

Omikhleia's  
classes & packages  
for SILE



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# Chapter 1

## Packages

### 1.1 End-user packages

These are standalone packages users can use in their own documents.

#### 1.1.1 **epigraph**: a lightweight epigraph environment

The **epigraph** package for SILE can be used to typeset a relevant quotation or saying as an epigraph, usually at either the start or end of a section. Various handles are provided to tweak the appearance.<sup>1</sup>

The **epigraph** environment typesets an epigraph using the provided text. An optional source (author, book name, etc.) can also be defined, with the `\source` command in the text block. By default the epigraph is placed at the right hand side of the text block, and the source is typeset at the bottom right of the block.

lorem ipsum dolor sit amet consetetur sadipscing  
elittr sed diam nonumy eirmod tempor invidunt ut la-  
bore et dolore.

*The Lorem Ipsum Book.*

Without source:

lorem ipsum dolor sit amet consetetur sadipscing  
elittr sed diam nonumy eirmod tempor invidunt ut la-  
bore et dolore.

The default width for the epigraph block is **epigraph.width**. A **width** option is also provided to override it on a single epigraph<sup>2</sup>. It may be set to a relative

---

<sup>1</sup> This is very loosely inspired from the LaTeX package by the same name.

<sup>2</sup> Basically, all global settings are also available as command options (or reciprocally!), with the same name but the namespace left out. For the sake of brevity, we will therefore omit the namespace from this point onward.

value, e.g. 80 percents the current line width:

lorem ipsum dolor sit amet consetetur sadipscing elitr sed diam nonumy eirmod tempor invidunt ut labore et dolore.

Or, pretty obviously, with a fixed value, e.g. **8cm**.

lorem ipsum dolor sit amet consetetur sadipscing elitr sed diam nonumy eirmod tempor invidunt ut labore et dolore.

The vertical skips are controlled by **beforekipamount**, **afterkipamount**, **sourceskipamount**. The latter is only applied if there is a source specified and the epigraph doesn't show a rule (see further below).

In the following example, the two first options are set to **0.5cm** and the source skip is set to **0**.

lorem ipsum dolor sit amet consetetur sadipscing  
elitr sed diam nonumy eirmod tempor invidunt ut labore et dolore.

*The Lorem Ipsum Book.*

By default, paragraph indentation is inherited from the document. It can be tuned with **parindent**, e.g. **1em**.

lorem ipsum dolor sit amet consetetur sadipscing  
elitr sed diam nonumy eirmod tempor invidunt ut labore et dolore.

lorem ipsum dolor sit amet consetetur sadipscing  
elitr sed diam nonumy eirmod tempor invidunt ut labore et dolore.

A rule may be shown below the epigraph text (and above the source, if present — in that case, the vertical source skip amount does not apply). Its thickness is controlled with **rule** being set to a non-null value, e.g. **0.4pt**.

lorem ipsum dolor sit amet consetetur sadipscing  
elitr sed diam nonumy eirmod tempor invidunt ut labore et dolore.

---

*The Lorem Ipsum Book.*

Likewise, without source:

lorem ipsum dolor sit amet consetetur sadipscing  
elittr sed diam nonumy eirmod tempor invidunt ut la-  
bore et dolore.

---

By default, the epigraph text is justified. This may be changed setting **ragged** to **true**.

The text is then ragged on the opposite side to the epigraph block, so on the left for a right-aligned block.

lorem ipsum dolor sit amet consetetur sadipscing  
elittr sed diam nonumy eirmod tempor invidunt ut  
labore et dolore.

*The Lorem Ipsum Book.*

It would be ragged on the right for a left-aligned epigraph block.

lorem ipsum dolor sit amet consetetur sadipscing  
elittr sed diam nonumy eirmod tempor invidunt ut  
labore et dolore.

*The Lorem Ipsum Book.*

Here, we introduced the **align** option, set to **left**. All the settings previously mentioned also apply to left-aligned epigraphs, so we can of course tweak them at convenience.

lorem ipsum dolor sit amet consetetur  
sadipscing elittr sed diam nonumy eirmod  
tempor invidunt ut labore et dolore.

