Formatting Syntax

DokuWiki supports some simple markup language, which tries to make the datafiles to be as readable as possible. This page contains all possible syntax you may use when editing the pages. Simply have a look at the source of this page by pressing “Edit this page”. If you want to try something, just use the playground page. The simpler markup is easily accessible via quickbuttons, too.

Basic Text Formatting

DokuWiki supports **bold**, *italic*, underlined and monospaced texts. Of course you can ***combine*** all these.

```
DokuWiki supports **bold**, //italic//, __underlined__ and ''monospaced''
texts.
Of course you can **__//''combine''//__** all these.
```

You can use subscript and superscript, too.

```
You can use <sub>subscript</sub> and <sup>superscript</sup>, too.
```

You can mark something as ~~deleted~~ as well.

```
You can mark something as <del>deleted</del> as well.
```

Paragraphs are created from blank lines. If you want to **force a newline** without a paragraph, you can use two backslashes followed by a whitespace or the end of line.

This is some text with some linebreaks
Note that the two backslashes are only recognized at the end of a line
or followed by
a whitespace \\this happens without it.

```
This is some text with some linebreaks\\ Note that the
two backslashes are only recognized at the end of a line\\
or followed by\\ a whitespace \\this happens without it.
```

You should use forced newlines only if really needed.

Links

DokuWiki supports multiple ways of creating links.

External

External links are recognized automagically: http://www.google.com or simply www.google.com - You can set the link text as well: This Link points to google. Email addresses like this one: andi@splitbrain.org are recognized, too.

```
DokuWiki supports multiple ways of creating links. External links are
recognized
automagically: http://www.google.com or simply www.google.com - You can set
link text as well: [[http://www.google.com|This Link points to google]].
Email
addresses like this one: <andi@splitbrain.org> are recognized, too.
```

Internal

Internal links are created by using square brackets. You can either just give a pagename or use an additional link text.

```
Internal links are created by using square brackets. You can either just
give
a [[pagename]] or use an additional [[pagename|link text]].
```

Wiki pagenames are converted to lowercase automatically, special characters are not allowed.

You can use namespaces by using a colon in the pagename.

```
You can use [[some:namespaces]] by using a colon in the pagename.
```

For details about namespaces see namespaces.

Linking to a specific section is possible, too. Just add the section name behind a hash character as known from HTML. This links to this Section.

```
This links to [[syntax#internal|this Section]].
```

Notes:

- Links to existing pages are shown in a different style from nonexisting ones.
- DokuWiki does not use CamelCase to automatically create links by default, but this behavior can be enabled in the config file. Hint: If DokuWiki is a link, then it's enabled.
- When a section's heading is changed, its bookmark changes, too. So don't rely on section linking too much.

Interwiki

DokuWiki supports Interwiki links. These are quick links to other Wikis. For example this is a link to Wikipedia's page about Wikis: Wiki.

```
DokuWiki supports [[doku>Interwiki]] links. These are quick links to other
Wikis.
For example this is a link to Wikipedia's page about Wikis: [[wp>Wiki]].
```

Windows Shares

Windows shares like this are recognized, too. Please note that these only make sense in a homogeneous user group like a corporate Intranet.

```
Windows Shares like [[\\server\share|this]] are recognized, too.
```

Notes:

- For security reasons direct browsing of windows shares only works in Microsoft Internet Explorer per default (and only in the “local zone”).
- For Mozilla and Firefox it can be enabled through different workaround mentioned in the Mozilla Knowledge Base. However, there will still be a JavaScript warning about trying to open a Windows Share. To remove this warning (for all users), put the following line in `conf/lang/en/lang.php` (more details at localization):

  conf/lang/en/lang.php

  ```
  <?php
  /**
   * Customization of the english language file
   * Copy only the strings that needs to be modified
   */
  $lang['js']['nosmblinks'] = '';
  ```

Image Links

You can also use an image to link to another internal or external page by combining the syntax for links and images (see below) like this:

```
[[http://php.net|{{wiki:dokuwiki-128.png}}]]
```



Please note: The image formatting is the only formatting syntax accepted in link names.

The whole image and link syntax is supported (including image resizing, internal and external images

and URLs and interwiki links).

