

L'extension caption*

Personnalisation des légendes de flottants

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<http://sourceforge.net/projects/latex-caption/>

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Résumé

L'extension caption permet de personnaliser les légendes de flottants comme figure et table et coopère avec de nombreuses autres extensions.

Note : de nombreuses classes de document disposent déjà d'options et de commandes internes pour personnaliser les légendes. Si ces possibilités vous suffisent, vous n'avez en général pas à vous servir de l'extension caption. Et si vous êtes juste intéressés par la commande `\captionof`, le chargement de la très petite extension `capt-of` est normalement suffisant.

Introduction

✂ Within the standard L^AT_EX document classes captions haven't received the attention they deserve. Simply typeset as an ordinary paragraph there is no remarkable visual difference from the rest of the text, like here :

FIGURE 1 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

There should be possibilities to change this ; for example, it would be nice to make the text of the caption a little bit smaller as the normal text, add an extra margin, typeset the caption label with the same font family and shape as your headings etc. Just like this one :

FIGURE 2 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

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You can do this easily with this package as there are many ready-to-use caption formatting options, but you are free to define your very own stuff, too.



Please note that l'extension caption is only controlling the look & feel of the captions. It does *not* control the placement of the captions. (But you could do so by using other packages like the floatrow package[8].)

Table des matières

1	Using this package	5
2	Options	6
2.1	Formatting	6
2.2	Justification	8
2.3	Fonts	9
2.4	Margins and further paragraph options	11
2.5	Styles	13
2.6	Skips	14
2.7	Lists	15
2.8	Names	16
2.9	Types	16
3	Commands	18
3.1	Typesetting captions	18
3.2	Setting options	20
3.3	Continued floats	22
4	Own enhancements	25
4.1	Further examples	27
5	Document classes & Babel support	30
5.1	Standard L ^A T _E X : article, report, and book	30
5.2	$\mathcal{A}\mathcal{M}\mathcal{S}$: amsart, amsproc, and amsbook	30
5.3	beamer	31
5.4	KOMA-Script : scrartcl, scrreprt, and scrbook	31
5.5	NTG : artikel, rapport, and boek	32
5.6	SMF : smfart and smfbook	32
5.7	thesis	32
5.8	frenchb babel option	33
5.9	frenchle and frenchpro packages	33
6	Package support	34
6.1	algorithms	34
6.2	float	35
6.3	floatflt	35
6.4	ftpage	36

6.5	hyperref	36
6.6	hypcap	37
6.7	listings	37
6.8	longtable	37
6.9	picinpar	38
6.10	picins	38
6.11	rotating	39
6.12	setspace	39
6.13	sidecap	39
6.14	subfigure	40
6.15	supertabular and xtab	40
6.16	threeparttable	40
6.17	wrapfig	40
7	Further reading	42
8	Thanks	42
A	Alphabetical Reference	43
A.1	Options	43
A.2	Commands	44
A.3	Warnings	45
A.4	Errors	48
B	Version history	52
C	Compatibility to older versions	53
C.1	caption v1.x	53
C.2	caption2 v2.x	54
C.3	caption v3.0	55

1 Using this package

`\usepackage` **Insert**

```
\usepackage[\options]{caption}[2016/02/21]
```

into the preamble of your document, i.e. the part of your document between `\documentclass` and `\begin{document}`. The options control how your captions will look like; e.g.,

```
\usepackage[margin=10pt,font=small,labelfont=bf,
             labelsep=endash]{caption}
```

would result in captions looking like the second one in the introduction.

`\captionsetup`

For a later change of options l’extension `caption` provides the command

```
\captionsetup[\float type]{\options} .
```

So

```
\usepackage[margin=10pt,font=small,labelfont=bf]{caption}
```

and

```
\usepackage{caption}
\captionsetup{margin=10pt,font=small,labelfont=bf}
```

are equal in their results.

It’s good to know that `\captionsetup` has an effect on the current environment only. So if you want to change settings for the current `figure` or `table` only, just place the `\captionsetup` command inside the `figure` or `table` right before the `\caption` command. For example

```
\begin{figure}
...
\captionsetup{singlelinecheck=off}
\caption{... }
\end{figure}
```

switches the single-line-check off, but only for this `figure`, so all the other captions remain untouched.

(For a detailed description of `\captionsetup` see [section 3.2: Setting options.](#))

2 Options

2.1 Formatting

`format=` A figure or table caption mainly consists of three parts : the caption label, which says if this object is a ‘Figure’ or ‘Table’ and what number is associated with it, the caption text itself, which is normally a short description of contents, and the caption separator which separates the text from the label.

The *caption format* determines how this information will be presented ; it is specified with the option

`format={format name}` ,

having the name of the caption format as its argument.

There are two standard caption formats :

<code>plain</code>	Typesets the captions as a normal paragraph.
<code>hang</code>	Indents the caption text, so it will ‘hang’ under the first line of the text.
<code>...</code>	Own formats can be defined using <code>\DeclareCaptionFormat</code> . (See section 4: Own enhancements)

An example : Specifying the option

`format=hang`

yields captions like this :

FIGURE 3 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`indentation=` For both formats (`plain` and `hang`) you can setup an extra indentation starting at the second line of the caption. You do this with the option

`indentation={amount}` .

Two examples :

`format=plain,indentation=.5cm`

FIGURE 4 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`format=hang,indentation=-0.5cm`

FIGURE 5 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

labelformat=

With the option

labelformat=*(label format name)*

you specify how the caption label will be typeset. There are five standard caption label formats :

default	The caption label will be typeset as specified by the document class, usually this means the name and the number (like <code>simple</code>). (This is the default behaviour.)
empty	The caption label will be empty.
simple	The caption label will be typeset as a name and a number.
brace	The caption label will be closed with a single (right) brace.
parens	The number of the caption label will be typeset in parentheses.
...	Own label formats can be defined using <code>\DeclareCaptionLabelFormat</code> . (See section 4: Own enhancements)

An example : Using the options

format=plain, labelformat=parens, labelsep=quad

gives captions like this one :

FIGURE (6) White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

Note: Some environments, e.g. the `algorithm` environment offered by the `algorithm2e` package, might react allergic to a change of the caption label format.

labelsep=

With the option

labelsep=*(label separator name)*

you specify what caption separator will be used.¹ You can choose one of the following :

none	There is no caption separator.
colon	The caption label and text will be separated by a colon and a space.
period	The caption label and text will be separated by a period and a space.
space	The caption label and text will be separated by a single space.
quad	The caption label and text will be separated by a <code>\quad</code> .
newline	The caption label and text will be separated by a line break (<code>\\</code>). Please note that this separator does not work with all caption formats (e.g. <code>format=hang</code>), and you'll get an error message trying such combination of options.
endash	The caption label and text will be separated by an en-dash, surrounded by spaces (<code>_--_</code>).
...	Own separators can be defined using <code>\DeclareCaptionLabelSeparator</code> . (See section 4: Own enhancements)

Three examples :

1. If the caption label or the caption text is empty, no separator will be used.

`format=plain,labelsep=period`

FIGURE 7. White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`format=plain,labelsep=newline,singlelinecheck=false`

FIGURE 8

White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`format=plain,labelsep=endash`

FIGURE 9 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`textformat=` With the option

`textformat=<text format name>`

you specify how the caption text will be typeset. There are two standard caption text formats :

<code>empty</code>	The caption text will be suppressed.
<code>simple</code>	The caption text will be typeset as it is.
<code>period</code>	The caption text will be followed by a period.
<code>...</code>	Own text formats can be defined using <code>\DeclareCaptionTextFormat</code> . (See section 4: Own enhancements)

2.2 Justification

`justification=` As addition to the caption format you could also specify a *caption justification*; it is specified with the option

`justification=<justification name>` .

You can choose one of the following :

<code>justified</code>	Typesets the caption as a normal paragraph.
<code>centering</code>	Each line of the caption will be centered.
<code>centerlast</code>	The last line of each paragraph of the caption text will be centered.
<code>centerfirst</code>	Only the first line of the caption will be centered.
<code>raggedright</code>	Each line of the caption will be moved to the left margin.
<code>RaggedRight</code>	Each line of the caption will be moved to the left margin, too. But this time the command <code>\RaggedRight</code> of the <code>ragged2e</code> package will be used to achieve this. The main difference to <code>raggedright</code>

is that the word breaking algorithm of \TeX will work inside captions.²

`raggedleft` Each line of the caption will be moved to the right margin.

`...` Own justifications can be defined using `\DeclareCaptionJustification`. (See [section 4: Own enhancements](#))

Three examples :

`format=plain, justification=centerlast`

FIGURE 10 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`format=hang, justification=raggedright`

FIGURE 11 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`format=plain, labelsep=newline, justification=centering`

FIGURE 12

White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`singlelinecheck=` The standard \LaTeX document classes (`article`, `report`, and `book`) automatically center a caption if it fits in one single line :

FIGURE 13 – A short caption.



L’extension caption adapts this behavior and therefore usually ignores the justification & indention you have set with `justification=` & `indention=` in such case. But you can switch this special treatment of such short captions off with the option

`singlelinecheck=<bool>` .

Using `false`, `no`, `off` or `0` for `<bool>` switches the extra centering off :

`singlelinecheck=false`

Doing so the above short caption would look like

FIGURE 14 – A short caption.

You switch the extra centering on again by using `true`, `yes`, `on` or `1` for `<bool>`. (The default is on.)

2.3 Fonts

`font=`
`labelfont=`

There are three font options which affects different parts of the caption : One affecting the

`textfont=` whole caption (`font`), one which only affects the caption label and separator (`labelfont`) and at least one which only affects the caption text (`textfont`). You set them up using the options

```
font={\font options}    ,
labelfont={\font options}  , and
textfont={\font options}  ,
```

where *\font options* is a list of comma separated font options.

And these are the available font options :

<code>scriptsize</code>	Very small size
<code>footnotesize</code>	The size usually used for footnotes
<code>small</code>	Small size
<code>normalsize</code>	Normal size
<code>large</code>	Large size
<code>Large</code>	Even larger size
<code>normalfont</code>	Normal shape & series & family
<code>up</code>	Upright shape
<code>it</code>	<i>Italic shape</i>
<code>sl</code>	<i>Slanted shape</i>
<code>sc</code>	SMALL CAPS SHAPE
<code>md</code>	Medium series
<code>bf</code>	Bold series
<code>rm</code>	Roman family
<code>sf</code>	Sans Serif family
<code>tt</code>	Typewriter family
<code>singlespacing</code>	Single spacing (See section 6.12: <i>setspace</i>)
<code>onehalfspacing</code>	One-and-a-half spacing (See section 6.12: <i>setspace</i>)
<code>doublespacing</code>	Double spacing (See section 6.12: <i>setspace</i>)
<code>stretch=\langle amount \rangle</code>	<code>\setstretch{\langle amount \rangle}</code> (See section 6.12: <i>setspace</i>)
<code>normalcolor</code>	<code>\normalcolor</code>
<code>color=\langle colour \rangle</code>	<code>\color{\langle colour \rangle}</code> (If the <code>color</code> or <code>xcolor</code> package is loaded, see section 4: <i>Own enhancements</i> for an example)

2. The need for the `ragged2e` package will be detected at run-time, therefore you maybe need a second \LaTeX run if this option is used for the first time.

normal	The combination of the options <code>normalcolor</code> , <code>normalfont</code> , <code>normalsize</code> , and <code>singlespacing</code>
...	Own font options can be defined using <code>\DeclareCaptionFont</code> . (See section 4: Own enhancements)

If you use only one of these options you can omit the braces; e.g., the options `font={small}` and `font=small` will give the same result.

