocks

Indented code blocks

A block of text indented four spaces (or one tab) is treated as verbatim text: that is, special characters do not trigger

special formatting, and all spaces and line breaks are preserved. For example,

```
if (a > 3) {
 moveShip(5 * gravity, DOWN);
```

The initial (four space or one tab) indentation is not considered part of the verbatim text, and is removed in the output.

Note: blank lines in the verbatim text need not begin with four spaces.

Fenced code blocks

```
Extension: fenced code blocks
```

In addition to standard indented code blocks, pandoc supports fenced code blocks. These begin with a row of three or more tildes (~) and end with a row of tildes that must be at least as long as the starting row. Everything between these lines is treated as code. No indentation is necessary:

```
if (a > 3) {
 moveShip(5 * gravity, DOWN);
```

Like regular code blocks, fenced code blocks must be separated from surrounding text by blank lines.

If the code itself contains a row of tildes or backticks, just use a longer row of tildes or backticks at the start and end:

```
code including tildes
```

Extension: backtick code blocks

Same as fenced code blocks, but uses backticks (`) instead of tildes (~).

Extension: fenced code attributes

Optionally, you may attach attributes to fenced or backtick code block using this syntax:

```
~~~~ { #mycode .haskell .numberLines startFrom="100"}
```

```
qsort(x:xs) = qsort(filter(< x) xs) ++ [x] ++
              gsort (filter (>= x) xs)
```

Here mycode is an identifier, haskell and numberLines are classes, and startfrom is an attribute with value 100. Some output formats can use this information to do syntax highlighting. Currently, the only output formats that uses this information are HTML and LaTeX. If highlighting is supported for your output format and language, then the code block above will appear highlighted, with numbered lines. (To see which languages are supported, do pandoc -version.) Otherwise, the code block above will appear as follows:

```
<code>
</code>
```

A shortcut form can also be used for specifying the language of the code block:

```
haskell
```

```
qsort [] = []
```

This is equivalent to:

```
{.haskell}
qsort[] = []
```

If the fenced code attributes extension is disabled, but input contains class attribute(s) for the codeblock, the first class attribute will be printed after the opening fence as a bare word.

To prevent all highlighting, use the --no-highlight flag. To set the highlighting style, use --highlight-style. For more information on highlighting, see Syntax highlighting, below.

Line blocks

```
Extension: line blocks
```

A line block is a sequence of lines beginning with a vertical bar () followed by a space. The division into lines will be preserved in the output, as will any leading spaces;

otherwise, the lines will be formatted as Markdown. This is useful for verse and addresses:

```
The limerick packs laughs anatomical
In space that is quite economical.
    But the good ones I've seen
    So seldom are clean
| And the clean ones so seldom are comical
I 200 Main St.
| Berkeley, CA 94718
```

The lines can be hard-wrapped if needed, but the continuation line must begin with a space.

```
The Right Honorable Most Venerable and Righteous Samuel L.
 Constable, Jr.
| 200 Main St.
| Berkeley, CA 94718
```

This syntax is borrowed from reStructuredText.

Lists

Bullet lists

A bullet list is a list of bulleted list items. A bulleted list

item begins with a bullet (*, +, or -). Here is a simple example:

```
* one
* two
* three
```

This will produce a "compact" list. If you want a "loose" list, in which each item is formatted as a paragraph, put spaces between the items:

```
* one
* two
* three
```

The bullets need not be flush with the left margin; they may be indented one, two, or three spaces. The bullet must be followed by whitespace.

List items look best if subsequent lines are flush with the first line (after the bullet):

```
* here is my first
  list item.
* and my second.
```

But Markdown also allows a "lazy" format:

```
* here is my first
list item.
* and my second.
```

The four-space rule

A list item may contain multiple paragraphs and other block-level content. However, subsequent paragraphs must be preceded by a blank line and indented four spaces or a tab. The list will look better if the first paragraph is aligned with the rest:

```
* First paragraph.
    Continued.
  * Second paragraph. With a code block, which must be indent
ed
    eight spaces:
        { code }
```

List items may include other lists. In this case the preceding blank line is optional. The nested list must be indented four

spaces or one tab:

```
* fruits
    + apples
        - macintosh
        - red delicious
    + pears
    + peaches
* vegetables
    + broccoli
    + chard
```

As noted above, Markdown allows you to write list items "lazily," instead of indenting continuation lines. However, if there are multiple paragraphs or other blocks in a list item, the first line of each must be indented.

```
+ A lazy, lazy, list
item.
+ Another one; this looks
bad but is legal.
    Second paragraph of second
list item.
```

Note: Although the four-space rule for continuation paragraphs comes from the official Markdown syntax guide, the reference implementation, Markdown.pl, does not follow it. So pandoc will give different results than Markdown.pl when authors have indented continuation paragraphs fewer than four spaces.

The Markdown syntax guide is not explicit whether the four-space rule applies to *all* block-level content in a list item; it only mentions paragraphs and code blocks. But it implies that the rule applies to all block-level content (including nested lists), and pandoc interprets it that way.

Ordered lists

Ordered lists work just like bulleted lists, except that the items begin with enumerators rather than bullets.

In standard Markdown, enumerators are decimal numbers followed by a period and a space. The numbers themselves are ignored, so there is no difference between this list:

- one
- two
- three

and this one:

```
one
two
three
```

Extension: fancy lists

Unlike standard Markdown, pandoc allows ordered list items to be marked with uppercase and lowercase letters and roman numerals, in addition to arabic numerals. List markers may be enclosed in parentheses or followed by a single right-parentheses or period. They must be separated from the text that follows by at least one space, and, if the list marker is a capital letter with a period, by at least two spaces.2

The fancy lists extension also allows '#' to be used as an ordered list marker in place of a numeral:

```
#. one
#. two
```

Extension: startnum

Pandoc also pays attention to the type of list marker used, and to the starting number, and both of these are preserved where possible in the output format. Thus, the following yields a list with numbers followed by a single parenthesis, starting with 9, and a sublist with lowercase roman numerals:

```
Ninth
 9)
10)
     Tenth
    Eleventh
11)
       i. subone
      ii. subtwo
     iii. subthree
```

Pandoc will start a new list each time a different type of list marker is used. So, the following will create three lists:

```
(2) Two
(5) Three
    Four
    Five
```

If default list markers are desired, use #.:

```
one
two
three
```

Definition lists

```
Extension: definition lists
```

Pandoc supports definition lists, using the syntax of PHP Markdown Extra with some extensions.³

```
Term 1
    Definition 1
Term 2 with *inline markup*
    Definition 2
        { some code, part of Definition 2 }
    Third paragraph of definition 2.
```

Each term must fit on one line, which may optionally be followed by a blank line, and must be followed by one or more definitions. A definition begins with a colon or tilde, which may be indented one or two spaces.

A term may have multiple definitions, and each definition may consist of one or more block elements (paragraph, code block, list, etc.), each indented four spaces or one tab stop.

The body of the definition (including the first line, aside from the colon or tilde) should be indented four spaces. However, as with other Markdown lists, you can "lazily" omit indentation except at the beginning of a paragraph or other block element:

```
Term 1
    Definition
with lazy continuation.
    Second paragraph of the definition.
```

If you leave space before the definition (as in the example above), the text of the definition will be treated as a paragraph. In some output formats, this will mean greater spacing between term/definition pairs. For a more compact definition list, omit the space before the definition:

```
Term 1
  ~ Definition 1
Term 2
  ~ Definition 2a
  ~ Definition 2b
```

Note that space between items in a definition list is required. (A variant that loosens this requirement, but disallows "lazy" hard wrapping, can be activated with compact definition lists: see Non-pandoc extensions, below.)

Numbered example lists

```
Extension: example lists
```

The special list marker @ can be used for sequentially numbered examples. The first list item with a @ marker will be numbered '1', the next '2', and so on, throughout the document. The numbered examples need not occur in a single list; each new list using @ will take up where the last stopped. So, for example:

```
(@) My first example will be numbered (1).
   My second example will be numbered (2).
Explanation of examples.
   My third example will be numbered (3).
```

Numbered examples can be labeled and referred to

elsewhere in the document:

```
(@good) This is a good example.
As (@good) illustrates, ...
```

The label can be any string of alphanumeric characters, underscores, or hyphens.

Compact and loose lists

Pandoc behaves differently from Markdown.pl on some "edge cases" involving lists. Consider this source:

```
First
Second:
    Fee
    Fie
    Foe
Third
```

Pandoc transforms this into a "compact list" (with no tags around "First", "Second", or "Third"), while Markdown puts tags around "Second" and "Third" (but not "First"), because of the blank space around "Third". Pandoc follows a simple rule: if the text is followed by a blank line, it is treated as a paragraph. Since "Second" is followed by a list, and not a blank line, it isn't treated as a paragraph. The fact that the list is followed by a blank line is irrelevant. (Note: Pandoc works this way even when the markdown strict format is specified. This behavior is consistent with the official Markdown syntax description, even though it is different from that of Markdown.pl.)

Ending a list

What if you want to put an indented code block after a list?

```
item one
item two
{ my code block }
```

Trouble! Here pandoc (like other Markdown implementations) will treat { my code block } as the second paragraph of item two, and not as a code block.

To "cut off" the list after item two, you can insert some nonindented content, like an HTML comment, which won't produce visible output in any format:

```
item one
    item two
<!-- end of list -->
    { my code block }
```

You can use the same trick if you want two consecutive lists instead of one big list:

```
one
2. two
3. three
<!--->
   uno
2. dos
3. tres
```

Horizontal rules

A line containing a row of three or more *, -, or characters (optionally separated by spaces) produces a horizontal rule:

Tables

Four kinds of tables may be used. The first three kinds presuppose the use of a fixed-width font, such as Courier. The fourth kind can be used with proportionally spaced fonts, as it does not require lining up columns.

```
Extension: table captions
```

A caption may optionally be provided with all 4 kinds of tables (as illustrated in the examples below). A caption is a paragraph beginning with the string Table: (or just:), which will be stripped off. It may appear either before or after the table.

Extension: simple tables

Simple tables look like this:

Right	Left	Center	Default
12	2 12	12	12
123	3 123	123	123
1	1	1	1

Table: Demonstration of simple table syntax.

The headers and table rows must each fit on one line. Column alignments are determined by the position of the header text relative to the dashed line below it:4

- If the dashed line is flush with the header text on the right side but extends beyond it on the left, the column is right-aligned.
- If the dashed line is flush with the header text on the left side but extends beyond it on the right, the column is left-aligned.
- If the dashed line extends beyond the header text on both sides, the column is centered.
- If the dashed line is flush with the header text on both sides, the default alignment is used (in most cases, this will be left).

The table must end with a blank line, or a line of dashes followed by a blank line.

The column headers may be omitted, provided a dashed line is used to end the table. For example:

12 12 12 123 123 123 1 1 1 1 1 1				
1 1 1 1	12	12	12	12
	123	123	123	123
	1	1	1	1

When headers are omitted, column alignments are determined on the basis of the first line of the table body. So, in the tables above, the columns would be right, left, center, and right aligned, respectively.

```
Extension: multiline tables
```

Multiline tables allow headers and table rows to span multiple lines of text (but cells that span multiple columns or rows of the table are not supported). Here is an example:

Centered Header	Default Aligned	Right Aligned	
First	row	12.0	Example of a row that spans multiple lines.
Second	row	5.0	Here's another one. Note the blank line between rows.

```
Table: Here's the caption. It, too, may span
multiple lines.
```

These work like simple tables, but with the following differences:

- They must begin with a row of dashes, before the header text (unless the headers are omitted).
- They must end with a row of dashes, then a blank line.
- The rows must be separated by blank lines.

In multiline tables, the table parser pays attention to the widths of the columns, and the writers try to reproduce these relative widths in the output. So, if you find that one of the columns is too narrow in the output, try widening it in the Markdown source.

Headers may be omitted in multiline tables as well as simple tables:

```
First
                              12.0 Example of a row that
          row
                                   spans multiple lines.
                               5.0 Here's another one. Note
Second
          row
                                   the blank line between
```

```
rows.
: Here's a multiline table without headers.
```

It is possible for a multiline table to have just one row, but the row should be followed by a blank line (and then the row of dashes that ends the table), or the table may be interpreted as a simple table.

```
Extension: grid tables
```

Grid tables look like this:

```
: Sample grid table.
| Fruit | Price | Advantages
+=========+====+=====+
| Bananas | $1.34 | - built-in wrapper |
       | - bright color |
```

The row of = s separates the header from the table body, and can be omitted for a headerless table. The cells of grid tables may contain arbitrary block elements (multiple paragraphs, code blocks, lists, etc.). Alignments are not supported, nor are cells that span multiple columns or rows. Grid tables can be created easily using Emacs table mode.