Footnotes

You can add footnotes [1] by using double parentheses.

```
You can add footnotes ((This is a footnote)) by using double parentheses.
```

Sectioning

You can use up to five different levels of headlines to structure your content. If you have more than three headlines, a table of contents is generated automatically – this can be disabled by including the string ~~NOTOC~~ in the document.

Headline Level 3

Headline Level 4

Headline Level 5

```
==== Headline Level 3 ====
=== Headline Level 4 ===
== Headline Level 5 ==
```

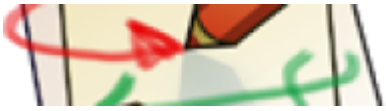
By using four or more dashes, you can make a horizontal line:

Media Files

You can include external and internal images, videos and audio files with curly brackets. Optionally you can specify the size of them.

Real size: 

Resize to given width: 

Resize to given width and height[2]: 

Resized external image:

```
Real size:                        {{wiki:dokuwiki-128.png}}
Resize to given width:            {{wiki:dokuwiki-128.png?50}}
Resize to given width and height: {{wiki:dokuwiki-128.png?200x50}}
Resized external image:           {{http://php.net/images/php.gif?200x50}}
```

By using left or right whitespaces you can choose the alignment.







```
{{ wiki:dokuwiki-128.png}}
{{wiki:dokuwiki-128.png }}
{{ wiki:dokuwiki-128.png }}
```

Of course, you can add a title (displayed as a tooltip by most browsers), too.



```
{{ wiki:dokuwiki-128.png |This is the caption}}
```

For linking an image to another page see Image Links above.

Supported Media Formats

DokuWiki can embed the following media formats directly.

Image	`gif`, `jpg`, `png`
Video	`webm`, `ogv`, `mp4`
Audio	`ogg`, `mp3`, `wav`
Flash	`swf`

If you specify a filename that is not a supported media format, then it will be displayed as a link instead.

By adding `?linkonly` you provide a link to the media without displaying it inline

```
{{wiki:dokuwiki-128.png?linkonly}}
```

dokuwiki-128.png This is just a link to the image.

Fallback Formats

Unfortunately not all browsers understand all video and audio formats. To mitigate the problem, you can upload your file in different formats for maximum browser compatibility.

For example consider this embedded mp4 video:

```
{{video.mp4|A funny video}}
```

When you upload a `video.webm` and `video.ogv` next to the referenced `video.mp4`, DokuWiki will automatically add them as alternatives so that one of the three files is understood by your browser.

Additionally DokuWiki supports a “poster” image which will be shown before the video has started. That image needs to have the same filename as the video and be either a jpg or png file. In the example above a `video.jpg` file would work.

Lists

Dokuwiki supports ordered and unordered lists. To create a list item, indent your text by two spaces and use a `*` for unordered lists or a `-` for ordered ones.

- This is a list
- The second item
  - You may have different levels
- Another item

1. The same list but ordered

2. Another item
    1. Just use indention for deeper levels
3. That's it

```
* This is a list
* The second item
  * You may have different levels
* Another item

- The same list but ordered
- Another item
  - Just use indention for deeper levels
- That's it
```

Also take a look at the FAQ on list items.

Text Conversions

DokuWiki can convert certain pre-defined characters or strings into images or other text or HTML.

The text to image conversion is mainly done for smileys. And the text to HTML conversion is used for typography replacements, but can be configured to use other HTML as well.

Text to Image Conversions

DokuWiki converts commonly used emoticons to their graphical equivalents. Those Smileys and other images can be configured and extended. Here is an overview of Smileys included in DokuWiki:

- 8-)
- 8-O
- :-(
- :-)
- =)
- :-/
- :-\
- :-?
- :-D
- :-P
- :-O
- :-X
- :-|
- ;-)
- ^_^
- :?:
- :!:
- LOL

- Fix Me! FIXME
- Delete! DELETEME

Text to HTML Conversions

Typography: DokuWiki can convert simple text characters to their typographically correct entities. Here is an example of recognized characters.

→ ← ↔ ⇒ ⇐ ⇔ » « – — 640×480 © ™ ® “He thought 'It's a man's world'...”

```
-> <- <-> => <= <=> >> << -- --- 640x480 (c) (tm) (r)
"He thought 'It's a man's world'..."
```

The same can be done to produce any kind of HTML, it just needs to be added to the pattern file.