Three examples :

```
font=it, labelfont=bf
```

FIGURE 15 – *White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.*

```
labelfont=bf, textfont=it
```

FIGURE 16 – *White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.*

```
font={small, stretch=0.80}
```

FIGURE 17 – *White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.*

```
font+=
labelfont+=
textfont+=
```

You can also add font options to the current ones, so for example

```
\captionsetup{font=small}
\captionsetup{font+=it}
```

is identical to

```
\captionsetup{font={small,it}}
```

2.4 Margins and further paragraph options

```
margin=
width=
```

For all captions you can specify *either* an extra margin *or* a fixed width : ³

```
margin=<amount> -or-
margin={<left amount>, <right amount>} -or-
width=<amount>
```

```
oneside
twoside
```

If you specify just one *<amount>* for the margin, it will be used for both, the left and right margin, e.g. `margin=10pt` is equivalent to `margin={10pt,10pt}`. In two-side documents the left and right margin will be swapped on even pages. To prevent this you can specify the option `oneside` additionally, e.g. `\captionsetup{margin={0pt,10pt},oneside}`.

But if you are specifying a width, then both, the left and the right margin, will have the same amount.

Three examples will illustrating this :

3. Only fixed widths are supported here; if you are looking for a way to limit the width of the caption to the width of the figure or table, please take a look at the `floatrow`[\[8\]](#) or `threeparttable`[\[22\]](#) package.

`margin=10pt`

FIGURE 18 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`margin={1cm,0cm}`

FIGURE 19 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`width=.75\textwidth`

FIGURE 20 – White sand beaches. The pink smoothness of the conch shell.
A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

Note: When the caption is placed beside the contents (for example in a `SCfigure` environment offered by the `sidecap` package[18]) or the figure is an in-text figure (for example in a `wrapfigure` environment offered by the `wrapfig` package[23]), the margin setting will be automatically reset to `0pt` at the very beginning of the environment. But if you really want to setup an extra margin for these environments, you can do so by setting this margin either inside the environment itself, or by specifying a margin for this particular environment, e.g. `\captionsetup[SCfigure]{margin=10pt}`.

`margin*=` There is also a starred variant of the `margin=` option, `margin*=`, which only changes the margin if no width was set.

`minmargin=` You can also set a minimum or maximum margin amount. This can be useful for limiting the margin amount in smaller environments, e.g. `minipages`. For example the SMF document classes limit the margin amount to `maxmargin=0.1\linewidth`. (See section 5.6: *SMF : smfart and smfbook*)

`maxmargin=`

`parskip=` This option is useful for captions containing more than one paragraph. It specifies the extra vertical space inserted between them :

`parskip=<amount>`

One example :

`margin=10pt,parskip=5pt`

FIGURE 21 – First paragraph of the caption. This one contains some test, just to show how these options affect the layout of the caption.

Second paragraph of the caption. This one contains some text, too, to show how these options affect the layout of the caption.

`hangindent=` The option

`hangindent=<amount>`

is for setting up a hanging indentation starting from the second line of each paragraph. If the caption contains just a single paragraph, using this option leads to the same result as the option `indentation=<amount>` you already know about. But if the caption contains multiple paragraphs you will notice the difference :

```
format=hang,indentation=-.5cm
```

FIGURE 22 – First paragraph of the caption. This one contains some test, just to show how these options affect the layout of the caption.
Second paragraph of the caption. This one contains some text, too, to show how these options affect the layout of the caption.

```
format=hang,hangindent=-.5cm
```

FIGURE 23 – First paragraph of the caption. This one contains some test, just to show how these options affect the layout of the caption.
Second paragraph of the caption. This one contains some text, too, to show how these options affect the layout of the caption.

Note: If your caption contains more than one paragraph, you have to specify an alternative caption for the list-of-figures using the optional argument of `\caption` or `\captionof`, otherwise you will get an error message.

2.5 Styles

`style=` A suitable combination of caption options is called *caption style*. You can compare them more or less to page styles which you set up with `\pagestyle`; the caption style provides all settings for a whole caption layout.

You switch to an already defined caption style with the option

```
style=<style name> .
```

L'extension `caption` pre-defines two styles : `base` and `default`.

The base style puts all options you already know about to values reflecting the look of the captions when using one of the base L^AT_EX document classes `article`, `report`, and `book`. This means that specifying the option

```
style=base
```

has the same effect as specifying all these options :

```
format=plain,labelformat=default,labelsep=colon,
justification=justified,font={},labelfont={},
textfont={},margin=0pt,indentation=0pt
parindent=0pt,hangindent=0pt,singlelinecheck=true
```

(But `justification=centering,indentation=0pt` will be set if the caption fits into a single line.)

In contrast the `default` style follows the default values, reflecting the look of the captions given by the document class you actually use. This style is selected by default and represents these options :

```
format=default,labelformat=default,labelsep=default,
justification=default,font=default,labelfont=default,
textfont=default,margin=0pt,indentation=0pt
parindent=0pt,hangindent=0pt,singlelinecheck=true
```

(But again `justification=centering`, `indentation=0pt` will be set if the caption fits into a single line.)

So if you use one of the base L^AT_EX document classes `article`, `report`, or `book`, both caption styles, `base` and `default`, point to (nearly) the same settings.

Note: Own caption styles can be defined using `\DeclareCaptionStyle`. (See [section 4: Own enhancements](#))

2.6 Skips

`skip=` The vertical space between the caption and the figure or table contents is controlled by the option

`skip=<amount>` .

The standard L^AT_EX document classes `article`, `report` and `book` preset it to `skip=10pt`, but other document classes may use a different amount.

`position=` The `\caption` command offered by L^AT_EX has a design flaw : The command does not know if it stands on the beginning of the figure or table, or at the end. Therefore it does not know where to put the space separating the caption from the content of the figure or table. While the standard implementation always puts the space above the caption in floating environments (and inconsistently below the caption in `longtables`), the implementation offered by this package is more flexible : By giving the option

`position=top` or `position=above`

it's assumed that the caption is standing at the *top* of the environment and therefore the space setup with `skip=<amount>` is placed below the caption. (Please note that `position=top` does *NOT* mean that the caption is actually placed at the top of the figure or table. Instead the caption is usually placed where you place the `\caption` command.) But with

`position=bottom` or `position=below`

it's assumed that the caption is standing at the *bottom* of the environment and therefore the space is placed above the caption. And finally with

`position=auto` (which is the default setting)

l'extension `caption` tries its best to determine the actual position of the caption on its own. Please note that while this is successfully in most cases, it could give wrong results under rare circumstances.

`figureposition=` The `position` option is especially useful when used together with the optional argument of the `\captionsetup` command. (See also [section 3.2: Setting options](#))
`tableposition=`

For example

`\captionsetup[table]{position=above}`

causes all captions within tables to be treated as captions *above* the table (regarding spacing around it). Because this is a very common setting, l'extension `caption` offers the abbreviating options `figureposition=<pos>` and `tableposition=<pos>`, e.g.

```
\usepackage[... ,tableposition=top]{caption}
```

is equivalent to

```
\usepackage[... ]{caption}
\captionsetup[table]{position=top}
```



Please note that the options `skip=`, `position=`, `figureposition=`, and `tableposition=` do not always have an effect. Since it's a matter of the document class to supply the environments `figure` and `table`, it could use its very own spacing, and could decide for itself if the caption will be typeset as “top” or “bottom” caption. For example the KOMA-Script document classes support the `skip=` setting, but will always typeset figure captions as “bottom” captions, and table captions are dependent on the global option `tablecaptionsabove` resp. `tablecaptionsbelow`. (See [section 5.4: KOMA-Script: *scrartcl*, *scrreprt*, and *scrbook*](#))

Furthermore some packages control the behavior of the spacing above and below the caption for themself, e.g. the `float`, the `floatrow`, and the `supertabular` package.

Internally the skip between caption and contents is represented by `\abovecaptionskip` (which is always set above the caption in L^AT_EX's implementation). But there is a second value `\belowcaptionskip` (usually set to 0pt by default) which is set below the caption in L^AT_EX's implementation, but on the other side than `\abovecaptionskip` by this package. So technically speaking, this package swaps the meaning of these two skips when `position=top` is set. Please note that there are several packages around which do the same trick (like the `ftcap`, the `nonfloat`, and the `topcap` package), so the usage of the caption option `position=` is not supported if one of these packages will be used, too.

2.7 Lists

`list=` The `\caption` command usually places an entry in the List of Figures resp. List of Tables. You can either suppress that individually by giving an empty optional argument to `\caption` (see [section 3.1: Typesetting captions](#)), or programmatically by saying

```
list=no (or any other boolean value instead of no) .4
```

`listformat=` With the option

```
listformat=<list format name>
```

you can specify how the figure or table number will be typeset within the List of Figures resp. List of Tables. There are five standard caption list formats :

<code>empty</code>	No number will be typeset.
<code>simple</code>	The number will be typeset with label prefix.
<code>parens</code>	The number will be typeset in parentheses, with label prefix.
<code>subsimple</code>	Same as <code>simple</code> , but without label prefix. (default)
<code>subparens</code>	Same as <code>parens</code> , but without label prefix.
<code>...</code>	Own list formats can be defined using <code>\DeclareCaptionListFormat</code> . (See section 4: Own enhancements)

4. Please note that the subfig package[20] is not supporting this option, it uses the counters `lofdepth` & `lotdepth` for this purpose instead.

The prefix (`=\p@figure` resp. `\p@table`), which runs ahead of the number (`=\the-figure` resp. `\thetable`) in lists (e.g. List of Figure/Table) and references, is usually empty, so the list formats `simple` and `subsimple` gives equal results; same with `parens` and `subparens`. But this can be different for sub-figures or sub-tables listed in the List of Figures resp. List of Tables, or when the label prefix is redefined for a different purpose.⁵

2.8 Names

`name=` The option `name=<name>` changes the name of the *current* environment. This could be useful in conjunction with the optional argument of `\captionsetup`, e.g.

```
\captionsetup[wrapfigure]{name=Fig.}
```

changes the name to “Fig.” for all `wrapfigures` (while all the other figure captions will still have “Figure” as name).

2.9 Types

`type=` The `\caption` command can typeset captions for different types, e.g. `figure` and `table`. If you try to use the `\caption` command outside these environments you will get an error message, because it does not know what kind of caption do you want to have here. But in such situations you can set the caption type manually with

```
type=<float type>
```


prior to the usage of the `\caption` command (and other commands like `\ContinuedFloat`, or `\subcaptionbox` offered by the `subcaption` package, or `\subfloat` offered by the `subfig` package[20]), for example within an non-floating environment like `minipage`:

```
\noindent\begin{minipage}{\textwidth}
  \captionsetup{type=figure}
  \subfloat{...}
  ...
  \caption{...}
\end{minipage}
```

There is also a starred variant of this option, `type*=<float type>`, which behaves different than `type=<float type>` if the `hyperref` package[10] is loaded: While `type=` sets an hyperlink anchor (if `hycap=true` is set), `type*=` does not. (See also [section 6.5: hyperref](#))

Note : Please don’t re-define the internal macro `\@capttype` for yourself, like suggested by some documentations, always use `\captionsetup{type=...}` instead.

Own float types can be defined with `\DeclareFloatingEnvironment` offered by the `newfloat` package, `\newfloat` offered by the `float` package[6], or `\DeclareNewFloatType` offered by the `floatrow` package[6].