```
Extension: pipe tables
```

Pipe tables look like this:

```
| Right | Left | Default | Center
 123 | 123 | 123 | 123
 1 | 1 | 1 | 1
 : Demonstration of pipe table syntax.
```

The syntax is identical to PHP Markdown Extra tables. The beginning and ending pipe characters are optional, but pipes are required between all columns. The colons indicate column alignment as shown. The header cannot be omitted. To simulate a headerless table, include a header with blank cells.

Since the pipes indicate column boundaries, columns need not be vertically aligned, as they are in the above example.

So, this is a perfectly legal (though ugly) pipe table:

```
fruit| price
apple | 2.05
pear | 1.37
orange | 3.09
```

The cells of pipe tables cannot contain block elements like paragraphs and lists, and cannot span multiple lines. If a pipe table contains a row whose printable content is wider than the column width (see --columns), then the cell contents will wrap, with the relative cell widths determined by the widths of the separator lines.

Note: pandoc also recognizes pipe tables of the following form, as can be produced by Emacs' orgtbl-mode:

```
| One | Two
my | table |
| is | nice
```

The difference is that + is used instead of | . Other orgtbl features are not supported. In particular, to get non-default column alignment, you'll need to add colons as above.

Metadata blocks

Extension: pandoc title block

If the file begins with a title block

```
% title
% author(s) (separated by semicolons)
% date
```

it will be parsed as bibliographic information, not regular text. (It will be used, for example, in the title of standalone LaTeX or HTML output.) The block may contain just a title, a title and an author, or all three elements. If you want to include an author but no title, or a title and a date but no author, you need a blank line:

```
% Author
% My title
% June 15, 2006
```

The title may occupy multiple lines, but continuation lines must begin with leading space, thus:

```
% My title
  on multiple lines
```

If a document has multiple authors, the authors may be put on separate lines with leading space, or separated by semicolons, or both. So, all of the following are equivalent:

```
% Author One
 Author Two
% Author One; Author Two
% Author One;
  Author Two
```

The date must fit on one line.

All three metadata fields may contain standard inline formatting (italics, links, footnotes, etc.).

Title blocks will always be parsed, but they will affect the output only when the --standalone (-s) option is chosen. In HTML output, titles will appear twice: once in the document head – this is the title that will appear at the top of the window in a browser – and once at the beginning of the document body. The title in the document head can

have an optional prefix attached (--title-prefix or -T option). The title in the body appears as an H1 element with class "title", so it can be suppressed or reformatted with CSS. If a title prefix is specified with -T and no title block appears in the document, the title prefix will be used by itself as the HTML title.

The man page writer extracts a title, man page section number, and other header and footer information from the title line. The title is assumed to be the first word on the title line, which may optionally end with a (single-digit) section number in parentheses. (There should be no space between the title and the parentheses.) Anything after this is assumed to be additional footer and header text. A single pipe character () should be used to separate the footer text from the header text. Thus,

```
% PANDOC(1)
```

will yield a man page with the title PANDOC and section 1.

```
% PANDOC(1) Pandoc User Manuals
```

will also have "Pandoc User Manuals" in the footer.

```
% PANDOC(1) Pandoc User Manuals | Version 4.0
```

will also have "Version 4.0" in the header.

```
Extension: yaml metadata block
```

A YAML metadata block is a valid YAML object, delimited by a line of three hyphens (---) at the top and a line of three hyphens (---) or three dots (. . .) at the bottom. A YAML metadata block may occur anywhere in the document, but if it is not at the beginning, it must be preceded by a blank line. (Note that, because of the way pandoc concatenates input files when several are provided, you may also keep the metadata in a separate YAML file and pass it to pandoc as an argument, along with your Markdown files:

```
pandoc chap1.md chap2.md chap3.md metadata.yaml -s -o book.ht
ml
```

Just be sure that the YAML file begins with ___ and ends with --- or)

Metadata will be taken from the fields of the YAML object and added to any existing document metadata. Metadata can contain lists and objects (nested arbitrarily), but all string scalars will be interpreted as Markdown. Fields with names ending in an underscore will be ignored by pandoc. (They may be given a role by external processors.)

A document may contain multiple metadata blocks. The metadata fields will be combined through a *left-biased* union: if two metadata blocks attempt to set the same field, the value from the first block will be taken.

When pandoc is used with -t markdown to create a Markdown document, a YAML metadata block will be produced only if the -s/--standalone option is used. All of the metadata will appear in a single block at the beginning of the document.

Note that YAML escaping rules must be followed. Thus, for example, if a title contains a colon, it must be quoted. The pipe character () can be used to begin an indented block that will be interpreted literally, without need for escaping. This form is necessary when the field contains blank lines:

```
title: 'This is the title: it contains a colon'
author:
- name: Author One
  affiliation: University of Somewhere
- name: Author Two
 affiliation: University of Nowhere
tags: [nothing, nothingness]
abstract: |
 This is the abstract.
 It consists of two paragraphs.
```

Template variables will be set automatically from the metadata. Thus, for example, in writing HTML, the variable abstract will be set to the HTML equivalent of the Markdown in the abstract field:

```
This is the abstract.
It consists of two paragraphs.
```

Note: The author variable in the default templates expects a simple list or string. To use the structured authors in the example, you would need a custom template. For example:

```
$for(author)$
```

```
$if(author.name)$
$author.name$$if(author.affiliation)$ ($author.affiliation$)$
endif$
$else$
$author$
$endif$
$endfor$
```

Backslash escapes

```
Extension: all symbols escapable
```

Except inside a code block or inline code, any punctuation or space character preceded by a backslash will be treated literally, even if it would normally indicate formatting. Thus, for example, if one writes

```
*\*hello\**
```

one will get

```
<em>*hello*</em>
```

instead of

```
<strong>hello</strong>
```

This rule is easier to remember than standard Markdown's rule, which allows only the following characters to be backslash-escaped:

```
\`* {}[]()>#+-.!
```

(However, if the markdown strict format is used, the standard Markdown rule will be used.)

A backslash-escaped space is parsed as a nonbreaking space. It will appear in TeX output as ~ and in HTML and XML as or &mbsp;.

A backslash-escaped newline (i.e. a backslash occurring at the end of a line) is parsed as a hard line break. It will appear in TeX output as \\ and in HTML as
. This is a nice alternative to Markdown's "invisible" way of indicating hard line breaks using two trailing spaces on a line.

Backslash escapes do not work in verbatim contexts.

Smart punctuation

Extension

If the --smart option is specified, pandoc will produce typographically correct output, converting straight quotes to curly quotes, --- to em-dashes, -- to en-dashes, and ... to ellipses. Nonbreaking spaces are inserted after certain abbreviations, such as "Mr."

Note: if your LaTeX template or any included header file call for the csquotes package, pandoc will detect this automatically and use \enquote{...} for quoted text.

Inline formatting

Emphasis

To *emphasize* some text, surround it with ★s or ___, like this:

```
This text is emphasized with underscores, and this
is *emphasized with asterisks*.
```

Double * or produces **strong emphasis**:

```
This is **strong emphasis** and with underscores .
```

A * or character surrounded by spaces, or backslashescaped, will not trigger emphasis:

```
This is * not emphasized *, and \*neither is this\*.
```

Extension: intraword underscores

Because is sometimes used inside words and identifiers, pandoc does not interpret a surrounded by alphanumeric characters as an emphasis marker. If you want to emphasize just part of a word, use *:

```
feas*ible*, not feas*able*.
```

Strikeout

Extension: strikeout

To strikeout a section of text with a horizontal line, begin and end it with ~~. Thus, for example,

```
This ~~is deleted text.~~
```

Superscripts and subscripts

Extension: superscript, subscript

Superscripts may be written by surrounding the superscripted text by ^ characters; subscripts may be written by surrounding the subscripted text by ~ characters. Thus, for example,