---

*The Lorem Ipsum Book.*

It is also possible to offset the epigraph from the side (left or right) it is attached to, with the **margin** option, e.g. **0.5cm**:

lorem ipsum dolor sit amet consetetur sadipscing  
elittr sed diam nonumy eirmod tempor invidunt ut la-  
bore et dolore.

---

*The Lorem Ipsum Book.*

If you want to specify what styling the epigraph environment should use, you can redefine the **epigraph:style** style. By default it will be the same as the sur-

rounding document, just smaller. The epigraph source is typeset in italic by default. It can be modified too, by redefining **epigraph:source:style**.<sup>3</sup>

*lorem ipsum dolor sit amet consetetur sadip-  
scing elitr sed diam nonumy eirmod tempor invi-  
dunt ut labore et dolore.*

The Lorem Ipsum Book.

As final notes, the epigraph source is intended to be short by nature, therefore no specific effort has been made to correctly handle sources longer than the epigraph block or even spanning on multiple lines.

Before anyone asks, the alignment options for an epigraph are to the left or to the right of the frame only; notably, there is no intention to support centering. This author does not think centered epigraphs are typographically sound.

For the curious-minded, it turns out that nested epigraphs do work somewhat as intended. Your mileage may vary depending on the combination of settings. This is not expected to be a highly requested feature and has not been thoroughly tested.

lorem ipsum dolor sit amet consetetur sadipscing elitr sed diam no-  
numy eirmod tempor invidunt ut labore et dolore.

Words — so innocent and powerless as they are, as stand-  
ing in a dictionary, how potent for good and evil they become  
in the hands of one who knows how to combine them.

*Nathaniel Hawthorne*

lorem ipsum dolor sit amet consetetur sadipscing elitr sed diam no-  
numy eirmod tempor invidunt ut labore et dolore.

---

*The Lorem Ipsum Book.*

### 1.1.2 **textsubsuper**: native superscripts & subscripts

The **textsubsuper** package provides two commands, `\textsuperscript{⟨content⟩}` and `\textsubscript{⟨content⟩}`.

They will use the native superscript or subscript characters, respectively, in a font, when available, instead of scaling, raising or lowering characters, because most of the time the former will obviously look much better.

---

<sup>3</sup> Refer to our **styles** package for details on how to set and configure style specifications.



As of superscripts, that could for a number (e.g. in footnote calls), but also for letters (e.g. in century references in French, *iv<sup>e</sup>*; or likewise in sequences in English, 12<sup>th</sup>).

As of subscripts, the most familiar example is in chemical formulas, for example  $\text{H}_2\text{O}$  or  $\text{C}_6\text{H}_{12}\text{O}_6$ .

These commands do so by trying the **+sup** font feature for superscripts, and the **+subs** or **+sinf** feature for subscripts.

If the output is not different than *without* the feature, it implies that this Open-Type feature is not supported by the font (such as the default Gentium Plus font, that does not have these font features<sup>4</sup>): Scaling and raising or lowering is then applied.

By nature, this package is *not* intended to work with multiple levels of super- or subscripts. Also note that it tries not to mix up characters supporting the features with those not supporting them, as it would be somewhat ugly in most cases, so the scaling methods will be applied if such a case occurs.

### 1.1.3 **abbr**: a few shorthands & abbreviations

This package defines a few shorthands and abbreviations that its author often uses in articles or book chapters.

The **\abbr:nbsp** command inserts a non-breakable space. It is stretchable and shrinkable as a normal inter-word space by default, unless setting the **fixed** option to true.

The **\abbr:no:fr** and **\abbr:no:en** commands prepend a correctly typeset issue number, for French and English respectively, that is n° 5 and no. 5.

The **\abbr:nos:fr** and **\abbr:nos:en** commands are the same as the previous commands, but for the plural, as in n<sup>os</sup> 5–6 and nos. 5–6.

The **\abbr:no** and **\abbr:nos** invoke the appropriate command depending on the current language, nos. 12, 13.

The **\abbr:vol** acts similarly for volume references, that is vol. 4, just ensuring the space in between is unbreakable.

The **\abbr:page** does the same for page references, as in p. 159, but also supports one of the following boolean options: **sq**, **sqq** and **suiv**, to indicate subsequent page(s) in the usual manner in English or French, as in p. 159 *sq.*, p. 159 *sqq.* or p. 159 *et suiv.* Note that in these cases, a period is automatically added.