-  Please note that you should use the option `type=` only *inside* boxes or environments (like `\parbox` or `minipage`), at best one where no page break could happen between contents and caption. Furthermore some visual side-effects (e.g. mixed-up figure and table settings regarding captions) could occur without using a box or environment, therefore a warning message will be issued if you try to do so.⁶

5. Sub-figures and sub-tables can be typeset using the `subcaption` or `subfig` package.

6. You only get this warning message if you use ϵ -TeX as underlying TeX engine.

3 Commands

3.1 Typesetting captions

`\caption`

The command

```
\caption[<list entry>]{<heading>}
```

typesets the caption inside a floating environment like figure or table. Well, you already know this, but L^AT_EX extension caption offers an extension : If you leave the argument *<list entry>* empty, no entry in the list of figures or tables will be made. For example :

```
\caption[] {A figure without list entry.}
```

Please remember that the *<heading>* is a so-called *moving* argument, if no *<list entry>* has been given. But if a *<list entry>* is given, this argument is moving instead. “*Moving* argument” means that the argument will be written to the list-of file, make it appearing in the “List of Figures” resp. “List of Tables”, too. *Moving* arguments are not allowed to contain *fragile* commands, everything must be *robust*, otherwise the argument could get *broken*, resulting in strange errors at the next L^AT_EX run. Some *fragile* commands could be *protected* by a leading `\protect`, own definitions could get defined with `\DeclareRobustCommand` instead of `\newcommand` to make them *robust*.

An example : `\caption{$\{^{\{137\}}_{55}$Cs}` will cause errors since `\phantom` is *fragile*. So we have either have to use the optional argument *<list entry>* (e.g. `\caption{$\{^{\{137\}}_{55}$Cs}$\{^{\{137\}}_{55}$Cs}`) or add `\protect` to prevent the `\phantom` command from getting *broken* : `\caption{$\{^{\{137\}}_{\protect55}$Cs}`.

But sometimes even this is not sufficient. The reason behind is the so-called single-line-check : It puts the *<heading>* into a horizontal box to determine the width of the caption, and this could cause error messages, too. An example : `\caption{A scheme. \[V_{C} \sim \left \{ \begin{array}{cc} E_{g} & \text{e}\phi_{B} & \text{M-S} \end{array} \right \}. \]}`. Using `\caption{A scheme}{...}` is not sufficient here, it's still leading to errors. (“Missing \$ inserted.”) So we have to put a `\captionsetup{singlelinecheck=off}` just in front of the `\caption` command additionally.

For more information about *moving* arguments and *fragile* & *robust* commands, take a closer look at your L^AT_EX manual or visit <http://www-h.eng.cam.ac.uk/help/tpl/textprocessing/TeX/latex/latex2e-html/fragile.html>.

`\caption*`

The longtable package defines the command `\caption*` which typesets the caption without label and without entry in the list of tables. An example :

```
\begin{longtable}{...}
  \caption*{A table}\\
  ...
\end{longtable}
```

looks like

A table

	x	y
a	1	2
b	3	4

L^Aextension caption offers this feature, too, so you can use this command now within every floating environment like figure or table, like :

```

\begin{table}
  \caption*{A table}
  ...
\end{table}

```

`\captionof`
`\captionof*` Sometimes you want to typeset a caption *outside* a floating environment, putting a figure within a non-floating minipage for instance. For this purpose l’extension caption offers the command

```
\captionof{<float type>}[<list entry>]{<heading>}
```

Note that the first argument, the *<float type>*, is mandatory here, because the `\captionof` command needs to know which name to put into the caption label (e.g. “Figure” or “Table”) and in which list to put the contents entry. An example :

```
\captionof{table}{A table}
```

typesets captions like this :

TABLE 1 – A table

The star variant `\captionof*` has the same behavior as the `\caption*` command : It typesets the caption without label and without entry to the list of figures or tables.



Since `\captionof` uses the option `type` internally, the same restrictions as for the `type` option apply here, so you should use both `\captionof` and `\captionof*` only *inside* boxes or environments, too. (See [section 2.9: Types](#))

`\captionlistentry` Under certain circumstances it could be useful to make a list-of-figure (or table) entry on its own. This could be achieved with

```
\captionlistentry[<float type>]{<list entry>}
```

One example : It’s quite easy to have a `longtable` with captions above the contents and a single list entry which points to the first page of the table :

```

\begin{longtable}{... }
  \caption{... }\\
\endfirsthead
  \caption[ ]{... }\\
\endhead
...

```

But since the `longtable` package does not offer an `\endfirstfoot` command, you cannot easily have captions *below* the table contents and a single list entry which points to the first page of the table. Here is where the `\captionlistentry` command could be used :

```

\begin{longtable}{... }
  \caption[ ]{... }\\
\endfoot
  \captionlistentry{... }
...

```

(Another example can be found in [section 4.1: Further examples](#).)

There is also a starred variant, `\captionlistentry*`, which does not increment the *float type* counter. (Note that inside `longtable` environments `\captionlistentry` never increments the table counter. See also [section 6.8: *longtable*](#).)

Please note that *list entry* is a *moving* argument, so everything it contains must be *robust*. (See also explanation of `\caption`)

3.2 Setting options

`\captionsetup`

We already know the `\captionsetup` command (see [section 1: *Using this package*](#)), but this time we get enlighten about its optional argument *float type*.

Remember, the syntax of this command is

```
\captionsetup[float type]{options}
```

If a *float type* gets specified, all the *options* don't change anything at this time. Instead they only get marked for a later use, when a caption inside of a floating environment of the particular type *float type* gets typeset. For example

```
\captionsetup[figure]{options}
```

forces captions within a `figure` environment to use the given *options*.

Here comes an example to illustrate this :

```
\captionsetup{font=small}
\captionsetup[figure]{labelfont=bf,textfont=it}
```

gives captions like this :

FIGURE 24 – A figure

TABLE 2 – A table

As you see the command `\captionsetup[figure]{...}` only changes the look of the `figure` caption labels, not touching the other ones.

As *float type* you can usually give one of these two only : `figure` or `table`. But as we will see later some \LaTeX packages (like the `floatrow`, `longtable`, and `sidecap` package for example) and also this package offer additional environments with captions and these two commands can also be used with them. (See [section 4: *Own enhancements*](#) and [section 6: *Package support*](#))

There is also a starred variant of `\captionsetup` :

```
\captionsetup*[float type]{options}
```

While the non-starred variant can give you warnings—for example if the *options* are actually not used throughout the document (e.g. a `\captionsetup[table]{font=sf}` without a `table`)—the starred variant will not.

`\clearcaptionsetup`

If you want to get rid of these parameters marked for an automatic use within a particular environment you can use the command

```
\clearcaptionsetup[option]{float type}
```

For example `\clearcaptionsetup{figure}` would clear all the extra handling for figures in the example above :

```

\captionsetup{font=small}
\captionsetup[figure]{labelfont=bf,textfont=it}
...
\caption{A figure}
...
\clearcaptionsetup{figure}
...
\caption{A figure}
...

```

FIGURE 25 – A figure

FIGURE 26 – A figure

If an optional argument *⟨option⟩* is given, only the settings regarding this particular *⟨option⟩* are cleared.⁷ While the example above not only clears the options `labelfont=bf`, `textfont=it` for figures (but all options for figures instead), this one would only clear the `labelfont=bf` setting, leaving all other settings for figures intact :

```

\captionsetup{font=small}
\captionsetup[figure]{labelfont=bf,textfont=it}
...
\caption{A figure}
...
\clearcaptionsetup[labelfont]{figure}
...
\caption{A figure}
...

```

FIGURE 27 – A figure

FIGURE 28 – A figure

Analogous to `\captionsetup*` there is also a starred form `\clearcaptionsetup*` which suppresses warnings if the given *⟨option⟩* was not setup for the specified *⟨float type⟩*.

`\showcaptionsetup` For debugging purposes the command

```
\showcaptionsetup{⟨float type⟩}
```

is offered. It generates a log file entry, showing the given options for the specified *⟨float type⟩*. For example

```

\captionsetup[figure]{labelfont=bf,textfont=it}
\showcaptionsetup{figure}

```

gives the info :

```

Caption Info: Option list on 'figure'
Caption Data: {labelfont=bf,textfont=it} on input line 5.

```

7. You can only specify *one* option here, not a list of options. If you want to clean more than one option, you need to use more than one `\clearcaptionsetup`.

3.3 Continued floats

`\ContinuedFloat` Sometimes you want to split figures or tables without giving them their own reference number. This is what the command

```
\ContinuedFloat
```

is for; it should be used as first command inside the floating environment. It prevents the incrementation of the relevant counter (usually done by `\caption`), so a figure or table containing a `\ContinuedFloat` inside gets the same reference number as the figure or table before. An example :

```
\begin{table}
  \caption{A table}
  ...
\end{table}
...
\begin{table}\ContinuedFloat
  \caption{A table (cont.)}
  ...
\end{table}
```

gives the following result :

TABLE 3 – A table

...

TABLE 3 – A table (cont.)

...

Furthermore the `\ContinuedFloat` command executes options associated with the type name “ContinuedFloat”. For example this can be used to switch to a different label format for continued figures or tables, as shown here :

```
\DeclareCaptionLabelFormat{continued}{Continued #1~#2}
\captionsetup[ContinuedFloat]{labelformat=continued}
...
\begin{table}\ContinuedFloat
  \caption{A table}
  ...
\end{table}
```

Continued TABLE 3 – A table

...

(See [section 4: Own enhancements](#) for an explanation of `\DeclareCaptionLabelFormat`.)

There is also a \LaTeX counter called `ContinuedFloat` which could be used for own purposes. For ordinary (floating) environments it’s set to zero, to one for the first continued float, to two inside the second one, and so on. So every `\ContinuedFloat` increments this counter and a floating environment without `\ContinuedFloat` command resets this counter to zero. An example :

```

\DeclareCaptionLabelFormat{cont}{\#1~\#2\alph{ContinuedFloat}}
\captionsetup[ContinuedFloat]{labelformat=cont}
...
\begin{table}\ContinuedFloat
  \caption{A table}
  ...
\end{table}

```

TABLE 3c – A table

...

A reference to this table would still result in the output “**Tableau 3**” since only the caption label format was changed. If you would like to use the `ContinuedFloat` counter for the references, too, you could redefine the command `\theContinuedFloat` instead, which will be appended to the figure or table counter automatically in continued floats and is preset to be empty.

```

\renewcommand\theContinuedFloat{\alph{ContinuedFloat}}
...
\begin{table}\ContinuedFloat
  \caption{A table}
  ...
\end{table}

```

TABLE 3d – A table

...

A reference to that table would result in the output “**Tableau 3d**”.

`\ContinuedFloat*`

Suppose you want to start the first figure or table of such a series with a kind of “Figure 7a” and not with “Figure 7” (and the second one with “Figure 7b” instead of “Figure 7a”). This is possible, too, by using the starred variant `\ContinuedFloat*` which—just like `\ContinuedFloat`—executes options associated with the type name “Continued-Float” and increments the \LaTeX counter `ContinuedFloat`, *but* marks the first figure or table of a series instead :

```

\renewcommand\theContinuedFloat{\alph{ContinuedFloat}}
...
\begin{figure}\ContinuedFloat*
  ...
  \caption{First figure of a series}
\end{figure}
...
\begin{figure}\ContinuedFloat
  ...
  \caption{Second figure of a series}
\end{figure}
...
\begin{figure}\ContinuedFloat
  ...

```

```
\caption{Third figure of a series}
\end{figure}
```

FIGURE 29a – First figure of a series

FIGURE 29b – Second figure of a series

FIGURE 29c – Third figure of a series

Note: Unfortunately `\ContinuedFloat*` is not available if the subfig package[20] is loaded.