```
H~2~0 is a liquid. 2^10^1 is 1024.
```

If the superscripted or subscripted text contains spaces, these spaces must be escaped with backslashes. (This is to prevent accidental superscripting and subscripting through the ordinary use of ~ and ^.) Thus, if you want the letter P with 'a cat' in subscripts, use P~a\ cat~, not P~a cat~.

Verbatim

To make a short span of text verbatim, put it inside backticks:

```
What is the difference between `>>=` and `>>`?
```

If the verbatim text includes a backtick, use double backticks:

```
Here is a literal backtick `` ``
```

(The spaces after the opening backticks and before the closing backticks will be ignored.)

The general rule is that a verbatim span starts with a string of consecutive backticks (optionally followed by a space) and ends with a string of the same number of backticks (optionally preceded by a space).

Note that backslash-escapes (and other Markdown constructs) do not work in verbatim contexts:

```
This is a backslash followed by an asterisk: `\*`.
```

```
Extension: inline code attributes
```

Attributes can be attached to verbatim text, just as with fenced code blocks:

```
`<$>`{.haskell}
```

Small caps

To write small caps, you can use an HTML span tag:

```
<span style="font-variant:small-caps;">Small caps</span>
```

(The semicolon is optional and there may be space after the colon.) This will work in all output formats that support small caps.

Math

```
Extension: tex math dollars
```

Anything between two \$\\$\$ characters will be treated as TeX math. The opening \$\\$\\$ must have a non-space character immediately to its right, while the closing \$\\$ must have a non-space character immediately to its left, and must not be followed immediately by a digit. Thus, \$20,000 and \$30,000 won't parse as math. If for some reason you need to enclose text in literal \$\\$\$ characters, backslash-escape them and they won't be treated as math delimiters.

TeX math will be printed in all output formats. How it is rendered depends on the output format:

Markdown, LaTeX, Emacs Org mode, ConTeXt, ZimWiki

It will appear verbatim between \$\\$\$ characters.

reStructuredText

It will be rendered using an interpreted text role :math:.

AsciiDoc

It will be rendered as latexmath: [...].

Texinfo

It will be rendered inside a @math command.

groff man

It will be rendered verbatim without \$'s.

MediaWiki, DokuWiki

It will be rendered inside <math> tags.

Textile

It will be rendered inside tags.

RTF, OpenDocument, ODT

It will be rendered, if possible, using unicode characters, and will otherwise appear verbatim.

DocBook

If the __mathml flag is used, it will be rendered using MathML in an inlineequation or informal equation tag. Otherwise it will be rendered, if possible, using unicode characters.

Docx

It will be rendered using OMML math markup.

FictionBook2

If the --webtex option is used, formulas are rendered as images using Google Charts or other compatible web service, downloaded and embedded in the e-book. Otherwise, they will appear verbatim.

HTML, Slidy, DZSlides, S5, EPUB

The way math is rendered in HTML will depend on the command-line options selected:

- 1. The default is to render TeX math as far as possible using unicode characters, as with RTF, DocBook, and OpenDocument output. Formulas are put inside a span with class="math", so that they may be styled differently from the surrounding text if needed.
- 2. If the --latexmathml option is used, TeX math will be displayed between \$ or \$\$ characters and put in tags with class LaTeX. The LaTeXMathML script will be used to render it as

- formulas. (This trick does not work in all browsers, but it works in Firefox. In browsers that do not support LaTeXMathML, TeX math will appear verbatim between \$ characters.)
- 3. If the --jsmath option is used, TeX math will be put inside tags (for inline math) or <div> tags (for display math) with class math. The jsMath script will be used to render it.
- 4. If the ——mimetex option is used, the mimeTeX CGI script will be called to generate images for each TeX formula. This should work in all browsers. The --mimetex option takes an optional URL as argument. If no URL is specified, it will be assumed that the mimeTeX CGI script is at /cgibin/mimetex.cgi.
- 5. If the --gladtex option is used, TeX formulas will be enclosed in <eq> tags in the HTML output. The resulting htex file may then be processed by gladTeX, which will produce image files for each

formula and an HTML file with links to these images. So, the procedure is:

```
pandoc -s --gladtex myfile.txt -o myfile.htex
gladtex -d myfile-images myfile.htex
# produces myfile.html and images in myfile-images
```

6. If the --webtex option is used, TeX formulas will be converted to tags that link to an external script that converts formulas to images. The formula will be URL-encoded and concatenated with the URL provided. If no URL is specified, the Google Chart API will be used

```
(http://chart.apis.google.com/chart?
cht=tx&chl=).
```

7. If the --mathjax option is used, TeX math will be displayed between \ (...\) (for inline math) or \[...\] (for display math) and put in tags with class math. The MathJax script will be used to render it as formulas.

Raw HTML

Extension: raw html

Markdown allows you to insert raw HTML (or DocBook) anywhere in a document (except verbatim contexts, where <, >, and are interpreted literally). (Technically this is not an extension, since standard Markdown allows it, but it has been made an extension so that it can be disabled if desired.)

The raw HTML is passed through unchanged in HTML, S₅, Slidy, Slideous, DZSlides, EPUB, Markdown, Emacs Org mode, and Textile output, and suppressed in other formats.

Extension: markdown in html blocks

Standard Markdown allows you to include HTML "blocks": blocks of HTML between balanced tags that are separated from the surrounding text with blank lines, and start and end at the left margin. Within these blocks, everything is interpreted as HTML, not Markdown; so (for example), * does not signify emphasis.

Pandoc behaves this way when the markdown strict format is used; but by default, pandoc interprets material between HTML block tags as Markdown. Thus, for example,

pandoc will turn

```
*one*
[a link] (http://google.com)
```

into

```
<em>one</em>
<a href="http://google.com">a link</a>
```

whereas Markdown.pl will preserve it as is.

There is one exception to this rule: text between <script> and <style> tags is not interpreted as Markdown.

This departure from standard Markdown should make it easier to mix Markdown with HTML block elements. For example, one can surround a block of Markdown text with <div> tags without preventing it from being interpreted as Markdown.

Extension: native divs

Use native pandoc Div blocks for content inside <div> tags. For the most part this should give the same output as markdown in html blocks, but it makes it easier to write pandoc filters to manipulate groups of blocks.

Extension: native spans

Use native pandoc Span blocks for content inside tags. For the most part this should give the same output as raw html, but it makes it easier to write pandoc filters to manipulate groups of inlines.

Raw TeX

Extension: raw tex

In addition to raw HTML, pandoc allows raw LaTeX, TeX, and ConTeXt to be included in a document. Inline TeX commands will be preserved and passed unchanged to the LaTeX and ConTeXt writers. Thus, for example, you can use LaTeX to include BibTeX citations:

```
This result was proved in \cite{jones.1967}.
```

Note that in LaTeX environments, like

```
\begin{tabular}{|l|l|}\hline
Age & Frequency \\ \hline
18--25 & 15 \\
26--35 & 33 \\
36--45 & 22 \\ \hline
\end{tabular}
```

the material between the begin and end tags will be interpreted as raw LaTeX, not as Markdown.

Inline LaTeX is ignored in output formats other than Markdown, LaTeX, Emacs Org mode, and ConTeXt.

LaTeX macros

```
Extension: latex macros
```

For output formats other than LaTeX, pandoc will parse LaTeX \newcommand and \renewcommand definitions and apply the resulting macros to all LaTeX math. So, for example, the following will work in all output formats, not just LaTeX:

```
\newcommand{\tuple}[1]{\langle #1 \rangle}
\star \
```

In LaTeX output, the \newcommand definition will simply be passed unchanged to the output.

Links

Markdown allows links to be specified in several ways.

Automatic links

If you enclose a URL or email address in pointy brackets, it will become a link:

```
<http://google.com>
<sam@green.eggs.ham>
```

Inline links

An inline link consists of the link text in square brackets, followed by the URL in parentheses. (Optionally, the URL can be followed by a link title, in quotes.)