The **\abbr:siecle** command formats a century according to the French typographic rules, as in *i<sup>er</sup>* or *iv<sup>e</sup>*, *xv<sup>e</sup>* and *xix<sup>e</sup>*.

---

<sup>4</sup> Though it does include, however, some of the Unicode super- and subscript characters, but this very package does not try to address such a case.

### 1.1.4 couyards: printer’s ornaments

Typographers of the past relied on a number of ornaments to make their books look nicer.

A *cul-de-lampe* (plural *culs-de-lampe*) is a typographic ornament, sometimes called a *pendant*, marking the end of a section of text. The term comes from French, for “bottom of the lamp” (from the usual shape of the ornament). In French typography, they are also called *couillards* or *couyards* (apparently named, erm... after a body part, really). It may be a single illustration or assembled from fleurons.

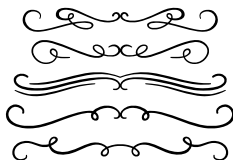
A *fleuron* is a typographic element or glyph, used either as a punctuation mark or as an ornament for typographic compositions. Fleurons, hence the name, which also derives from French, are usually stylized forms of flowers or leaves. The Unicode standard defines several such glyphs, as 🌹 (U+2766, floral heart) and rotated versions of it, 🌻 (U+2767) and 🌼 (U+2619). Unicode version 7 even defines many more glyphs of that type.

In typography, these glyphs are also generically called *dingbats* or, when used as a section divider, a *dinkus*. One usual glyph used in the latter case is the *asterism*, \*\* (U+2042).

Whether fonts support these glyphs and how they render them is another topic. (For instance, here above, we had to switch to the Symbola font for the so-called floral hearts.)

This author, however, wanted a bit more variety with some old-fashioned ornaments independent from the selected font. The present **couyards** package therefore defines a few such ornaments<sup>5</sup>, with the command `\couyard[type=<n>]`, where *n* is a number between 1 and 9.

Without any other option, the ornaments have a fixed height which can be overridden with the **height=<length>** option, the default being 0.9em (also corresponding to **height=default**). Showing only the first seven:

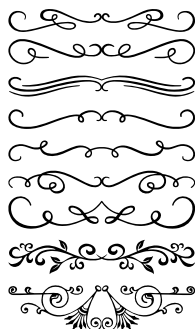



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<sup>5</sup> The first seven were converted to SVG from designs by Tartila <[https://fr.freepik.com/vecteurs-libre/diviseurs-fleurs-calligraphiques\\_10837974.htm](https://fr.freepik.com/vecteurs-libre/diviseurs-fleurs-calligraphiques_10837974.htm)>, free for personal and commercial usage with proper attribution. Number 8 and 9 are public domain (CC0), from <<https://freesvg.org>>, and look better at fixed width rather than height. There are hundreds of similar designs there and this author does not intend to have more than what he requires. The last two were actually added on a second thought only.



Alternately, one can set a width with the **width**=*<length>* option, either to some length value or to **default** (7em).



These two options are exclusive, so as to keep a proper aspect ratio.

### 1.1.5 colophon: a shaped & decorated paragraph

Quoting Wikipedia, a colophon (/ˈkɒləfən/) is a brief statement containing information about the publication of a book such as the place of publication, the publisher, and the date of publication. Colophons are usually printed at the ends of books. The term colophon derives from the Late Latin *colophōn*, from the Greek *κολοφών* (meaning “summit” or “finishing touch”). The existence of colophons can be dated back to antiquity.

It is quite common for colophons to be surrounded by some sort of ornament. While regular paragraphs are composed of square-shaped blocks, colophons may take various fancy shapes. This is where the **colophon** package may come into action. As one could have guessed by its name, it provides a `\colophon` command that attempts shaping a paragraph into a circle, which radius is *automatically* computed so that the text fills the circle.

Typesetting text in a circle, however, can be tough. The first and last lines do not have much place to play with. Even with hyphenation, one is no guaranteed that the text can be broken at appropriate places and will not overflow. And one cannot be sure, either, that the very last line, by nature incomplete, can fit well in that circle. No need to say, it works better with a decently long text. Shaping a small sentence into a circle is likely to yield poor results. This type of colophon might not be appropriate for short statements.