A note about longtables

If you want to have a different caption label in `longtables` (offered by the `longtable` package[13]) after a page break, this can *not* be archived by using `\ContinuedFloat`, but instead you could write something like :

```
\DeclareCaptionLabelFormat{continued}{Continued #1~#2}
...
\begin{longtable}{...}
  \caption{A longtable}\\
\endfirsthead
  \captionsetup{labelformat=continued}
  \caption[] {A longtable}\\
\endhead
...
\end{longtable}
```


4 Own enhancements

A family of commands is provided to allow users to define their own formats etc. This enables information on separators, justification, fonts, and styles to be associated with a name and kept in one place. (These commands need to appear in the document preamble, this is the part between `\documentclass` and `\begin{document}`.)

`\DeclareCaption-`
`Format`

You can define your own caption formats using the command

```
\DeclareCaptionFormat{<name>}{<code using #1, #2 and #3>}
```

At usage the system replaces #1 with the caption label, #2 with the separator and #3 with the text. So the standard format `plain` is pre-defined by l’extension `caption` as

```
\DeclareCaptionFormat{plain}{#1#2#3\par}
```

There is also a starred variant, `\DeclareCaptionFormat*`, which causes the code being typeset in T_EX’s vertical (instead of horizontal) mode, but does not support the `indentation=` option.

`\DeclareCaption-`
`LabelFormat`

Likewise you can define your own caption label formats :

```
\DeclareCaptionLabelFormat{<name>}{<code using #1 and #2>}
```

At usage #1 gets replaced with the name (e.g. “figure”) and #2 gets replaced with the reference number (e.g. “12”). An example :

```
\DeclareCaptionLabelFormat{bf-parens}{(\textbf{#2})}
\captionsetup{labelformat=bf-parens,labelsep=quad}
```

(30) White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`\bothIfFirst`
`\bothIfSecond`

If you define your own caption label formats and use the subcaption or subfig[20] package, you should take care of empty caption label names. For this purpose the commands

```
\bothIfFirst{<first arg>}{<second arg>} and
\bothIfSecond{<first arg>}{<second arg>}
```

are offered. `\bothIfFirst` tests if the first argument exists (means : is not empty), `\bothIfSecond` tests if the second argument exists. If yes, both arguments get typeset, otherwise none of them.

For example the standard label format `simple` is *not* defined as

```
\DeclareCaptionLabelFormat{simple}{#1~#2}
```

because this could cause an extra space if #1 is empty. Instead `simple` is defined as

```
\DeclareCaptionLabelFormat{simple}%
{\bothIfFirst{#1}{~}#2}
```

causing the space to appear only if the label name is present.

`\DeclareCaption-`
`TextFormat`

Likewise you can define your own caption text formats :

```
\DeclareCaptionTextFormat{<name>}{<code using #1>}
```

At usage #1 gets replaced with the caption text.

`\DeclareCaption-`
`LabelSeparator`

You can define your own caption label separators with

```
\DeclareCaptionLabelSeparator{<name>}{<code>}
```

Again an easy example taken from l’extension `caption` itself :

```
\DeclareCaptionLabelSeparator{colon}{: }
```

There is also a starred variant, `\DeclareCaptionLabelSeparator*`, which causes the code being typeset without using the `labelfont=` setting. So for example the label separators `quad`, `newline`, and `endash` are defined in this way.

`\DeclareCaption-
Justification`

You can define your own caption justifications with

```
\DeclareCaptionJustification{<name>}{<code>}
```

The `<code>` simply gets typeset just before the caption. E.g. using the justification `raggedright`, which is defined as

```
\DeclareCaptionJustification{raggedright}{\raggedright}
```

typesets captions with all lines moved to the left margin.

`\DeclareCaption-
Font`

You can define your own caption fonts with

```
\DeclareCaptionFont{<name>}{<code>}
```

For example this package defines the options `small` and `bf` as

```
\DeclareCaptionFont{small}{\small}
```

```
\DeclareCaptionFont{bf}{\bfseries}
```

An example which brings color into life :

```
\usepackage{color}
\DeclareCaptionFont{red}{\color{red}}
\DeclareCaptionFont{green}{\color{green}}
\DeclareCaptionFont{blue}{\color{blue}}
\captionsetup{labelfont={blue,bf},textfont=green}
```

FIGURE 31 – White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

But since l’extension `caption` already includes the tricky definition

```
\DeclareCaptionFont{color}{\color{#1}}
```

you can get the same result simply with

```
\usepackage{color}
\captionsetup{labelfont={color=blue,bf},
textfont={color=green}}
```

`\DeclareCaption-
Style`

You can define your own caption styles with

```
\DeclareCaptionStyle{<name>}[<additional options>]{<options>}
```

Remember, caption styles are just a collection of suitable options, saved under a given name. You can wake up these options at any time with the option `style=<style name>`.

All caption styles are based on the base set of options. (See [section 2.5: Styles](#) for a complete list.) So you only need to specify options which are different to them.

If you specify `<additional options>` they get used in addition when the caption fits into a single line and this check was not disabled with the option `singlelinecheck=off`.

Again a very easy example taken from the core of this package : The caption style `base` is pre-defined as

Something more exciting :

gives you caption like these ones :

FIGURE 33: A long long long long long long long long long long long long long long long long
long long long long long long long long long long caption.

You can define your own caption list formats with

At usage #1 gets replaced with the label prefix (e.g. \p@figure), and #2 gets replaced with the reference number (e.g. \thefigure).

Example 1

```
\DeclareCaptionFormat{myformat}{#1#2\\#3}
```

FIGURE 34 –

You could even use an indentation with this caption format :

This would look like this :

FIGURE 35 –

Instead, you would like to have an indentation only of the first line of the caption text ? No problem, e.g.

27

would give you captions like

FIGURE 36 –

White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

But you want to have an caption option for this indentation, so you can use it for example with `\captionsetup[figure]{myindentation=...}`? This could be done, too :

```
\newlength\myindentation
\DeclareCaptionOption{myindentation}%
    {\setlength\myindentation{#1}}
\DeclareCaptionFormat{myformat}%
    {#1#2\\hspace*{\myindentation} #3}
...
\captionsetup{format=myformat,myindentation=1cm}
```

would give the same result as the example above.

Example 2

You want captions to look like this :

White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

(FIGURE 37)

You could do it this way :

```
\DeclareCaptionFormat{reverse}{#3#2#1}
\DeclareCaptionLabelFormat{fullparens}%
    {(\bothIfFirst{#1}{~}{#2})}
\DeclareCaptionLabelSeparator{fill}{\hfill}
\captionsetup{format=reverse,labelformat=fullparens,
    labelsep=fill,font=small,labelfont=it}
```

Example 3

The caption text should go into the left margin? A possible solution would be :

```
\DeclareCaptionFormat{llap}{\llap{#1#2}#3\par}
\captionsetup{format=llap,labelsep=quad,singlelinecheck=no}
```

As a result you would get captions like this :

FIGURE 38 White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

If the indentation into the margin shall be fixed, you could use a combination of `\llap` and `\makebox`, for example :

```
\DeclareCaptionFormat{llapx}%
    {\llap{\makebox[5em][l]{#1}}#3\par}
\captionsetup{format=llapx,singlelinecheck=off}
```

FIGURE 39 White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

Example 4

This example puts a figure aside a table, but uses only one common caption for both. This will be achieved by a combination of `\DeclareCaptionLabelFormat` and `\captionlistentry`:

```
\DeclareCaptionLabelFormat{andtable}%
    {#1~#2 \& \tablename~\thetable}

...
\begin{figure}
  \centering
  \includegraphics{...}%
  \qqquad
  \begin{tabular}[b]{\ldots}
    ...
  \end{tabular}
  \captionlistentry[table]{...}
  \captionsetup{labelformat=andtable}
  \caption{...}
\end{figure}
```

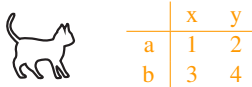


FIGURE 40 & TABLE 4 – A figure and a table with a common caption ⁸

(Please remember that `\captionlistentry` increments the figure resp. table counter.)

8. The picture was taken with permission from the L^AT_EX Companion[1] examples.

5 Document classes & Babel support

This section will give you an overview of the document classes the caption supports, what do they already offer regarding captions, what side effects will occur when using the caption package with them, and what are the ‘default’ settings for them.

The ‘default’ settings depend on the document class you use; they represent how the class author wanted the captions to look like. So for example setting `format=default` can give you different visual designs when used with different document classes.



If you don’t find the document class you use in this section, you usually don’t have to worry : Many document classes (e.g. the octavo class) are derived from one of the standard document classes `article`, `report`, or `book`, and behave the same regarding captions. L’extension caption automatically does a compatibility check against the document class used and will give you the clear warning

```
Package caption Warning: Unsupported document class (or package) detected,
(caption)                usage of the caption package is not recommended.
See the caption package documentation for explanation.
```

if such an incompatibility was detected. If you don’t get such warning everything is fine, but if you get it the usage of l’extension caption is not recommended and especially not supported.

If you get such a compatibility warning but decide to use l’extension caption anyway, you should watch carefully what side-effects occur, usually the look and feel of your captions will change by just including l’extension caption without options, meaning they do not look like as intended by the author of the document class. If this is fine for you, you should first specify the option `style=base` via `\usepackage[style=base]{caption}` or `\captionsetup{style=base}` to set l’extension caption into a well-defined state. Afterwards you can start setting your own options additionally and keep your fingers crossed.

5.1 Standard L^AT_EX : article, report, and book

Option	default value
<code>format=</code>	<code>plain</code>
<code>labelformat=</code>	<code>simple</code>
<code>labelsep=</code>	<code>colon</code>
<code>justification=</code>	<code>justified</code>
<code>font=</code>	<i>none</i>
<code>labelfont=</code>	<i>none</i>
<code>textfont=</code>	<i>none</i>

(This also applies to document classes derived from them.)

5.2 A_MS : amsart, amsproc, and amsbook

Option	default value
<code>format=</code>	<code>plain</code>
<code>labelformat=</code>	<code>simple</code>
<code>labelsep=</code>	<code>.\enspace</code>
<code>justification=</code>	<code>justified</code>
<code>font=</code>	<code>\@captionfont</code>
<code>labelfont=</code>	<code>\@captionheadfont</code>
<code>textfont=</code>	<code>\@captionfont\upshape</code>

(`\@captionfont` will be set to `\normalfont`, and `\@captionheadfont` to `\scshape` by the \mathcal{AMS} document classes.)

Furthermore the margin will be set to `\captionindent` for more-than-one-line captions (which will be set to `3pc` by the \mathcal{AMS} classes), the margin for single-line captions will be set to the half of it instead. If you want to use a common margin for both, insert `\clearcaptionsetup[margin*]{singleline}` into the preamble of your document, after loading `l'extension caption`.

Additionally the options `figureposition=b`, `tableposition=t` will be set. You can override these settings by specifying other values for `figureposition=` or `tableposition=` in the option list while loading `l'extension caption`.

5.3 beamer

Option	default value
<code>format=</code>	<code>plain</code>
<code>labelformat=</code>	<i>not numbered</i>
<code>labelsep=</code>	<code>colon</code>
<code>justification=</code>	<code>raggedright</code>
<code>font=</code>	beamer “caption” <i>settings</i>
<code>labelfont=</code>	beamer “caption name” <i>settings</i>
<code>textfont=</code>	<i>none</i>

Build-in features, and side-effects

You can setup font and color settings with `\setbeamerfont{caption}{\langle options \rangle}` and `\setbeamerfont{caption name}{\langle options \rangle}`. This will still work, unless you set a different font with `\captionsetup{font=\langle options \rangle}` or `\captionsetup{labelfont=\langle options \rangle}`.