```
This is an [inline link] (/url), and here's [one with
a title] (http://fsf.org "click here for a good time!").
```

There can be no space between the bracketed part and the parenthesized part. The link text can contain formatting (such as emphasis), but the title cannot.

Email addresses in inline links are not autodetected, so they have to be prefixed with mailto:

```
[Write me!] (mailto:sam@green.eggs.ham)
```

Reference links

An *explicit* reference link has two parts, the link itself and the link definition, which may occur elsewhere in the document (either before or after the link).

The link consists of link text in square brackets, followed by a label in square brackets. (There can be space between the two.) The link definition consists of the bracketed label, followed by a colon and a space, followed by the URL, and optionally (after a space) a link title either in quotes or in parentheses. The label must not be parseable as a citation (assuming the citations extension is enabled): citations take precedence over link labels.

Here are some examples:

```
[my label 1]: /foo/bar.html "My title, optional"
[my label 2]: /foo
[my label 3]: http://fsf.org (The free software foundation)
[my label 4]: /bar#special 'A title in single quotes'
```

The URL may optionally be surrounded by angle brackets:

```
[my label 5]: <http://foo.bar.baz>
```

The title may go on the next line:

```
[my label 3]: http://fsf.org
 "The free software foundation"
```

Note that link labels are not case sensitive. So, this will work:

```
Here is [my link] [FOO]
[Foo]: /bar/baz
```

In an *implicit* reference link, the second pair of brackets is empty:

```
See [my website][].
```

```
[my website]: http://foo.bar.baz
```

Note: In Markdown.pl and most other Markdown implementations, reference link definitions cannot occur in nested constructions such as list items or block quotes. Pandoc lifts this arbitrary seeming restriction. So the following is fine in pandoc, though not in most other implementations:

```
> My block [quote].
> [quote]: /foo
```

Extension: shortcut reference links

In a *shortcut* reference link, the second pair of brackets may be omitted entirely:

```
See [my website].
[my website]: http://foo.bar.baz
```

Internal links

To link to another section of the same document, use the

automatically generated identifier (see Header identifiers). For example:

```
See the [Introduction] (#introduction).
```

or

```
See the [Introduction].
[Introduction]: #introduction
```

Internal links are currently supported for HTML formats (including HTML slide shows and EPUB), LaTeX, and ConTeXt.

Images

A link immediately preceded by a !! will be treated as an image. The link text will be used as the image's alt text:

```
![la lune](lalune.jpg "Voyage to the moon")
![movie reel]
[movie reel]: movie.gif
```

```
Extension: implicit figures
```

An image occurring by itself in a paragraph will be rendered as a figure with a caption.⁵ (In LaTeX, a figure environment will be used; in HTML, the image will be placed in a div with class figure, together with a caption in a p with class caption.) The image's alt text will be used as the caption.

```
![This is the caption] (/url/of/image.png)
```

If you just want a regular inline image, just make sure it is not the only thing in the paragraph. One way to do this is to insert a nonbreaking space after the image:

```
![This image won't be a figure](/url/of/image.png) \
```

Extension: link attributes

Attributes can be set on links and images:

```
An inline ![image](foo.jpg){#id .class width=30 height=20px}
and a reference ![image][ref] with attributes.
[ref]: foo.jpg "optional title" {#id .class key=val key2="val
2"}
```

(This syntax is compatible with PHP Markdown Extra when only #id and .class are used.)

For HTML and EPUB, all attributes except width and height (but including srcset and sizes) are passed through as is. The other writers ignore attributes that are not supported by their output format.

The width and height attributes on images are treated specially. When used without a unit, the unit is assumed to be pixels. However, any of the following unit identifiers can be used: px, cm, mm, in, inch and %. There must not be any spaces between the number and the unit. For example:

```
![](file.jpg){ width=50% }
```

- Dimensions are converted to inches for output in pagebased formats like LaTeX. Dimensions are converted to pixels for output in HTML-like formats. Use the --dpi option to specify the number of pixels per inch. The default is 96dpi.
- The % unit is generally relative to some available space. For example the above example will render to

```
<img href="file.jpg" style="width: 50%;" />
(HTML),
\includegraphics[width=0.5\textwidth]{file.jpg}
(LaTeX), or
\externalfigure[file.jpg][width=0.5\textwidth]
(ConTeXt).
```

- Some output formats have a notion of a class (ConTeXt) or a unique identifier (LaTeX \caption), or both (HTML).
- When no width or height attributes are specified, the fallback is to look at the image resolution and the dpi metadata embedded in the image file.

Footnotes

Extension: footnotes

Pandoc's Markdown allows footnotes, using the following syntax:

```
Here is a footnote reference, [^1] and another. [^longnote]
[^1]: Here is the footnote.
[^longnote]: Here's one with multiple blocks.
```

Subsequent paragraphs are indented to show that they belong to the previous footnote. { some.code } The whole paragraph can be indented, or just the first line. In this way, multi-paragraph footnotes work like multi-paragraph list items. This paragraph won't be part of the note, because it isn't indented.

The identifiers in footnote references may not contain spaces, tabs, or newlines. These identifiers are used only to correlate the footnote reference with the note itself; in the output, footnotes will be numbered sequentially.

The footnotes themselves need not be placed at the end of the document. They may appear anywhere except inside other block elements (lists, block quotes, tables, etc.).

Extension: inline notes

Inline footnotes are also allowed (though, unlike regular notes, they cannot contain multiple paragraphs). The syntax is as follows:

```
Here is an inline note.^[Inlines notes are easier to write, s
ince
you don't have to pick an identifier and move down to type th
note.]
```

Inline and regular footnotes may be mixed freely.

Citations

```
Extension: citations
```

Using an external filter, pandoc-citeproc, pandoc can automatically generate citations and a bibliography in a number of styles. Basic usage is