In other terms, there are many reasons why it may go wrong and one should have a basic understanding on how this package works, as there are several wild assumptions.

The current implementation, to avoid multiple passes, just tries to estimate the area the content would have taken if set all on a single line. This is our first assumption: we are inherently dealing with *lines of text*, shaping the paragraph at the line-breaking algorithm level and therefore assuming the line height to be reasonably constant. So do not expect miracles if your content contains other things than text or font changes, etc. that could affect the line spacing. Actually, if you want to typeset a colophon in a given font, we even recommend wrapping the font change command around the colophon, rather than inside.

Based on this rough and fragile estimation, we can deduce the radius of a circle that has the same area. But of course, we cannot know yet whether the lines will be stretched (or even shrunked, but we cannot hope too much for it with such a shape) when justified into the circle. This is the second assumption: the above estimation is likely too small, as stretching will occur with little doubts. So the implementation adjusts the estimated length by a ratio, with an *arbitrary* value of 1.01 (i.e. we expect the line stretchability to globally reach 1% at most). There will still be cases where the paragraph cannot fit and will overflow outside the circle, so the option **ratio** can be used to manually provide a different value (e.g. 1.015 – the necessary adjustment may be fairly small).

Let's now consider ornaments. We want to show a nice ornamental decoration around the shaped paragraph. Note the singular here. Your content is not expected to span over multiple paragraphs. Well, it can, but the logic for computing and displaying the decoration will fail or, at best, be applied to the last paragraph, each being circles on their own! Thus our third assumption is that the colophon contains only one single paragraph.

To enable a decoration, set the **decoration** option to true. The default ornament (logically called **default**) is just a larger circle, i.e. with an extra amount of space. One can select another ornamental figure by specifying the **figure** option, with a figure name (see below). All of them vary on the amount of space they add around the circle, defined as a scaling ratio applied to the computed base radius. This value, somewhat arbitrary or to the taste of this author, can be overridden with the **figurescale** option set to some decimal number bigger than 1.

The figure is computed after the paragraph is shaped, so as to know the space it actually took. Oh, by the way, the decoration does not expect a page break to occur in a colophon. There are even other assumptions there, but if you read up to this point, you probably got enough words of caution<sup>6</sup>.

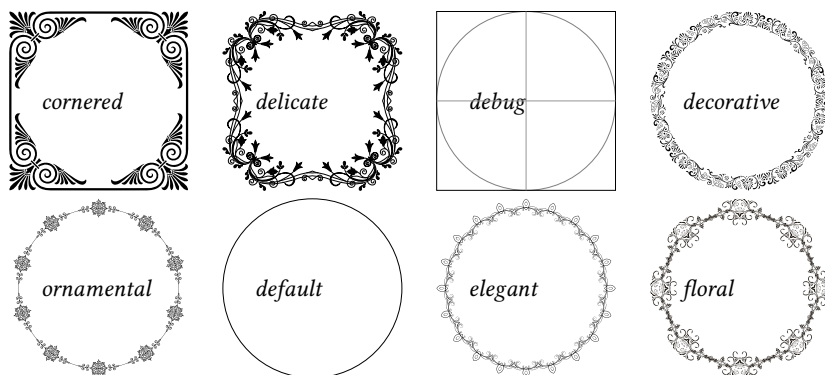
The pre-defined figures<sup>7</sup> are **default**, **debug**, **decorative**, **floral**, **ornamental**,

---

<sup>6</sup> Suggestions and patches are of course welcome.

<sup>7</sup> The nice ones are all in the public domain (CC0), from <<https://freesvg.org>>.

**elegant**, **delicate**, and **cornered**. Most of these names are quite random, so here you are, in random order too:



### 1.1.6 omipoetry: a poetry environment

If this package is called **omipoetry**, it is not only because it belongs to Omikhleia's packages. There are so many ways to compose poetry that one cannot, probably, cover them all. The art of typography is hard, but perhaps the art of poetry typography is even harder.