Furthermore the beamer classes offer different caption templates which can be chosen with `\setbeamertemplate{caption}[\langle template \rangle]`. Since `l'extension caption` replaces this caption template mechanism, `\defbeamertemplate*{caption}{\langle template code \rangle}` and `\setbeamertemplate{caption}[\langle template \rangle]` will have no effect when `l'extension caption` is used. (Exception : Selecting the template default, numbered, or caption name own line will be recognized by `l'extension caption` and be mapped to corresponding options.)

5.4 KOMA-Script : scrartcl, scrreprt, and scrbook

Option	default value
<code>format=</code>	<i>uses</i> <code>\setcapindent</code> & <code>\setcaphanging</code> <i>settings</i>
<code>labelformat=</code>	<i>like simple, but with support of “autodot”</i>
<code>labelsep=</code>	<code>\captionformat</code>
<code>justification=</code>	<code>justified</code>
<code>font=</code>	<code>\setkomafont{caption}</code> <i>settings</i>
<code>labelfont=</code>	<code>\setkomafont{captionlabel}</code> <i>settings</i>
<code>textfont=</code>	<i>none</i>

Build-in features

The KOMA-Script document classes offer many ways to customize the look and feel of the captions. For an overview and a full description please take a look at the KOMA-Script documentation, section ‘Tables and Figures’.

Side effects

The optional argument of `\setcapwidth` is not supported and will be ignored if used in conjunction with the caption package. Furthermore the KOMA-Script options `tablecaptionabove` & `tablecaptionbelow` and the commands `\captionabove` & `\captionbelow` are stronger than the `position=` setting offered by the caption package.

5.5 NTG : artikel, rapport, and boek

Option	default value
<code>format=</code>	<code>plain</code>
<code>labelformat=</code>	<code>simple</code>
<code>labelsep=</code>	<code>colon</code>
<code>justification=</code>	<code>justified</code>
<code>font=</code>	<i>none</i>
<code>labelfont=</code>	<code>\CaptionLabelFont</code>
<code>textfont=</code>	<code>\CaptionTextFont</code>

Build-in features, and side-effects

`\CaptionLabelFont` and `\CaptionTextFont` can be set either directly or by using `\CaptionFonts`. Both is still supported unless you use one of the two options `labelfont=` or `textfont=` offered by l’extension caption.

5.6 SMF : smfart and smfbook

Since the SMF document classes are derived from the \mathcal{AMS} document classes the same default values are valid here.

Additionally the margin is limited up to the tenth of the `\linewidth`. If you don’t like this limitation, you can switch it off with the option `maxmargin=off` or `maxmargin=false` (which both means the same).

5.7 thesis

Option	default value
<code>format=</code>	<code>hang</code>
<code>labelformat=</code>	<i>like simple, but with short name</i>
<code>labelsep=</code>	<code>colon</code>
<code>justification=</code>	<code>justified</code>
<code>font=</code>	<i>none</i>
<code>labelfont=</code>	<code>\captionheaderfont</code>
<code>textfont=</code>	<code>\captionbodyfont</code>

Build-in features, and side-effects

The caption label font can be set with `\captionheaderfont`, the caption text font with `\captionbodyfont`. Both is still supported unless you use one of the two options `labelfont=` or `textfont=` offered by l’extension `caption`.

5.8 frenchb babel option

If you use the `frenchb` option of the `babel` package with one of the three standard L^AT_EX classes (or a one derived from them) the default `labelsep=` will be set to `\CaptionSeparator` (offered by `frenchb`), overriding the default value set by the document class. So redefining `\CaptionSeparator` will still work, unless you don’t select a different `labelsep=` than the default one.



Please load l’extension `caption` *after* the `babel` package.

5.9 frenchle and frenchpro packages

If you use the `frenchle` or `frenchpro` package, the default `labelsep=` will be set to `\captionseparator` (offered by `frenchle/pro`) plus `\space`, overriding the default value set by the document class. So redefining `\captionseparator` will still work, unless you don’t select a different `labelsep=` than the default one.

Furthermore the default `textfont=` will be set to `textfont=it`, since this emulates the default setting of `\captionfont` defined by the `frenchle` or `frenchpro` package. Please note that the command `\captionfont` is used by the `caption` package internally for a different purpose, so you should not change it (anymore).

The command `\unnumberedcaptions{⟨figure or table⟩}` will still work, but only unless you don’t select a different `labelformat=` than the default one.



Please load l’extension `caption` *after* the `frenchle` or `frenchpro` package.

6 Package support

L’extension caption was adapted to the following packages which deals with captions, too :

float, floatfit, fltpage, hyperref, hycap, listings, longtable, picinpar, picins, rotating, setspace, sidecap, subfigure, supertabular, threeparttable, wrapfig, and xtab

Furthermore the floatrow package[8], the subcaption package (which is part of the caption package bundle), and the subfig package[20] support l’extension caption and use its \captionsetup interface.



If a package (or document class) unknown to l’extension caption redefines the \caption command as well, this redefinition will be preferred over the one this package offers, providing maximum compatibility and avoiding conflicts. If such a potential incompatibility is detected, you will see this warning message :⁹

```
Package caption Warning: \caption will not be redefined since it's already
(caption)                redefined by a document class or package which is
(caption)                unknown to the caption package.
See the caption package documentation for explanation.
```

As a result, the following features offered by l’extension caption will not be available :

- the options labelformat=, position=auto, list=, and listformat=
- \caption* (to produce a caption without label)
- \caption[] {... } (to produce no entry in the List of Figures or Tables)
- \caption{} (to produce an empty caption without label separator)
- \ContinuedFloat
- correctly justified captions in environments like wide and addmargin which add extra margins
- the hycap feature (See [section 6.5: hyperref](#))
- the sub-caption feature (See subcaption package documentation)

compatibility=

You can override this compatibility mode by specifying the option

```
compatibility=false
```

when loading l’extension caption. But please note that using this option is neither recommended nor supported since unwanted side-effects or even errors could occur afterwards. (For that reason you will get a warning about this.)

6.1 algorithms

The algorithms package bundle[5] provides two environments : The algorithmic environment provides a possibility for describing algorithms, and the algorithm environment provides a “float” wrapper for algorithms.

Since the algorithm environment is implemented via \newfloat provided by the float package[6], please see [section 6.2: float](#).

9. You can suppress this warning by specifying the option compatibility=true when loading l’extension caption.

6.2 float

The float package[6] introduces the commands `\restylefloat` to give existing floating environments a new look & feel and `\newfloat` to define new floating environments. It also provides the “H” float placement option which places the environments “here” instead of letting them floating around.

For floating environments defined with `\newfloat` or `\restylefloat` the position option has no effect on the main caption anymore, since its placement and spacing will be controlled by the selected float style instead.

A caption style and options defined with the name of the float style will be executed additionally to the regular ones. Using this mechanism l’extension caption emulates the default look & feel of the ruled captions : It defines the caption style

```
\DeclareCaptionStyle{ruled}%  
    {labelfont=bf,labelsep=space,strut=off} .
```

So to change this you need either define your own caption style called `ruled` or use `\captionsetup[ruled]{<options>}` to specify additional options.

Also by using this mechanism the skip between a boxed float and its caption is specified, overriding its global value :

```
\captionsetup[boxed]{skip=2pt}
```

For changing this, just use `\captionsetup[boxed]{skip=<value>}` with an appropriate value. Or if you want to use the global skip setting instead, you can remove the usage of the local setting for these floats with `\clearcaptionsetup[skip]{boxed}`.

Note: Only one single caption can be typeset inside environments defined with `\newfloat` or `\restylefloat`, furthermore these environments are not behaving exactly like the pre-defined floats figure and table. As a consequence many packages do not cooperate well with these. Furthermore the float package has some caveats & limitations, so if you just want to define a new simple floating environment—behaving like figure or table—I recommend using `\DeclareFloatingEnvironment` offered by the newfloat package instead. And for defining non-simple floating environments and customization I recommend using `\DeclareNewFloatType` offered by the floatrow package[8].

6.3 floatfit

The floatfit package[7] offers figures and tables which do not span the full width of a page and are float around by text.

If you want to setup special options for the floatingfigure and floatingtable environments you can use

```
\captionsetup[floatingfigure]{<options>} and  
\captionsetup[floatingtable]{<options>} .
```

These options will be executed additionally to the regular ones for figure resp. table.

Note: The margin resp. width setting will not be used for these figures resp. tables, unless you set it explicit with `\captionsetup[floatingfigure]{...}` resp. `\captionsetup[floatingtable]{...}`.

6.4 fltpage

The fltpage package^[9] offers the outhouse of the caption for figures or tables which needs the whole page for its contents. This will be done by placing the caption on the bottom of the previous or next page.

If you want to setup special options for the FPfigure and FPtable environments you can use

```
\captionsetup[FPfigure]{<options>} and  
\captionsetup[FPtable]{<options>}
```

These options will be executed additionally to the regular ones for figure or table.

6.5 hyperref

The hyperref package^[10] is used to handle cross referencing commands in LaTeX to produce hypertext links in the document.

There are two options available to control the placement of hyperlink anchors : ¹⁰

hycap=true or hycap=false

If set to true all hyperlink anchors – where entries in the List of Figures, \ref, and \autoref will link to – are placed at the beginning of the (floating) environment.

If set to false the hyperlink anchor is (usually) placed at the caption.

(The default setting is hycap=true.)

hycap=space=*<amount>*

Because it looks poor if the hyperlink points exactly at the top of the figure or table, you can specify a vertical distance between the hyperlink anchor and the (floating) environment itself, e.g. hycap=space=0pt removes this distance.

(The default setting is hycap=space=0.5\baselineskip.)

Both settings have no effect in lstlistings (provided by the listings package), longtables (provided by the longtable package), supertabulars (provided by the supertabular package), and xtabulars (provided by the xtab package), within these environments hyperlink anchors will always be placed as if hycap=true and hycap=space=0pt would be set.

Please note :

```
\captionof{<type>}{...} vs. \captionsetup{type=<type>}+\caption{...}
```

Without hyperref loaded, both will give you identical results. But with hyperref loaded, and with hycap=true requested, the hyperlink anchor will be placed different. For example :

```
\begin{minipage}{\linewidth}  
...  
  \captionof{figure}{A figure}  
\end{minipage}
```

will place the hyperlink anchor at the caption. (And if hycap=true is set, you will get a warning about this.) But

```
\begin{minipage}{\linewidth}  
  \captionsetup{type=figure}  
  ...  
  \caption{A figure}  
\end{minipage}
```

10. These options are named after the hycap package which they supersede.

will place the hyperlink anchor at the beginning of the minipage, since `\captionsetup{type=figure}` does not only set the caption type to “figure” but does place a hyperlink anchor, too.

`\caption[]{...}` vs. `\captionsetup{list=false}+\caption{...}`

Again, without `hyperref` loaded, both will give you identical results. But with `hyperref` loaded, the difference is in the nuances. So for example the optional argument of `\caption` will also be written to the aux file, and will be used by the `\nameref` command. So if you choose to use `\caption` with empty optional argument, `\nameref` will also give you an empty result. So it’s better to use `\captionsetup{list=false}` if you don’t want an entry in the List of Figures or List of Tables.

6.6 hypcap

The `hypcap` package[11] offers a solution to the problem that links to a float using `hyperref` may anchors to the caption rather than the beginning of the float. Since l’extension `caption v3.1` already solves this problem for itself, the `hypcap` package is usually not needed.

If the `hypcap` package is loaded additionally to the `hyperref` package, it takes over the control of the hyperlink anchor placement from l’extension `caption`, overriding the options `hypcap=` and `hypcapspace=`.