```
pandoc --filter pandoc-citeproc myinput.txt
```

In order to use this feature, you will need to specify a bibliography file using the bibliography metadata field in a YAML metadata section, or --bibliography command line argument. You can supply multiple --bibliography arguments or set bibliography metadata field to YAML array, if you want to use multiple bibliography files. The bibliography may have any of these formats:

Format	File extension
BibLaTeX	.bib
BibTeX	.bibtex
Copac	.copac
CSL JSON	.json
CSL YAML	.yaml
EndNote	.enl
EndNote XML	.xml
ISI	.wos
MEDLINE	.medline
MODS	.mods
RIS	.ris

Note that .bib can be used with both BibTeX and BibLaTeX files; use .bibtex to force BibTeX.

Note that pandoc-citeproc --bib2json and pandocciteproc --bib2yaml can produce .json and .yaml files from any of the supported formats.

In-field markup: In BibTeX and BibLaTeX databases, pandoc-citeproc parses a subset of LaTeX markup; in CSL YAML databases, pandoc Markdown; and in CSL JSON

```
databases, an HTML-like markup:
```

```
<i>...</i>
    italics
<b>...</b>
    bold
<span style="font-variant:small-caps;">...</span>
or <sc>...</sc>
    small capitals
<sub>...</sub>
    subscript
<sup>...</sup>
    superscript
<span class="nocase">...</span>
    prevent a phrase from being capitalized as title case
pandoc-citeproc -j and -y interconvert the CSL JSON
and CSL YAML formats as far as possible.
As an alternative to specifying a bibliography file using —
```

bibliography or the YAML metadata field bibliography, you can include the citation data directly in the

references field of the document's YAML metadata. The field should contain an array of YAML-encoded references, for example:

```
references:
- type: article-journal
 id: WatsonCrick1953
  author:
 - family: Watson
   given: J. D.
 - family: Crick
   given: F. H. C.
 issued:
   date-parts:
   - - 1953
      - 4
      - 25
 title: 'Molecular structure of nucleic acids: a structure f
or deoxyribose
   nucleic acid'
 title-short: Molecular structure of nucleic acids
 container-title: Nature
 volume: 171
 issue: 4356
 page: 737-738
 DOI: 10.1038/171737a0
 URL: http://www.nature.com/nature/journal/v171/n4356/abs/17
1737a0.html
 language: en-GB
```

(pandoc-citeproc --bib2yaml can produce these from a bibliography file in one of the supported formats.)

Citations and references can be formatted using any style supported by the Citation Style Language, listed in the Zotero Style Repository. These files are specified using the -csl option or the csl metadata field. By default, pandocciteproc will use the Chicago Manual of Style author-date format. The CSL project provides further information on finding and editing styles.

To make your citations hyperlinks to the corresponding bibliography entries, add link-citations: true to your YAML metadata.

Citations go inside square brackets and are separated by semicolons. Each citation must have a key, composed of '@' + the citation identifier from the database, and may optionally have a prefix, a locator, and a suffix. The citation key must begin with a letter, digit, or ___, and may contain alphanumerics, , and internal punctuation characters

(:. #\$%&-+?<>~/). Here are some examples:

```
Blah blah [see @doe99, pp. 33-35; also @smith04, chap. 1].
Blah blah [@doe99, pp. 33-35, 38-39 and *passim*].
Blah blah [@smith04; @doe99].
```

pandoc-citeproc detects locator terms in the CSL locale files. Either abbreviated or unabbreviated forms are accepted. In the en-us locale, locator terms can be written in either singular or plural forms, as book, bk. / bks.; chapter, chap. / chaps.; column, col. / cols.; figure, fig. / figs.; folio, fol. / fols.; number, no./nos.; line, l./ll.; note, n./nn.; opus, op./opp.; page, p./pp.; paragraph, para./paras.; part, pt./pts.; section, sec./secs.; sub verbo, s.v./s.vv.; verse, v./vv.; volume, vol./vols.; ¶/¶¶; §/§§. If no locator term is used, "page" is assumed.

A minus sign (-) before the @ will suppress mention of the author in the citation. This can be useful when the author is already mentioned in the text:

```
Smith says blah [-@smith04].
```

You can also write an in-text citation, as follows:

```
@smith04 says blah.
@smith04 [p. 33] says blah.
```

If the style calls for a list of works cited, it will be placed at the end of the document. Normally, you will want to end your document with an appropriate header:

```
last paragraph...
# References
```

The bibliography will be inserted after this header. Note that the unnumbered class will be added to this header, so that the section will not be numbered.

If you want to include items in the bibliography without actually citing them in the body text, you can define a dummy nocite metadata field and put the citations there:

```
nocite:
  @item1, @item2
@item3
```

In this example, the document will contain a citation for item3 only, but the bibliography will contain entries for item1, item2, and item3.

For LaTeX or PDF output, you can also use natbib or biblatex to render bibliography. In order to do so, specify bibliography files as outlined above, and add --natbib or --biblatex argument to pandoc invocation. Bear in mind that bibliography files have to be in respective format (either BibTeX or BibLaTeX).

For more information, see the pandoc-citeproc man page.

Non-pandoc extensions

The following Markdown syntax extensions are not enabled by default in pandoc, but may be enabled by adding +EXTENSION to the format name, where EXTENSION is the

name of the extension. Thus, for example, markdown+hard line breaks is Markdown with hard line breaks.

Extension: lists without preceding blankline

Allow a list to occur right after a paragraph, with no intervening blank space.

Extension: hard line breaks

Causes all newlines within a paragraph to be interpreted as hard line breaks instead of spaces.

Extension: ignore line breaks

Causes newlines within a paragraph to be ignored, rather than being treated as spaces or as hard line breaks. This option is intended for use with East Asian languages where spaces are not used between words, but text is divided into lines for readability.

Extension: east_asian_line_breaks

Causes newlines within a paragraph to be ignored, rather than being treated as spaces or as hard line breaks, when they occur between two East Asian wide characters. This is a better choice than ignore line breaks for texts that include a mix of East Asian wide characters and other characters.

Extension: emoji

Parses textual emojis like : smile: as Unicode emoticons.

Extension: tex_math_single_backslash

Causes anything between \((and \)\) to be interpreted as inline TeX math, and anything between \[and \] to be interpreted as display TeX math. Note: a drawback of this extension is that it precludes escaping (and [.

Extension: tex math double_backslash ___

Causes anything between \\(()\) to be interpreted as inline TeX math, and anything between \\[and \\] to be interpreted as display TeX math.

Extension: markdown_attribute_

By default, pandoc interprets material inside block-level tags as Markdown. This extension changes the behavior so that Markdown is only parsed inside block-level tags if the tags have the attribute markdown=1.

```
Extension: mmd title block
```

Enables a MultiMarkdown style title block at the top of the document, for example:

```
Title: My title
Author: John Doe
Date: September 1, 2008
Comment: This is a sample mmd title block, with
        a field spanning multiple lines.
```

See the MultiMarkdown documentation for details. If pandoc title block or yaml metadata block is enabled, it will take precedence over mmd title block.