There are three exceptions which do not come from that pattern file: multiplication entity (640×480), 'single' and “double quotes”. They can be turned off through a config option.

Quoting

Some times you want to mark some text to show it's a reply or comment. You can use the following syntax:

```
I think we should do it

> No we shouldn't

>> Well, I say we should

> Really?

>> Yes!

>>> Then lets do it!
```

I think we should do it

> No we shouldn't
>
> > Well, I say we should
>
> Really?
>
> > Yes!
> >
> > > Then lets do it!

Tables

DokuWiki supports a simple syntax to create tables.

Heading 1	Heading 2	Heading 3
Row 1 Col 1	Row 1 Col 2	Row 1 Col 3
Row 2 Col 1	some colspan (note the double pipe)	
Row 3 Col 1	Row 3 Col 2	Row 3 Col 3

Table rows have to start and end with a | for normal rows or a ^ for headers.

```
^ Heading 1      ^ Heading 2       ^ Heading 3          ^
| Row 1 Col 1    | Row 1 Col 2     | Row 1 Col 3        |
| Row 2 Col 1    | some colspan (note the double pipe) ||
| Row 3 Col 1    | Row 3 Col 2     | Row 3 Col 3        |
```

To connect cells horizontally, just make the next cell completely empty as shown above. Be sure to have always the same amount of cell separators!

Vertical tableheaders are possible, too.

	Heading 1	Heading 2
Heading 3	Row 1 Col 2	Row 1 Col 3
Heading 4	no colspan this time	
Heading 5	Row 2 Col 2	Row 2 Col 3

As you can see, it's the cell separator before a cell which decides about the formatting:

```
|              ^ Heading 1            ^ Heading 2          ^
^ Heading 3    | Row 1 Col 2          | Row 1 Col 3        |
^ Heading 4    | no colspan this time |                    |
^ Heading 5    | Row 2 Col 2          | Row 2 Col 3        |
```

You can have rowspans (vertically connected cells) by adding `:::` into the cells below the one to which they should connect.

Heading 1	Heading 2	Heading 3
Row 1 Col 1		Row 1 Col 3
Row 2 Col 1	this cell spans vertically	Row 2 Col 3
Row 3 Col 1		Row 2 Col 3

Apart from the rowspan syntax those cells should not contain anything else.

```
^ Heading 1      ^ Heading 2                  ^ Heading 3          ^
| Row 1 Col 1    | this cell spans vertically | Row 1 Col 3        |
| Row 2 Col 1    | :::                        | Row 2 Col 3        |
| Row 3 Col 1    | :::                        | Row 2 Col 3        |
```

You can align the table contents, too. Just add at least two whitespaces at the opposite end of your

text: Add two spaces on the left to align right, two spaces on the right to align left and two spaces at least at both ends for centered text.

Table with alignment		
right	center	left
left	right	center
xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx

This is how it looks in the source:

```
^           Table with alignment           ^^^
|         right|    center    |left          |
|left          |         right|    center    |
| xxxxxxxxxxxx | xxxxxxxxxxxx | xxxxxxxxxxxx |
```

Note: Vertical alignment is not supported.

No Formatting

If you need to display text exactly like it is typed (without any formatting), enclose the area either with <nowiki> tags or even simpler, with double percent signs %%.

This is some text which contains addresses like this: http://www.splitbrain.org and **formatting**, but nothing is done with it. The same is true for //__this__ text// with a smiley ;-).

```
<nowiki>
This is some text which contains addresses like this:
http://www.splitbrain.org and **formatting**, but nothing is done with it.
</nowiki>
The same is true for %%//__this__ text// with a smiley ;-)%%.
```

Code Blocks

You can include code blocks into your documents by either indenting them by at least two spaces (like used for the previous examples) or by using the tags <code> or <file>.

```
This is text is indented by two spaces.
```

```
This is preformatted code all spaces are preserved: like              <-this
```

```
This is pretty much the same, but you could use it to show that you quoted a
file.
```

Those blocks were created by this source:

```
  This is text is indented by two spaces.
```

```
<code>
This is preformatted code all spaces are preserved: like              <-this
</code>
```

```
<file>
This is pretty much the same, but you could use it to show that you quoted a
file.
</file>
```