So for a manual placement of hyperlink anchors `\captionsetup{type=<type>}` is not sufficient anymore, instead you need to use `\capstart` (provided by the `hypcap` package) for this.

Regarding the automatically placement the `hypcap` package offers good placement of hyperlink anchors for the floating environments `figure` and `table` only. In contrast the `hypcap=true` option of l’extension `caption` also offers good placements of hyperlink anchors for floating-figures (provided by the `floatflt` package), `FPfigures` & `FPtables` (provided by the `fltpage` package), `figwindows` (provided by the `picinpar` package), `parpics` (provided by the `picins` package), `SCfigures` (provided by the `sidecap` package), `threeparttables` (provided by the `threeparttable` package), and `wrapfigures` (provided by the `wrapfig` package).

6.7 listings

The `listings` package[12] typesets programming code.

If you want to setup special options for the `lstlisting` environment you can use

```
\captionsetup[lstlisting]{<options>}
```

Please note that the `listings` package has its very own options for controlling the position and the skips of the caption : `captionpos=`, `abovecaptionskip=`, and `belowcaptionskip=`. (See `listings` documentation for details.) These `listings` options override the `caption`’s ones, but can be again overwritten by `\captionsetup[lstlisting]{...}`, e.g.

```
\captionsetup[lstlisting]{skip=10pt}
```

6.8 longtable

The `longtable` package[13] offers an environment which behaves similar to the `tabular` environment, but the table itself can span multiple pages.

If you want to setup special options for the `longtable` environment you can use

```
\captionsetup[longtable]{<options>} .
```

These options will be executed additionally to the regular ones for `table`.

The margin and width settings usually override `\LTcapwidth`, so you get an equal look & feel of the captions in `tables` and `longtables`. But if you set `\LTcapwidth` to a value different than its default = 4in, l’extension caption will follow that. (But `\LTcapwidth` will be overwritten by `\captionsetup[longtable]{width=<value>}`, even if it is set to a value different than 4in.)

Note: `\captionof` and `\ContinuedFloat` do *not* work for `longtables`. Furthermore neither `\caption` nor `\captionlistentry` will increment the table counter here; it’s incremented by the `longtable` environment instead. If you need a `longtable` which does not increment the table counter please use the `longtable*` environment (offered by the `ltxcaption` package which is part of l’extension caption bundle and will be loaded automatically).

6.9 picinpar

Similar to the `floatflt` package the `picinpar` package[14] offers figures and tables which do not span the full width of a page and are float around by text. For a detailed discussion about the differences between these packages please take a look at The L^AT_EX Companion[1].

If you want to setup special options for the `figwindow` and `tabwindow` environments you can use

```
\captionsetup[figwindow]{<options>} and
\captionsetup[tabwindow]{<options>} .
```

These options will be executed additionally to the regular ones for `figure` or `table`.

Note: The margin resp. width setting will not be used for these figures and tables, unless you set it explicit with `\captionsetup[figwindow]{...}` or `\captionsetup[figtable]{...}`.

6.10 picins

Similar to the `floatflt` and `picinpar` package the `picins` package[15] offers figures and tables which do not span the full width of a page and are float around by text. For a detailed discussion about the differences between these packages please take a look at The L^AT_EX Companion[1].

If you want to setup special options for the `parpic` environment you can use

```
\captionsetup[parpic]{<options>} .
```

These options will be executed additionally to the regular ones for `figure` or `table`.

Furthermore `\piccaption[...]` produce no entry in the List of Figures, and `\piccaption*{...}` gives an unlabeled & unnumbered caption.

Note: The margin resp. width setting will not be used for these figures and tables. But you can override this by setting it explicit with `\captionsetup[parpic]{...}`.

If you want to have a `\piccaption` of another type as `figure`, please do *not* re-define `\@cap-type` as suggested by the `picins` documentation. Please use the `\piccaptiontype{<type>}` command which is offered by l’extension caption instead, e.g. :

```
\piccaptiontype{table}
\piccaption{An example table}
\parpic(50mm,10mm)[s]{...}
```

6.11 rotating

The rotating package[16] offers the floating environments `sidewaysfigure` and `sidewaystable` which are just like normal figures and tables but rotated by 90 resp. 270 degree. Furthermore a command `\rotcaption` is offered for rotated captions only.

The command `\rotcaption` will be extended by l’extension `caption`, so `\rotcaption*` and `\rotcaptionof` can be used analogous to `\caption*` and `\captionof`.

6.12 setspace

The `setspace` package[17] offers options and commands to change the spacing, e.g. `\usepackage[onehalfspacing]{setspace}` causes the document to be typeset in one-and-a-half spacing.

If the `setspace` package is used in conjunction with l’extension `caption`, the caption will be typeset with single spacing as default. This can be changed by specifying either `font=onehalfspacing`, `font=doublespacing`, or `font={stretch=<amount>}`. (See also [section 2.3: Fonts](#))

6.13 sidecap

The `sidecap` package[18] offers the floating environments `SCfigure` and `SCtable` which are like usual figures and tables but the caption will be put *beside* the contents.

If you want to setup special options for the `SCfigure` and `SCtable` environments you can use

```
\captionsetup[SCfigure]{<options>} and
\captionsetup[SCtable]{<options>}
```

These options will be executed additionally to the regular ones for `figure` or `table`.

Note: The `sidecap` package offers its own options for justification. If set, they will override the one specified with the `caption` option `justification=` for captions beside their contents.

Note: The `margin` resp. `width` setting will not be used for these figures and tables, unless you set it explicit with `\captionsetup[SCfigure]{...}` or `\captionsetup[SCtable]{...}`.

(Instead of using the `sidecap` package you can also use the more powerful and flexible `floatrow` package[8] for typesetting captions beside the contents.)

Undocumented features

The `sidecap` package v1.6 has some undocumented package options and commands which allow further customization of the side-captions :

`margincaption`

The package option

```
margincaption (e.g. \usepackage[margincaption]{sidecap})
```

causes all side-captions to be placed into the margin.

`\sidecaptionvpos`

The command

```
\sidecaptionvpos{<float type>}{<pos>}
```

sets the vertical position of the side-caption. `<pos>` can be either ‘t’ (for top alignment), ‘b’ (for bottom alignment), or ‘c’ (for center alignment). The default setting for `table` is ‘t’, for `figure` and all other ones defined with `\DeclareFloatingEnvironment` it’s ‘b’.

6.14 subfigure

The subfigure package[19] provides support for small or ‘sub’ figures and tables within a single figure or table environment. This package is obsolete, new users should use subfig instead.

Since the subfigure package is obsolete it will only be supported in a way that old documents (which have used l’extension caption v1.x during development) should still compile as expected.

Please use the subfig or subcaption package instead which both supports l’extension caption v3.x. (See the subfig package[20] documentation for details.)

6.15 supertabular and xtab

The supertabular[21] and xtab[24] packages offer an environment which can span multiple pages and is quite similar to the longtable environment provided by the longtable package[13]. For a detailed discussion about the differences between these powerful packages please take a look at The L^AT_EX Companion[1].

If you want to setup special options for the supertabular resp. xtabular environment you can use

```
\captionsetup[supertabular]{\langle options \rangle}   resp.  
\captionsetup[xtabular]{\langle options \rangle}     .
```

These options will be executed additionally to the regular ones for table.

Note: \ContinuedFloat does not work for supertabulars and xtabulars.

6.16 threeparttable

The threeparttable package[22] provides a scheme for tables that have a structured note section after the table contents and the caption. This scheme provides an answer to the old problem of putting footnotes in tables—by making footnotes entirely unnecessary.

If you want to setup special options for the threeparttable and measuredfigure environments you can use

```
\captionsetup[threeparttable]{\langle options \rangle}   and  
\captionsetup[measuredfigure]{\langle options \rangle} .
```

These options will be executed additionally to the regular ones for table or figure.

Note: Since the caption will have the same width as the contents here, the margin resp. width setting will not be used for these figures and tables, at least unless you set it explicit with \captionsetup[threeparttable]{...} or \captionsetup[measuredfigure]{...}.

(Instead of using the threeparttable package you can also use the floatrow package[8] for this purpose.)

6.17 wrapfig

Similar to the floatflt, the picinpar, and the picins package the wrapfig package[23] offers figures and tables which do not span the full width of a page and are float around by text. For a detailed discussion about the differences between these packages please take a look at The L^AT_EX Companion[1].

If you want to setup special options for the wrapfigure and wraptable environments you can use


```
\captionsetup[wrapfigure]{<options>} and  
\captionsetup[wraptable]{<options>}
```

These options will be executed additionally to the regular ones for figure or table.

Note: The margin resp. width setting will not be used for these figures and tables, unless you set it explicit with `\captionsetup[wrapfigure]{...}` or `\captionsetup[wrap-table]{...}`.

7 Further reading

I recommend the following documents for further reading :

- The T_EX FAQ – Frequently asked questions about T_EX and L^AT_EX :
<http://faq.tug.org/>
- A French FAQ can be found at
<http://www.grappa.univ-lille3.fr/FAQ-LaTeX/>
- “What is a minimal working example ?” from Christian Faulhammer and Ulrich Schwarz :
<http://www.minimalbeispiel.de/mini-en.html>
- epslatex from Keith Reckdahl contains many tips around including graphics in L^AT_EX 2_ε documents. You will find this document in the directory
<http://mirror.ctan.org/info/epslatex/>

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A Alphabetical Reference

A.1 Options

Option	Short description	Section
<code>aboveskip</code>	sets the skip above caption	2.6
<code>belowskip</code>	sets the skip below caption	2.6
<code>compatibility[†]</code>	force (non-)compatibility	6
<code>figureposition[†]</code>	gives a hint about the figure caption position	2.6
<code>font(+)</code>	sets the font	2.3
<code>format</code>	sets the format	2.1
<code>hangindent</code>	sets the hang indentation	2.4
<code>hypcap</code>	selects ‘hypcap’ feature	6.5
<code>hypcapspace</code>	sets the distance between hyperlink and contents	6.5
<code>indention</code>	sets the indention	2.4
<code>justification</code>	sets the justification	2.2
<code>labelfont(+)</code>	sets the font of the caption label	2.3
<code>labelformat</code>	sets the format of the caption label	2.1
<code>labelsep</code>	sets the label separator	2.1
<code>labelseparator</code>	–same as <code>labelsep</code> –	2.1
<code>list</code>	switches the entries in the List on or off	2.7
<code>listformat</code>	sets the ‘List of Figure/Table’ entry format	2.7
<code>margin</code>	sets the margin	2.4
<code>margin*</code>	sets the margin, but only if no width is set	2.4
<code>maxmargin</code>	sets the max. margin	2.4
<code>minmargin</code>	sets the min. margin	2.4
<code>name</code>	sets the name of the current environment	2.8
<code>oneside</code>	selects the one-side mode	2.4
<code>options</code>	executes the given option list	
<code>parindent</code>	sets the paragraph indention	2.4
<code>parskip</code>	sets the skip between paragraphs	2.4
<code>position</code>	gives a hint about the caption position	2.6
<code>singlelinecheck</code>	switches the single-line-check on or off	2.2
<code>skip</code>	sets the skip between content and caption	2.6
<code>strut</code>	switches the usage of <code>\struts</code> on or off	2.1
<code>style</code>	sets the caption style	2.5
<code>subtype</code>	sets the sub-caption type	– 11
<code>tableposition[†]</code>	gives a hint about the table caption position	2.6
<code>textfont(+)</code>	sets the font of the caption text	2.3
<code>textformat</code>	sets the format of the caption text	2.1
<code>twoside</code>	selects the two-side mode	2.4
<code>type</code>	sets the caption type & places a hyperlink anchor	2.9
<code>type*</code>	sets the caption type only	2.9
<code>width</code>	sets a fixed caption width	2.4

Note: Obsolete options are not listed here. See [section C.1: *caption v1.x*](#) and [section C.2: *caption2 v2.x*](#) for a list of these options.