```
Extension: abbreviations
```

Parses PHP Markdown Extra abbreviation keys, like

```
*[HTML]: Hypertext Markup Language
```

Note that the pandoc document model does not support abbreviations, so if this extension is enabled, abbreviation keys are simply skipped (as opposed to being parsed as paragraphs).

```
Extension: autolink bare uris
```

Makes all absolute URIs into links, even when not surrounded by pointy braces <...>.

```
Extension: ascii identifiers
```

Causes the identifiers produced by auto identifiers to be pure ASCII. Accents are stripped off of accented latin letters, and non-latin letters are omitted.

```
Extension: mmd link attributes
```

Parses multimarkdown style key-value attributes on link and image references. This extension should not be confused with the link attributes extension.

```
This is a reference ![image][ref] with multimarkdown attribut
es.
[ref]: http://path.to/image "Image title" width=20px height=3
0px
       id=myId class="myClass1 myClass2"
```

```
Extension: mmd header identifiers
```

Parses multimarkdown style header identifiers (in square brackets, after the header but before any trailing # s in an ATX header).

```
Extension: compact definition_lists
```

Activates the definition list syntax of pandoc 1.12.x and earlier. This syntax differs from the one described above under Definition lists in several respects:

- No blank line is required between consecutive items of the definition list.
- To get a "tight" or "compact" list, omit space between consecutive items; the space between a term and its definition does not affect anything.
- Lazy wrapping of paragraphs is not allowed: the entire definition must be indented four spaces.⁶

Markdown variants

In addition to pandoc's extended Markdown, the following Markdown variants are supported:

markdown phpextra (PHP Markdown Extra)

```
footnotes, pipe_tables, raw_html,
markdown attribute, fenced code blocks,
definition lists, intraword underscores,
header attributes, link attributes,
```

```
abbreviations, shortcut reference links.
markdown github (GitHub-Flavored Markdown)
   pipe tables, raw html, fenced code blocks,
   auto identifiers, ascii identifiers,
   backtick code blocks, autolink bare uris,
   intraword underscores, strikeout,
   hard line breaks, emoji,
   shortcut reference links.
markdown mmd (MultiMarkdown)
   pipe tables, raw html, markdown attribute,
   mmd link attributes, raw tex,
   tex math double backslash,
   intraword underscores, mmd title block,
   footnotes, definition lists,
   all symbols escapable,
   implicit header references, auto identifiers,
   mmd header identifiers,
   shortcut reference links.
markdown strict (Markdown.pl)
   raw html
```

Extensions with formats other than Markdown

Some of the extensions discussed above can be used with formats other than Markdown:

- auto identifiers can be used with latex, rst, mediawiki, and textile input (and is used by default).
- tex math dollars, tex math single backslash, and tex math double backslash can be used with html input. (This is handy for reading web pages formatted using MathJax, for example.)

Producing slide shows with pandoc

You can use pandoc to produce an HTML + javascript slide presentation that can be viewed via a web browser. There are five ways to do this, using S5, DZSlides, Slidy, Slideous, or reveal.js. You can also produce a PDF slide show using LaTeX beamer.

Here's the Markdown source for a simple slide show,

```
% Habits
% John Doe
% March 22, 2005
# In the morning
## Getting up
- Turn off alarm
- Get out of bed
## Breakfast
- Eat eggs
- Drink coffee
# In the evening
## Dinner
- Eat spaghetti
- Drink wine
![picture of spaghetti](images/spaghetti.jpg)
## Going to sleep
- Get in bed
```

```
- Count sheep
```

To produce an HTML/javascript slide show, simply type

```
pandoc -t FORMAT -s habits.txt -o habits.html
```

where FORMAT is either s5, slidy, slideous, dzslides, or revealjs.

For Slidy, Slideous, reveal.js, and S₅, the file produced by pandoc with the -s/--standalone option embeds a link to javascripts and CSS files, which are assumed to be available at the relative path s5/default (for S5), slideous (for Slideous), reveal.js (for reveal.js), or at the Slidy website at w3.org (for Slidy). (These paths can be changed by setting the slidy-url, slideous-url, revealjs-url, or s5-url variables; see Variables for slides, above.) For DZSlides, the (relatively short) javascript and css are included in the file by default.

With all HTML slide formats, the --self-contained option can be used to produce a single file that contains all of the data necessary to display the slide show, including

linked scripts, stylesheets, images, and videos.

To produce a PDF slide show using beamer, type

```
pandoc -t beamer habits.txt -o habits.pdf
```

Note that a reveal.js slide show can also be converted to a PDF by printing it to a file from the browser.

Structuring the slide show

By default, the *slide level* is the highest header level in the hierarchy that is followed immediately by content, and not another header, somewhere in the document. In the example above, level 1 headers are always followed by level 2 headers, which are followed by content, so 2 is the slide level. This default can be overridden using the --slidelevel option.

The document is carved up into slides according to the following rules:

- A horizontal rule always starts a new slide.
- A header at the slide level always starts a new slide.

- Headers below the slide level in the hierarchy create headers within a slide.
- Headers above the slide level in the hierarchy create "title slides," which just contain the section title and help to break the slide show into sections.
- A title page is constructed automatically from the document's title block, if present. (In the case of beamer, this can be disabled by commenting out some lines in the default template.)

These rules are designed to support many different styles of slide show. If you don't care about structuring your slides into sections and subsections, you can just use level 1 headers for all each slide. (In that case, level 1 will be the slide level.) But you can also structure the slide show into sections, as in the example above.

Note: in reveal.js slide shows, if slide level is 2, a twodimensional layout will be produced, with level 1 headers building horizontally and level 2 headers building vertically. It is not recommended that you use deeper nesting of section levels with reveal.js.

Incremental lists

By default, these writers produce lists that display "all at once." If you want your lists to display incrementally (one item at a time), use the -i option. If you want a particular list to depart from the default (that is, to display incrementally without the -i option and all at once with the -i option), put it in a block quote:

```
> - Eat spaghetti
> - Drink wine
```

In this way incremental and nonincremental lists can be mixed in a single document.

Inserting pauses

You can add "pauses" within a slide by including a paragraph containing three dots, separated by spaces:

```
# Slide with a pause
content before the pause
```

content after the pause

Styling the slides

You can change the style of HTML slides by putting customized CSS files in \$DATADIR/s5/default (for S5), \$DATADIR/slidy (for Slidy), or \$DATADIR/slideous (for Slideous), where **\$DATADIR** is the user data directory (see --data-dir, above). The originals may be found in pandoc's system data directory (generally \$CABALDIR/pandoc-VERSION/s5/default). Pandoc will look there for any files it does not find in the user data directory.

For dzslides, the CSS is included in the HTML file itself, and may be modified there.

All reveal.js configuration options can be set through variables. For example, themes can be used by setting the theme variable:

```
-V theme=moon
```

Or you can specify a custom stylesheet using the --css

option.

To style beamer slides, you can specify a theme, colortheme, fonttheme, innertheme, and outertheme, using the _v option:

```
pandoc -t beamer habits.txt -V theme: Warsaw -o habits.pdf
```

Note that header attributes will turn into slide attributes (on a <div> or <section>) in HTML slide formats, allowing you to style individual slides. In beamer, the only header attribute that affects slides is the allowframebreaks class, which sets the allowframebreaks option, causing multiple slides to be created if the content overfills the frame. This is recommended especially for bibliographies:

```
# References {.allowframebreaks}
```

Speaker notes

reveal.js has good support for speaker notes. You can add notes to your Markdown document thus:

```
<div class="notes">
This is my note.
- It can contain Markdown
- like this list
</div>
```

To show the notes window, press s while viewing the presentation. Notes are not yet supported for other slide formats, but the notes will not appear on the slides themselves.

Frame attributes in beamer

Sometimes it is necessary to add the LaTeX [fragile] option to a frame in beamer (for example, when using the minted environment). This can be forced by adding the fragile class to the header introducing the slide:

```
# Fragile slide {.fragile}
```

All of the other frame attributes described in Section 8.1 of the Beamer User's Guide may also be used:

```
allowdisplaybreaks, allowframebreaks, b, c, t,
```

```
environment, label, plain, shrink.
```

Creating EPUBs with pandoc

EPUB Metadata

EPUB metadata may be specified using the --epubmetadata option, but if the source document is Markdown, it is better to use a YAML metadata block. Here is an example:

```
title:
- type: main
  text: My Book
- type: subtitle
  text: An investigation of metadata
creator:
- role: author
 text: John Smith
- role: editor
  text: Sarah Jones
identifier:
- scheme: DOI
 text: doi:10.234234.234/33
publisher: My Press
rights: © 2007 John Smith, CC BY-NC
```

The following fields are recognized:

identifier

Either a string value or an object with fields text and scheme. Valid values for scheme are ISBN-10, GTIN-13, UPC, ISMN-10, DOI, LCCN, GTIN-14, ISBN-13, Legal deposit number, URN, OCLC, ISMN-13, ISBN-A, JP, OLCC.

title

Either a string value, or an object with fields file-as and type, or a list of such objects. Valid values for type are main, subtitle, short, collection, edition, extended.

creator

Either a string value, or an object with fields role, file-as, and text, or a list of such objects. Valid values for role are MARC relators, but pandoc will attempt to translate the human-readable versions (like "author" and "editor") to the appropriate marc relators.

contributor

Same format as creator.

date

A string value in YYYY-MM-DD format. (Only the year is necessary.) Pandoc will attempt to convert other common date formats.

lang (or legacy: language)

A string value in BCP 47 format. Pandoc will default to the local language if nothing is specified.

subject

A string value or a list of such values.

description

A string value.

type

A string value.

format

A string value.

relation

A string value.

coverage

```
A string value.
rights
   A string value.
cover-image
   A string value (path to cover image).
stylesheet
   A string value (path to CSS stylesheet).
page-progression-direction
   Either ltr or rtl. Specifies the page-progression-
```

Linked media

By default, pandoc will download linked media (including audio and video) and include it in the EPUB container, yielding a completely self-contained EPUB. If you want to link to external media resources instead, use raw HTML in your source and add data-external="1" to the tag with the **src** attribute. For example:

direction attribute for the spine element.

```
<audio controls="1">
  <source src="http://example.com/music/toccata.mp3"</pre>
          data-external="1" type="audio/mpeg">
```

```
</source>
</audio>
```

Literate Haskell support

If you append +lhs (or +literate haskell) to an appropriate input or output format (markdown, markdown strict, rst, or latex for input or output; beamer, html or html5 for output only), pandoc will treat the document as literate Haskell source. This means that

- In Markdown input, "bird track" sections will be parsed as Haskell code rather than block quotations. Text between \begin{code} and \end{code} will also be treated as Haskell code. For ATX-style headers the character '=' will be used instead of '#'.
- In Markdown output, code blocks with classes haskell and literate will be rendered using bird tracks, and block quotations will be indented one space, so they will not be treated as Haskell code. In addition, headers will be rendered setext-style (with underlines) rather than ATX-style (with '#' characters).

(This is because ghc treats '#' characters in column 1 as introducing line numbers.)

- In restructured text input, "bird track" sections will be parsed as Haskell code.
- In restructured text output, code blocks with class haskell will be rendered using bird tracks.
- In LaTeX input, text in code environments will be parsed as Haskell code.
- In LaTeX output, code blocks with class haskell will be rendered inside code environments.
- In HTML output, code blocks with class haskell will be rendered with class literatehaskell and bird tracks.

Examples:

```
pandoc -f markdown+lhs -t html
```

reads literate Haskell source formatted with Markdown conventions and writes ordinary HTML (without bird tracks).

```
pandoc -f markdown+lhs -t html+lhs
```

writes HTML with the Haskell code in bird tracks, so it can be copied and pasted as literate Haskell source.

Syntax highlighting

Pandoc will automatically highlight syntax in fenced code blocks that are marked with a language name. The Haskell library highlighting-kate is used for highlighting, which works in HTML, Docx, and LaTeX/PDF output. The color scheme can be selected using the --highlight-style option. The default color scheme is pygments, which imitates the default color scheme used by the Python library pygments, but pygments is not actually used to do the highlighting.

To see a list of language names that pandoc will recognize, type pandoc --version.

To disable highlighting, use the --no-highlight option.

Custom writers

Pandoc can be extended with custom writers written in lua. (Pandoc includes a lua interpreter, so lua need not be installed separately.)

To use a custom writer, simply specify the path to the lua script in place of the output format. For example:

```
pandoc -t data/sample.lua
```

Creating a custom writer requires writing a lua function for each possible element in a pandoc document. To get a documented example which you can modify according to your needs, do

```
pandoc --print-default-data-file sample.lua
```

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1. To make subtitle work with other LaTeX document classes, you can add the following to header-

includes:

```
\providecommand{\subtitle}[1]{%
 \usepackage{titling}
 \posttitle{%
    \par\large#1\end{center}}
```

2. The point of this rule is to ensure that normal paragraphs starting with people's initials, like

```
B. Russell was an English philosopher.
```

do not get treated as list items.

This rule will not prevent

```
(C) 2007 Joe Smith
```

from being interpreted as a list item. In this case, a backslash escape can be used:

```
(C\setminus) 2007 Joe Smith
```

- 3. I have been influenced by the suggestions of David Wheeler.
- 4. This scheme is due to Michel Fortin, who proposed it on the Markdown discussion list.
- 5. This feature is not yet implemented for RTF, OpenDocument, or ODT. In those formats, you'll just get an image in a paragraph by itself, with no caption.
- 6. To see why laziness is incompatible with relaxing the requirement of a blank line between items, consider the following example:

```
bar
     definition
foo
     definition
```

Is this a single list item with two definitions of "bar," the first of which is lazily wrapped, or two list items? To remove the ambiguity we must either disallow lazy wrapping or require a blank line between list items.