Syntax Highlighting

DokuWiki can highlight sourcecode, which makes it easier to read. It uses the GeSHi Generic Syntax Highlighter – so any language supported by GeSHi is supported. The syntax uses the same code and file blocks described in the previous section, but this time the name of the language syntax to be highlighted is included inside the tag, e.g. <code java> or <file java>.

```java
/**
 * The HelloWorldApp class implements an application that
 * simply displays "Hello World!" to the standard output.
 */
class HelloWorldApp {
    public static void main(String[] args) {
        System.out.println("Hello World!"); //Display the string.
    }
}
```

The following language strings are currently recognized: *4cs 6502acme 6502kickass 6502tasm 68000devpac abap actionscript3 actionscript ada aimms algol68 apache applescript apt_sources arm asm asp asymptote autoconf autohotkey autoit avisynth awk bascomavr bash basic4gl batch bf biblatex bibtex blitzbasic bnf boo caddcl cadlisp ceylon cfdg cfm chaiscript chapel cil c_loadrunner clojure c_mac cmake cobol coffeescript c cpp cpp-qt cpp-winapi csharp css cuesheet c_winapi dart dcl dcpu16 dcs delphi diff div dos dot d ecmascript eiffel email epc e erlang euphoria ezt f1 falcon fo fortran freebasic freeswitch fsharp gambas gdb genero genie gettext glsl gml gnuplot go groovy gwbasic haskell haxe hicest hq9plus html html4strict html5 icon idl ini inno intercal io ispfpanel java5 java javascript jcl j jquery julia kixtart klonec klonecpp kotlin latex lb ldif lisp llvm locobasic logtalk lolcode lotusformulas lotusscript lscript lsl2 lua m68k magiksf make mapbasic mathematica matlab mercury metapost mirc mk-61 mmix modula2 modula3 mpasm mxml mysql nagios netrexx newlisp nginx nimrod nsis oberon2 objc objeck ocaml-brief ocaml octave oobas oorexx oracle11 oracle8 oxygene oz parasail parigp pascal pcre perl6 perl per pf phix php-brief php pic16 pike pixelbender pli plsql postgresql postscript povray powerbuilder powershell proftpd progress prolog properties providex purebasic pycon pys60 python qbasic qml q racket rails rbs rebol reg rexx robots rpmspec rsplus ruby rust sas sass scala scheme scilab scl sdlbasic smalltalk smarty spark sparql sql standardml stonescript swift systemverilog tclegg tcl teraterm texgraph text thinbasic tsql twig typoscript unicon upc urbi uscript vala vbnet vb vbscript vedit verilog vhdl vim visualfoxpro visualprolog whitespace whois winbatch xbasic xml xojo xorg_conf xpp yaml z80 zxbasic*

Downloadable Code Blocks

When you use the <code> or <file> syntax as above, you might want to make the shown code available for download as well. You can do this by specifying a file name after language code like this:

```
<file php myexample.php>
<?php echo "hello world!"; ?>
</file>
```

myexample.php

```php
<?php echo "hello world!"; ?>
```

If you don't want any highlighting but want a downloadable file, specify a dash (`-`) as the language code: `<code - myfile.foo>`.

Embedding HTML and PHP

You can embed raw HTML or PHP code into your documents by using the <html> or <php> tags. (Use uppercase tags if you need to enclose block level elements.)

HTML example:

```
<html>
This is some <span style="color:red;font-size:150%;">inline HTML</span>
</html>
<HTML>
<p style="border:2px dashed red;">And this is some block HTML</p>
</HTML>
```

<html> This is some inline HTML </html> <HTML> <p style=“border:2px dashed red;”>And this is some block HTML</p> </HTML>

PHP example:

```
<php>
echo 'The PHP version: ';
echo phpversion();
echo ' (generated inline HTML)';
</php>
<PHP>
echo '<table class="inline"><tr><td>The same, but inside a block level
element:</td>';
echo '<td>'.phpversion().'</td>';
echo '</tr></table>';
</PHP>
```

<php> echo 'The PHP version: '; echo phpversion(); echo ' (inline HTML)'; </php> <PHP> echo '<table class=“inline”><tr><td>The same, but inside a block level element:</td>'; echo '<td>'.phpversion().'</td>'; echo '</tr></table>'; </PHP>

Please Note: HTML and PHP embedding is disabled by default in the configuration. If disabled, the code is displayed instead of executed.