A.2 Commands

Command	Section
<code>\abovecaptionskip</code>	2.6
<code>\belowcaptionskip</code>	2.6
<code>\caption</code>	3.1
<code>\caption*</code>	3.1
<code>\captionlistentry</code>	3.1
<code>\captionof</code>	3.1
<code>\captionof*</code>	3.1
<code>\captionsetup</code>	3.2
<code>\captionsetup*</code>	3.2
<code>\centerfirst</code>	2.2
<code>\centerlast</code>	2.2
<code>\clearcaptionsetup</code>	3.2
<code>\clearcaptionsetup*</code>	3.2
<code>\ContinuedFloat</code>	3.3
<code>\DeclareCaptionFont</code>	4
<code>\DeclareCaptionFormat</code>	4
<code>\DeclareCaptionFormat*</code>	4
<code>\DeclareCaptionJustification</code>	4
<code>\DeclareCaptionLabelFormat</code>	4
<code>\DeclareCaptionLabelSeparator</code>	4
<code>\DeclareCaptionLabelSeparator*</code>	4
<code>\DeclareCaptionListFormat</code>	4
<code>\DeclareCaptionOption</code>	4
<code>\DeclareCaptionStyle</code>	4
<code>\DeclareCaptionSubType</code>	— 12
<code>\DeclareCaptionTextFormat</code>	4
<code>\showcaptionsetup</code>	3.2

†. These options are only available in the preamble of the document.

11. The option `subtype` is explained in the `subcaption` package documentation.

12. `\DeclareCaptionSubType` is explained in the `subcaption` package documentation.

A.3 Warnings

`\caption` outside box or environment.

– or –

`\captionsetup{type=...}` outside box or environment.

– or –

`\captionsetup{type*=...}` or `\captionof` outside box or environment.

You have placed a `\caption`, `\captionof`, or `\captionsetup{type=<type>}` command outside an box, group, or environment. You should not do this since it could cause some bad side-effects.

(See [section 2.9: Types](#) and [section 3.1: Typesetting captions](#))

`\caption` will not be redefined since it's already redefined by a document class or package which is unknown to the `caption` package.

If l'extension `caption` detects that some (unknown) document class or package has enhanced `\caption`, it will not redefine `\caption`, too, since this would simply kill the enhancement. As a result some features, like `\caption*`, `\ContinuedFloat`, using the optional argument of `\captionsetup`, or the options `list=` and `hycap=` will not be available.

If you don't care about the original enhancements but would like to use the full range of features of l'extension `caption` instead you can give the unsupported(!) option `compatibility=false` a try and keep your fingers crossed. (But you will get the next warning instead.)

(See [section 5: Document classes & Babel support](#) and [section 6: Package support](#))

Forced redefinition of `\caption` since the unsupported(!) package option '`compatibility=false`' was given.

Since you were so keen to specify the option `compatibility=false` l'extension `caption` will try to do its best to fulfill your wishes. But depending on the document class or other packages you use that can end in non-functional features or even errors. So keep your fingers crossed!

(See [section 6: Package support](#))

Hyperref support is turned off because `hyperref` has stopped early.

If the `hyperref` package stops early during loading (because of what-ever reason), the `hyperref` support of l'extension `caption` will not be available. As a result you could get `hyperref` warnings and non-functional hyperlinks to figures or tables.

(See [section 6.5: hyperref](#))

Ignoring optional argument [*pos*] of `\setcapwidth`.

L'extension `caption` tries to emulate the KOMA-Script commands regarding captions as best as it can. But the optional argument of the KOMA-Script command `\setcapwidth` is not (yet) working if you use this package, so if you try to use it anyway, you will get this warning.

(See [section 5.4: KOMA-Script: scrartcl, scrreprt, and scrbook](#))

Internal Warning: *<warning message>*.

You should never see this warning, either you use a package which redefines `figure` or `table` and which is unknown to `l'extension caption`, or this is a bug in `l'extension caption`. Please send me an e-mail reporting this issue.

`\label` without proper `\caption`

Regarding `\label` the floating environments behave differently than its non-floating counterparts : The internal reference will not be generated at the beginning of the environment, but at `\caption` instead. So you have to place the `\label` command either just *after* or *inside* the caption text (mandatory argument of `\caption`).

Option '*<option>*' was not in list '*<option list>*' .

If you try to remove a specific option of an option list, for example with `\clearcaptionsetup[position]{table}`, and this option can not be found inside the option list, you will get this warning. If this is not because of a typo and you would like to suppress this warning, use `\clearcaptionsetup*` instead of `\clearcaptionsetup`.

(See [section 3.2: Setting options](#))

Option list '*<option list>*' undefined.

If you try to remove a specific option of an option list, for example with `\clearcaptionsetup[format]{figure}`, and this option list is not defined (yet), you will get this warning. If this is not because of a typo and you would like to suppress this warning, use `\clearcaptionsetup*` instead of `\clearcaptionsetup`.

(See [section 3.2: Setting options](#))

Obsolete option '*ignoreLTcapwidth*' ignored.

The `caption2` package option `ignoreLTcapwidth` will not be emulated by this version of `l'extension caption`, usually you can simply wipe it away.

(See [section C.2: caption2 v2.x](#) and [section 6.8: longtable](#))

'*ragged2e*' support has been changed. Rerun to get captions right.

The `ragged2e` package will only be loaded by `l'extension caption` if it is actually needed. At least two \LaTeX runs are needed for that, so on the first run you could get this warning. Just compile your document again and this warning should go away.

(See [section 2.2: Justification](#))

Reference on page *<page no.>* undefined.

If you use a `twoside` page layout, `l'extension caption` needs to track the page numbers to get the margins right. At least two \LaTeX runs are needed for that, on the first run you could get this warning. Just compile your document again and this warning should go away.

(See [section 2.4: Margins and further paragraph options](#))

The caption type was already set to `'⟨type⟩'`.

This warning informs you about mixed caption options. For example if you use a `\captionsetup{type=table}` or `\captionof{table}{...}` inside a figure environment, this would result in using both option sets for that specific caption, the one for figure (specified with `\captionsetup[figure]{...}`) and the one for table (specified with `\captionsetup[table]{...}`) as well.

(You can suppress this warning by using the starred form `\captionsetup*{type=...}`.)

(See [section 3.2: Setting options](#))

The option `'hypcap=true'` will be ignored for this particular `\caption`.

L^{extension} caption hasn't found a proper hyperlink anchor for this particular caption, so it decides to ignore the setting `hypcap=true` (which is set by default). As a result a link to this caption (e.g. in the List of Figures, or set by `\ref` or `\autoref`) will link you to the caption of the figure or table, not to the figure or table itself.

This can happen if you use `\captionof` inside a non-floating environment, but also if you use some package which redefines `figure` or `table`, and which is unknown to L^{extension} caption.

If this is ok for you but you want to suppress this warning, simply place a `\captionsetup{hypcap=false}` just before the `\caption` or `\captionof` command which is causing the warning. If this is not ok for you, you can set a hyperlink anchor with `\captionsetup{type=⟨float type⟩}` for yourself.

(See [section 6.5: hyperref](#))

Unsupported document class (or package) detected, usage of the caption package is not recommended.

Either the document class you use is unknown to L^{extension} caption, or you have included a package in your document which redefines `\@makecaption` (which is responsible for type-setting the caption internally) as well. This means L^{extension} caption will either change the design of captions in an unwanted way, or it even refuses to work correctly at all.

(See [section 5: Document classes & Babel support](#) and [section 6: Package support](#))

Unused `\captionsetup[⟨type⟩]`.

You have specified options with `\captionsetup[⟨type⟩]` which are not used later on. This can be because of a typo in `⟨type⟩`, or because you use a package which redefines `figure` or `table` and which is unknown to L^{extension} caption, or simply because you don't have any usage of the environment `⟨type⟩` after this line. (If you want to suppress this warning you can use `\captionsetup*` instead of `\captionsetup`.)

(See [section 3.2: Setting options](#))

Usage of the `⟨package⟩` package together with the caption package is strongly not recommended. Instead of loading the `⟨package⟩` package you should use the caption package option `'tableposition=top'`.

The package `⟨package⟩` is dealing with caption skips as well. Please decide which one do you actually want to use, L^{extension} caption or the other one, using both can lead to wrong skips above or below the caption.

(See [section 2.6: Skips](#))

A.4 Errors

Argument of `\@caption` has an extra `}`.

– or –

Paragraph ended before `\@caption` was complete.

If you want to typeset something special (like a tabular) as caption, you need to give an optional argument to `\caption` resp. `\captionof` for the List of Figures resp. List of Tables, too, even if you don't use such list.

(See [section 3.1: Typesetting captions](#), [section 2.7: Lists](#), and [section 6.5: hyperref](#))

`\caption` outside float.

You have placed a `\caption` command outside a floating environment, or a `longtable` or `wrapfigure`. If this is what you want to, please use either `\captionsetup{type=<type>}` + `\caption` or `\captionof`.

(See [section 3.1: Typesetting captions](#))

`\ContinuedFloat` outside float.

You have placed a `\ContinuedFloat` command outside a floating environment. If this is what you want to, please use the combination `\captionsetup{type=<type>}` + `\ContinuedFloat`.

Please note that `\ContinuedFloat` inside a `longtable` is not working, but maybe using the `longtable*` environment, which typesets a `longtable` without incrementing the table counter, if sufficient for you.

(See [section 3.3: Continued floats](#) and [section 6.8: longtable](#))

Continued `'<type>'` after `'<type>'`.

Continued figures or tables are not allowed to be interrupted by a floating environment (or `longtable`) of another type, e.g. a table between a figure and a continued figure.

(See [section 3.3: Continued floats](#))

For a successful cooperation we need at least version

`'<date>'` of package `<package>`, but only version

`'<old-date>'` is available.

L'extension caption does not work with such an outdated package, please update it to a more recent version, at least to the one requested.

Internal Error: `<error message>`.

You should never see this error. Please send me an e-mail reporting this issue.

No float type `'<type>'` defined.

The `<type>` you have specified in `\captionsetup{type=<type>}`, `\captionof{<type>}`, or `\DeclareCaptionSubType` is not defined. `<type>` should be either `'figure'` or `'table'`, or any other floating environment defined with `\DeclareFloatingEnvironment` offered by the `newfloat` package, `\newfloat` offered by the `float` package[6], or `\DeclareNewFloatType` offered by the `floatrow` package[8].

Not allowed in `longtable*` environment.

The usage of `\caption` is not allowed inside the `longtable*` environment. Please use either `\caption*` for a caption without label or use the regular `longtable` environment instead.

Not available in compatibility mode.

The feature required is not supported in compatibility mode. ‘compatibility mode’ means that l’extension caption has detected either an incompatible document class or an incompatible package which also extends the `\caption` command. Leaving the original extension intact, some features of l’extension caption are not supported.

(See [section 6: Package support](#))

Only one `\caption` can be placed in this environment.

Inside the environments offered by the `fltpage` and `sidecap` package only *one* caption can be placed. (This is due implementation design.)

Option clash for package caption.

– but sometimes also –

Missing `\begin{document}`.

L’extension caption has already been loaded by some other L^AT_EX package, so you can’t do that again specifying different options. A candidate causing this could be the `subfig` package; if this is the case, please load l’extension caption *before* the `subfig` package or specify the option `caption=false` while loading the `subfig` package.