This package defines a **poetry** environment, which can contain, for now<sup>8</sup>, only two types of elements: verses, each with the `\v` command, and a separator in the form of the `\stanza` command. The latter just inserts a small vertical skip between verses. The former, obviously, contains a single verse, though we will see it comes with a few extras.

First of all, let us illustrate a poem by the French author Victor Hugo, “En hiver la terre pleure...”, using only the above-mentioned commands, without options.

- En hiver la terre pleure ;  
 Le soleil froid, pâle et doux,  
 Vient tard, et part de bonne heure,  
 Ennuyé du rendez-vous.
- 5    Leurs idylles sont moroses.  
       — Soleil ! aimons ! — Essayons.  
       Ô terre, où donc sont tes roses ?  
       — Astre, où donc sont tes rayons ?  
       Il prend un prétexte, grêle,

<sup>8</sup> Other commands will raise an error and any text node is silently ignored. This may change in a future revision.

- 10    Vent, nuage noir ou blanc,  
       Et dit : — C'est la nuit, ma belle ! —  
       Et la fait en s'en allant ;  
       Comme un amant qui retire  
       Chaque jour son cœur du nœud,  
 15    Et, ne sachant plus que dire,  
       S'en va le plus tôt qu'il peut.

As can be seen, verses are automatically numbered, by default. This feature can be disabled with the **numbering** option set to false. The **start** option may also be provided, to define the number of the initial verse, would it be different from one. Quoting *Beowulf*, chapter XI, starting at verse 710:

- 710    Ða com of more            under misthleopum  
       Grendel gongan,        godes yrre bær;  
       mynte se manscaða        manna cynnes  
       sumne besyrwan        in sele þam hean.  
       Wod under wolcnum        to þæs þe he winreced,  
 715    goldsele gumena,        gearwost wisse,  
       fættum fahne.        Ne wæs þæt forma sið  
       þæt he Hroþgares        ham gesohte;  
       næfre he on aldordagum        ær ne siþðan  
       heardran hæle,        healðegnas fand.

When numbering is left enabled, it goes by a **step** of 5 by default. You can set the option by that name to any other value that suits you.<sup>9</sup> The **first** option may also be set to true to enforce the first verse to always be numbered, even if it is not a multiple of the step value. This might be useful if you are quoting just a few verses and none would be numbered normally.

This is all what we have to say about typesetting simple poetry so far, mostly. As an advanced feature, the **poetry** environment also supports a **prosody** option, which increases the height (i.e. baseline skip) of verses so as to leave enough place for metrical or rhythmic annotations, which can then be provided between angle brackets, that is <...><sup>10</sup>. The annotation is placed above the (following) text. In English, typically, a 2-level notation is often used, as shown hereafter.<sup>11</sup>

<sup>9</sup> Before you ask, the large spaces *inside* verses in this example just use the standard **\qqquad** command, so there is nothing special here.

<sup>10</sup> As in the standard **chordmode** package. We actually used the exact same logic.

<sup>11</sup> Arthur Golding, *Ovid's Metamorphoses*, book II, lines 1–2, scansion example from Wikipedia.

$\begin{array}{cccccccccccccccc} x & / & & x & / & x & / & & x & / & & x & / & x & / & x & / \\ \text{The prince} & | & \text{ly pal} & | & \text{ace of} & | & \text{the sun} & || & \text{stood gor} & | & \text{geous to} & | & \text{behold} \\ x & / & & x & / & x & / & & x & / & x & / & x & / & & & \\ \text{On stately pillars} & | & \text{built high} & | & \text{of yellow} & | & \text{burnished} & | & \text{gold} \end{array}$

The x here represents a *nonictus* in metrical scansion or an unstressed syllable in rhythmic scansion, and the slash an *ictus* or a stressed syllable, respectively. In 3-level notations, the scansion tries to be both metrical and rhythmic, with indicators such as a primary stress (/), a secondary stress or *demoted* syllable (\), and an unstressed syllable (x). These terms have varying interpretations depending on the prosodist, but whatever they mean, we just want to check how they would look.<sup>12</sup>