RSS/ATOM Feed Aggregation

DokuWiki can integrate data from external XML feeds. For parsing the XML feeds, SimplePie is used. All formats understood by SimplePie can be used in DokuWiki as well. You can influence the rendering by multiple additional space separated parameters:

Parameter	Description
any number	will be used as maximum number items to show, defaults to 8
reverse	display the last items in the feed first
author	show item authors names
date	show item dates
description	show the item description. If HTML is disabled all tags will be stripped
nosort	do not sort the items in the feed
n[dhm]	refresh period, where d=days, h=hours, m=minutes. (e.g. 12h = 12 hours).

The refresh period defaults to 4 hours. Any value below 10 minutes will be treated as 10 minutes. DokuWiki will generally try to supply a cached version of a page, obviously this is inappropriate when the page contains dynamic external content. The parameter tells DokuWiki to re-render the page if it is more than *refresh period* since the page was last rendered.

By default the feed will be sorted by date, newest items first. You can sort it by oldest first using the `reverse` parameter, or display the feed as is with `nosort`.

Example:

```
{{rss>http://slashdot.org/index.rss 5 author date 1h }}
```

- Axon Sued Over AI-Powered License Plate Reader Network de BeauHD (05.11.2026 @ 01:00)
- OpenAI Says ChatGPT Is Catching Up to Google In Search de BeauHD (05.11.2026 @ 00:00)
- Netflix Launches First AI-Branded Content Recommendations Feature on TVs de BeauHD (04.11.2026 @ 23:00)
- Waymo Cuts Ties With Uber, Will Serve Riders Directly de BeauHD (04.11.2026 @ 22:00)
- OpenAI Acquires Pierre Computer to Supercharge Codex de BeauHD (04.11.2026 @ 21:00)

Control Macros

Some syntax influences how DokuWiki renders a page without creating any output it self. The following control macros are availble:

Macro	Description
~~NOTOC~~	If this macro is found on the page, no table of contents will be created
~~NOCACHE~~	DokuWiki caches all output by default. Sometimes this might not be wanted (eg. when the <php> syntax above is used), adding this macro will force DokuWiki to rerender a page on every call

Syntax Plugins

DokuWiki's syntax can be extended by Plugins. How the installed plugins are used is described on their appropriate description pages. The following syntax plugins are available in this particular DokuWiki installation:

- Add New Page plugin *2026-07-07* de Damien Regad, Benjamin Santalucia, Sam Wilson and other contributors
  Adds a "new page form" to any wiki page.
- AV Math Table *2026-03-14* de Sherri Wheeler
  Create tables and does math on the columns.
- Blockquote Plugin *2020-09-27* de Anika Henke (previous author: Gina Haeussge)
  Write quotations in a semantically correct way
- Box Plugin *2022-08-16* de Christopher Smith
  Boxes with titles, colour and rounded corners. Syntax: <box width class colours|title> ... </box|caption> width, class, colours title & caption are optional. The title can include some wiki markup, the box contents can include almost any wiki markup.
- btable2: Boolean Table 2 (modified Doodle Plugin) *2023-03-28* de jolZ
  Successor of btable plugin, doodle-like polls without authentication
- Button Plugin *2026-07-14* de Remi Peyronnet
  Add button links syntax
- Command Line Interface (CLI) Plugin *2020-08-18* de Schplurtz le Déboulonné
  Renders transcripts of command line interactions, e.g. for shell and dynamic language interpretor tutorials
- color syntax plugin *2022-10-19* de Harald Hanche-Olsen
  Write colored text in DokuWiki.
- comment *2023-08-18* de Gina Häußge, Michael Klier
  Add comments/notes to your wiki source that won't be shown on the page.
- Doodle Plugin *2009/08/10* de Jonathan Tsai
  helps to schedule meetings
- Dw2Pdf plugin *2026-08-07* de Andreas Gohr and Luigi Micco
  DokuWiki to PDF converter
- Filelist Plugin *2026-06-30* de Gina Häußge, Dokufreaks
  Lists files matching a given glob pattern.
- Gallery Plugin *2026-09-02* de Andreas Gohr
  Creates a gallery of images from a namespace or RSS/ATOM feed
- geotag plugin *2026-07-17* de Mark C. Prins
  Allow a user to annotate pages with a geotag
- GOTO *2021-03-01* de Allen Ormond,cziehr, turnermm
  Easily redirect to other pages in your wiki.
- hidden Plugin *2026-06-04* de Guillaume Turri
  Enable to hide/show details
- htmlmetatags plugin *2024-03-04* de Heiko Heinz
  Set html and open graph meta tags.
- ifauthex plugin *2023-02-08* de Pietro Saccardi
  Toggle DokuWiki page content based on users and groups with arbitrary boolean expressions.
- include plugin *2025-07-22* de Michael Hamann, Gina Häussge, Christopher Smith, Michael Klier, Esther Brunner
  Functions to include another page in a wiki page
- Indexmenu Plugin *2024-01-05* de Samuele Tognini, Gerrit Uitslag