(See the `subfig` package[20] documentation)

Paragraph ended before `\caption@makecurrent` was complete.

– or –

Paragraph ended before `\caption@prepareanchor` was complete.

If you want to typeset multi-paragraph captions, you need to give an optional argument to `\caption` resp. `\captionof` for the List of Figures resp. List of Tables, too, even if you don’t use such list.

(See [section 3.1: Typesetting captions](#), [section 2.7: Lists](#), and [section 6.5: hyperref](#))

Something’s wrong--perhaps a missing `\caption` in the last figure or table.

It seems that you have used a `\subcaption` command (or a different one which has typeset a sub-caption) without a corresponding `\caption` command. This is not supported.

The option `\labelsep=<name>` does not work with `\format=hang`.

– or –

The option `\labelsep=<name>` does not work with `\setcaphanging` (which is set by default).

A caption label separator which contains a `\\` command (like `labelsep=newline`) can not be combined with a hanging caption format (like `format=hang`). Please select either another caption label separator (e.g. `labelsep=colon`) or another caption format (e.g. `format=plain`).

(See [section 2.1: Formatting](#) resp. [section 5.4: KOMA-Script : scrartcl, scrreprt, and scrbook](#))

The package option `'caption=false'` is obsolete.
Please pass this option to the `subfig` package instead
and do *not* load the `caption` package anymore.

You have specified the option `caption=false`. This used to be a workaround for not using the whole `caption` package (leaving the caption stuff offered by the document class or other packages intact), but keeping the `subfig` package working. This mechanism is obsolete and not offered anymore, please pass this option to the `subfig` package instead and do not load `l'extension caption` anymore.

(See the `subfig` package^[20] documentation)

Undefined boolean value `'\value'`.

You tried to set a boolean option (like `singlelinecheck=` or `hypcap=`) with an improper value. Only `false`, `no`, `off`, `0` or `true`, `yes`, `on`, `1` is allowed here.

Undefined format `'\name'`.

You tried to set a caption format which does not exists. Maybe a typo!?

(See [section 2.1: Formatting](#))

Undefined label format `'\name'`.

You tried to set a caption label format which does not exists. Maybe a typo!?

(See [section 2.1: Formatting](#))

Undefined label separator `'\name'`.

You tried to set a caption label separator which does not exists. Maybe a typo!?

(See [section 2.1: Formatting](#))

Undefined list format `'\name'`.

You tried to set a caption list-of format which does not exists. Maybe a typo!?

(See [section 2.7: Lists](#))

Undefined position `'\name'`.

You tried to set a caption position with an improper value. Maybe a typo!?

(See [section 2.6: Skips](#))

Undefined style `'\name'`.

You tried to set a caption style which does not exists. Maybe a typo!?

(See [section 2.5: Styles](#))

Usage of the `'position'` option is incompatible
to the `'\package'` package.

The given package is dealing with caption skips as well. Please decide which one do you actually want to use : The `position=` option of `l'extension caption` or the mechanism of the other one; using both this way would lead to wrong skips above or below the caption and is therefore not supported.

(See [section 2.6: Skips](#))

Undefined text format '*name*'.

You tried to set a caption text format which does not exist. Maybe a typo!?

(See [section 2.1: *Formatting*](#))

You can't use both, the (obsolete) `caption2` *and*
the (current) `caption` package.

This error message says it all, you simply can't do that. Please use only the extension `caption`.

(See [section C.2: *caption2 v2.x*](#))

B Version history

The version 1.0 was written in 1994 and was offering a handful of options to customize the look & feel of the captions. Furthermore this version already supported the rotating and subfigure packages. Version 1.1 introduced the `centerlast` option; version 1.2 added the support of the float package. Version 1.3 offered a better support of the subfigure package, while version 1.4 came with the new option `nooneline`.

The `caption2` package 2.0 was an experimental side-version of the regular `caption` package. It was made public as beta test version without proper documentation in 1995 because of the strong demand for new features and adaptations to additional packages like the `longtable` package. Furthermore it offered a revised support of the subfigure package. (An improved version 2.1 was offered in 2002.)

In 2003 I finally found some time, so a new regular release 3.0 of the `caption` package could be build in cooperation with Frank Mittelbach and Steven Cochran. It was released in December 2003 and superseded the neglected `caption2` package. Main parts were re-written and it provided a complete re-work of the user interface. Furthermore it supported the `hyperref`, `hypcap`, `listings`, `sidecap`, and `supertabular` packages additionally.

While all the previous versions were designed for usage with the standard \LaTeX document classes `article`, `report`, and `book`, the current version 3.1 released in 2007 also supports the $\mathcal{A}\mathcal{M}\mathcal{S}$, KOMA-Script, NTG, and SMF document classes, and the `beamer` class as well. Furthermore it was adapted to the `frenchb` Babel option, the `frenchle` & `frenchpro` packages, and the `floatflt`, `fltpage`, `picinpar`, `picins`, `setspace`, `threeparttable`, and `wrapfig` packages. New options and commands were introduced as well, among other things `font+`, `figurewithin` & `tablewithin`, `list` & `list-format`, `maxmargin` & `minmargin`, `\captionlistentry`, `\DeclareCaptionListFormat`. Further benefits are the new compatibility check (see [section 6: Package support](#)), the new “`hypcap`” feature (see [section 6.5: hyperref](#)), and the sub-caption feature (see `subcaption` package documentation).

C Compatibility to older versions

C.1 caption v1.x

This version of l’extension caption still supports the old options and commands provided by the version 1.0 to 1.4 of this package. So there shouldn’t occur any problems compiling old documents, but please don’t mix old options and commands with the new ones. This isn’t supported and can cause ugly side effects.

Here comes a short oversight of the obsolete options and how they have been replaced within this version of l’extension caption :

caption v1.x	caption v3.x
normal	format=plain
hang	format=hang
isu	format=hang
center	justification=centering
centerlast	justification=centerlast
nooneline	singlelinecheck=off
scriptsize	font=scriptsize
footnotesize	font=footnotesize
small	font=small
normalsize	font=normalsize
large	font=large
Large	font=Large
up	labelfont=up
it	labelfont=it
sl	labelfont=sl
sc	labelfont=sc
md	labelfont=md
bf	labelfont=bf
rm	labelfont=rm
sf	labelfont=sf
tt	labelfont=tt

Beside the options for setting up the desired font there were also the commands `\caption-size` resp. `\captionfont` and `\captionlabelfont` who could be redefined with `\renewcommand` and allowed an alternate and more flexible way to change the font used for captions. This mechanism was replaced by the commands

```
\DeclareCaptionFont{...}{...}    and  
\captionsetup{font=...,labelfont=...} .
```

(See [section 4: Own enhancements](#))

Setting the margin for captions was done in v1.x with

```
\setlength{\captionmargin}{...} .
```

This was replaced by

```
\captionsetup{margin=...} .
```

(See [section 2.4: Margins and further paragraph options](#))

For example the old-style code

```

\usepackage[hang,bf]{caption}
\renewcommand\captionfont{\small\sffamily}
\setlength\captionmargin{10pt}

```

will still work fine, but should be written today as

```

\usepackage[format=hang,labelfont=bf,font={small,sf},
margin=10pt]{caption}

```

or

```

\usepackage{caption}
\captionsetup{format=hang,labelfont=bf,font={small,sf},
margin=10pt}

```

The quite exotic option `ruled` which allowed a partial usage of the caption settings for ruled floats defined with the `float` package will be emulated by this version of the caption package, too. But using this option is not recommended anymore since this version of l'extension caption offers a more flexible way for changing the captions of these floating environments :

```

\DeclareCaptionStyle{ruled}{...}

```

resp.

```

\captionsetup[ruled]{...}

```

(See [section 4: Own enhancements](#), [section 3.2: Setting options](#), and [section 6.2: float](#))

C.2 caption2 v2.x

Although they do very similar stuff, the packages `caption` and its experimental and now obsolete variant `caption2` have a very different implementation design. Therefore a full compatibility could not be offered. For that reason you will still find a file called `caption2.sty` in this package distribution, so old documents using the `caption2` package will still compile fine.

Newly created documents should use the actual version of l'extension `caption` instead. In most cases it's sufficient to replace the command

```

\usepackage[...]{caption2}

```

by

```

\usepackage[...]{caption}

```

But some options and commands will not be emulated, so you can get error messages afterwards. This section will hopefully help you removing these errors. If you have problems migrating from `caption2` to `caption` please don't hesitate to send me an e-mail asking for help.

In addition to the obsolete options shown in the last section these ones will be emulated, too :

caption2 v2.x	caption v3.x
<code>flushleft</code>	<code>justification=raggedright</code>
<code>flushright</code>	<code>justification=raggedleft</code>
<code>oneline</code>	<code>singlelinecheck=on</code>

Setting the margin for captions was done in v2.x with

```

\setcaptionmargin{...} resp. \setcaptionwidth{...}

```

This was replaced by

```

\captionsetup{margin=...} resp. \captionsetup{width=...}

```

(See [section 2.4: Margins and further paragraph options](#))

Setting an indentation was done in v2.x with

```

\captionstyle{indent}
\setlength\captionindent{...}

```

This is now done with

```
\captionsetup{format=plain,indentation=...} .
```

The so-called single-line-check was controlled by the commands `\onelinecaptionsfalse` (for switching the check off) and `\onelinecaptionstrue` (for switching the check on). This was replaced by `\captionsetup{singlelinecheck=off}` resp. `\captionsetup{singlelinecheck=on}` . (See [section 2.2: Justification](#))

The commands

```
\captionlabeldelim, \captionlabelsep, \captionstyle,  
\defcaptionstyle, \newcaptionstyle, and \renewcaptionstyle
```

do not have a simple replacement and therefore will not be emulated by this version of l’extension caption. (So using them will cause error messages.) Rewriting such code is not always easy and straight-ahead, but by conscientious reading of this manual you should be able to find appropriate options and commands instead.

The `v2.x` option `ignoreLTcapwidth` do not have a replacement, too. But in most cases you can simply drop using that option because in this version of l’extension caption the value of `\LTcapwidth` will be ignored anyway (unless you set it to a different value than the default one which is 4in). (See [section 6.8: longtable](#))

C.3 caption v3.0

L’extension caption v3.0 did not support any document classes other than the standard L^AT_EX ones : article, report, and book. Therefore the default settings used to be fixed, but now l’extension caption supports more classes, therefore they are now set in dependence on the document class used.

For example : While in v3.0 the default caption justification used to be always justified, it’s now still justified when using one of the standard document classes, but `raggedright` will be used as default format when used with the beamer document class.

An easy way to select the ‘old’ defaults is using the option `style=base` when loading l’extension caption (or later on using `\captionsetup`).

Another new feature is the automatic check for compatibility ; if an incompatibility will be found, a warning message will be issued and if a strong incompatibility was found some features of l’extension caption will be disabled. Please note that only this check was added to l’extension caption, so if you get such warning message, the previous versions of l’extension caption were incompatible as well, but did not issued such warning, they were “only” having side-effects or causing problems. So these warnings only say that some bad side effects or problems could happen, but not that they actually will happen. Anyway, if you use l’extension caption in such circumstances, you should use it with care.

Note: L’extension caption v3.0 offered the option `caption=false`, which used to be a work-around for not using the whole caption package (leaving the caption stuff offered by the document class or other packages intact), but keeping the subfig package[20] working. This mechanism is obsolete and not offered anymore, please pass this option to the subfig package instead and do not load l’extension caption anymore.

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WRAPFIG.STY ver 3.6,
2003/01/31
- [24] Peter Wilson :
The xtab package,
2004/05/24