$\begin{array}{cccccccccccccccc} x & / & x & / & & \backslash & / & & \backslash & / & & x & / & & & \\ \text{When Ajax strives,} & & \text{some rock's} & & \text{vast weight} & & \text{to throw,} \\ x & / & & \backslash & / & x & & x & & x & / & & \backslash & / & & \\ \text{The line too labours,} & & \text{and the words} & & \text{move slow;} \end{array}$

In a document in SILE language, remember to type two \, as it is a special character. Notice something else, here, too. Some prosodists are happy with the x, which is easy to type, while others prefer an ×, i.e. a multiplication sign (as Unicode does not include a better glyph for it). Obviously, it works if you directly enter that character between the brackets, but this package also aims at simplifying your efforts: the **mode=times** option will automatically turn the x characters into ×.

Let us check we can use other indicators without issue. In English, rhythmic patterns “arise from the regular repetition of sequences of stressed patterns syllables (S, strong) and untressed syllables (W, weak).”<sup>13</sup> In nursery rhymes, S patterns usually correspond to single syllables that are “peaks” of linguistic stress, W patterns to sequences from zero to three relatively unconstrained syllables without accentual stress, as illustrated below.<sup>14</sup>

<sup>12</sup> Alexander Pope, *Sound and Sense*, verses 9–10, scansion example from Wikipedia.

<sup>13</sup> Mark J. Jones & Rachael-Anne Knight, *The Bloomsbury Companion to Phonetics* A&C Black, 2013, p. 134

<sup>14</sup> Scansion of a popular nursery rhyme in *Change de forme. Biologie et prosodie*, ed. 10/18, 1975, ch. 4, p. 123.

## Packages

S W S W  
 Solomon Grundy  
 S W S W  
 Born on a Monday  
 S W S W  
 Christened on Tuesday  
 S W S W  
 Married on Wednesday  
 W S W S W  
 Took ill-on Thursday  
 S W S W  
 Worse on Friday  
 S W S W  
 Died on Saturday  
 S W S W  
 Buried on Sunday  
 S W S  
 This is the end  
 W S W S W  
 Of Solomon Grundy

For Old English verses, scholars generally use S for stressed patterns, x for unstressed patterns, and sometimes Sr to mark a lift under resolution.<sup>15</sup>

Maldon 32b    x    Sr   x   x   S   x  
                   mid gafole forgyldon  
 Maldon 66b    x   S       x   x   S   x  
                   to lang hit him þuhte.  
 Durham 5b     x    S   x   x   S   x  
                   on floda gemonge.

Other scholars, though, use different notations.<sup>16</sup>

Xa        X        Xa    X  
 Grendles magan gang sceawigan

In Old Greek or Latin metre, you may of course use the macron and breve glyphs directly. Again, to simplify your typesetting, you may prefer using a minus sign (-) for long syllables, a simple u for short syllables and a simple x for *anceps* or the *brevis in longo*. In that case, set the **mode** option to **classical**. The above-

<sup>15</sup> Eric Weiskott, *English Alliterative Verse*, Cambridge University Press, 2016, p. 30; the verses are quoted from Robert D. Fulk, *A History of Old English Meter*, University of Pennsylvania Press, 1992, §303–304.

<sup>16</sup> Scansion of *Beowulf*, v. 1391 in *Change de forme. Biologie et prosodie*, *op. cit.*



mentioned characters will then automatically be replaced by a macron, a breve and the multiplication sign, respectively, as shown in the following example.<sup>17</sup>

Ἄνδρα μοι ἔννεπε, | μοῦσα, πολύτροπον, | ὅς μάλα | πολλὰ  
 πλάγχθη, ἐπεὶ Τροίης ἱερὸν πτολίεθρον ἔπερσεν.  
 πολλῶν | δ' ἀνθρώπων ἴδεν | ἄστεα | καὶ νόον | ἔγνω

The resulting macron and breve signs are lowered by some arbitrary amount as an attempt to make the scansion line more regular visually. One would have hoped for the Unicode standard to define markers that fit right with each other and that would be implemented in good fonts...

This author however finds the macron and breve glyphs a bit too small and thin, so a mode named **experimental** is also proposed, using an en-dash and a small, slightly lowered, half-circle, respectively.