Show a customizable and sortable index for a namespace
- Info Plugin *2020-06-04* de Andreas Gohr
  Displays information about various DokuWiki internals
- keyboard *2023-02-23* de Gina Häußge
  The keyboard plugin provides a combined syntax and action plugin in order to markup text as keyboard keys, similar to (and making use of) the existing (X)HTML tag <kbd>...</kbd>. A quick button for the markup is automatically inserted into the toolbar of the edit form.
- mediathumbnails plugin *2026-01-23* de Thomas Schäfer
  Extracts a thumbnail from media files (ODT, DOCX, PPTX, PDF, JPG, etc.) in a media library and shows it on the wiki page.
- Meta plugin *2024-08-07* de Michael Hamann
  Set Metadata for the current page. (previous authors: Esther Brunner, Gina Häußge, Michael Klier)
- nodisp *2022-09-14* de Myron Turner
  Hide text from brwosoer display or remove from output to browser depending on acl
- Note Plugin *2024-04-15* de Anael Mobilia
  Add Note/Important/Tip/Warning Capability (DIV+CSS box)
- nspages plugin *2026-06-03* de Guillaume Turri
  Presents a toc of the selected namespace using <nspages>
- OpenLayers map plugin for DokuWiki *2026-08-06* de Mark C. Prins
  Provides a syntax for rendering OpenLayers based maps in wiki pages.
- Pageimage *2018-10-12* de lisps, peterfromearth
  Functions to return image for given page
- Pagelist Plugin *2023-08-27* de Matthias Schulte, Michael Hamann, Michael Klier, Gina Haeussge
  Lists pages in a nice formatted way
- PageQuery Plugin *2025-03-04* de Mark C. Prins, previously Symon Bent
  Search for (fulltext) and list wiki pages, sorted and optionally grouped by name, date, creator, abc, etc. in columns. Insert the pagequery markup wherever you want your list to appear. E.g.{{pagequery>[query;fulltext;sort=key:direction,key2:direction;group;limit=??;cols=?;inwords;proper]}} [..] = optional
- Progrecss plugin *2018-08-23* de Luis Machuca Bezzaza
  Prints CSS-based progress bars with <progrecss x% /> or <progrecss x/y />
- Random Include Plugin *2018-04-28* de Vittorio Rigamonti, LarsDW223
  Randomly select a page from a namespace and include it in the current page
- Tag Plugin *2023-10-17* de Michael Hamann, Gina Häussge, Christopher Smith, Michael Klier, Esther Brunner
  tag wiki pages
- TelHex Plugin *2026-11-01* de Falken
  Numéro de téléphone toujours obfusqué en HEX via obfuscate() natif, icône téléphone grise (style natif e-mail) et bouton toolbar optionnel
- Translation Plugin *2025-05-20* de Andreas Gohr
  Supports the easy setup of a multi-language wiki.
- Typography plugin *2020-07-31* de Satoshi Sahara
  Enable typesetting capabilities with CSS font properties such as font face, size, weight, and color of text
- Wrap Plugin *2026-06-02* de Anika Henke
  Universal plugin which combines functionalities of many other plugins. Wrap wiki text inside containers (divs or spans) and give them a class (choose from a variety of preset classes), a width and/or a language with its associated text direction.
- Yearbox Plugin *2021-03-19* de Michael Große (formerly: Symon Bent)
  Builds a complete HTML calendar for the given year, with a link to create a new page for each

day of the year. Existing pages will have a tooltip showing a preview of the page content.

[1)]

This is a footnote

[2)]

when the aspect ratio of the given width and height doesn't match that of the image, it will be cropped to the new ratio before resizing

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