Ἄνδρα μοι ἔννεπε, | μοῦσα, πολύτροπον, | ὅς μάλα | πολλὰ  
 πλάγχθη, ἐπεὶ Τροίης ἱερὸν πτολίεθρον ἔπερσεν.  
 πολλῶν | δ' ἀνθρώπων ἴδεν | ἄστεα | καὶ νόον | ἔγνω

Alternately, the **mixed** mode is a kind of compromise, using an en-dash for the macron, but keeping the (lowered) breve.

Ἄνδρα μοι ἔννεπε, | μοῦσα, πολύτροπον, | ὅς μάλα | πολλὰ  
 πλάγχθη, ἐπεὶ Τροίης ἱερὸν πτολίεθρον ἔπερσεν.  
 πολλῶν | δ' ἀνθρώπων ἴδεν | ἄστεα | καὶ νόον | ἔγνω

This package supports cross-references as defined for instance by the **omirefs** package, if it is loaded by the document class. In the *Beowulf* extract on page 14, Hrothgar was mentioned in verse 717.

### 1.1.7 parbox: paragraphs in an horizontal box

A paragraph box (“parbox”) is an horizontal box (so technically an hbox) that contains, as its name implies, one or more paragraphs (so the displayed content is actually made of vbox'es and vertical glues). The only mandatory option on the

<sup>17</sup> Homer, *The Odyssey*, book I, v. 1–3 (my own scansion).

`\parbox` command is its **width**. Most of the time, the parbox will be higher than a (regular) text line, so the option **valign** allows to specify the vertical alignment: top, middle, bottom. Alignment is relative to the current baseline.

Some important concepts and good stuff are described at the end of this documentation section, but for now let us show a top-aligned parbox.

(1A)

one
lorem ipsum dolor sit amet
consetetur sadipscing elitr
two

And a bottom-aligned parbox.

(1B)

one
lorem ipsum dolor sit amet
consetetur sadipscing elitr
two

Finally, the middle-aligned parbox.

(1C)

one
lorem ipsum dolor sit amet
consetetur sadipscing elitr
two

As can be seen, there are however a few issues, if the parbox is intended to be used (as here) in a regular text flow: the interpretation of “baseline” is pretty strict, but perhaps unexpected; the line boxing is strict too and is affected depending on ascenders or descenders. To get what is logically a more expected output, one would need some vertical adjustment, which comes in the form of a “strut” (see further below). Let us try again, but this time with the **strut** option set to “character” (the default, which was used above, corresponds to “none”).

(2A)

one
lorem ipsum dolor sit amet
consetetur sadipscing elitr
two

(2B)

one
lorem ipsum dolor sit amet
consetetur sadipscing elitr
two

(2C)

one
lorem ipsum dolor sit amet
consetetur sadipscing elitr
two

Or we can set it to “rule”.

- (3A) 

one  
 lorem ipsum dolor sit amet  
 consetetur sadipscing elitr  
 two
- (3B) 

one  
 lorem ipsum dolor sit amet  
 consetetur sadipscing elitr  
 two
- (3C) 

one  
 lorem ipsum dolor sit amet  
 consetetur sadipscing elitr  
 two

In professional typesetting, a “strut” is a rule with no width but a certain height and depth, to help guaranteeing that an element has a certain minimal height and depth, e.g. in tabular environments or in boxes. Two possible implementations are proposed, one based on a character, defined via the **parbox.strut.character** setting, by default the vertical bar (`|`), and one relative to the current baseline skip, via the **parbox.strut.ruledepth** and **parbox.strut.ruleheight** settings, by default respectively `0.3bs` and `1bs`, following the same definition as in LaTeX. So they do not achieve exactly the same effect: the former should ideally be a character that covers the maximum ascender and descender heights in the current font; the other uses an alignment at the baseline skip level assuming it is reasonably fixed. The standalone command, would you need it, is `\strut[method=...]`, where the method can be “character” (default) or “rule”. It returns the dimensions (for use in Lua code). If needed, the **show** option indicates whether the rule should inserted at this point (defaults to true).

Footnotes (and migrating material) in a parbox are transferred to the upper context. So they work as expected, but it is the main rationale behind the rule-based strut above: footnote calls may consist in raised and scaled content, so you might need a bit more spacing than just a character-derived ascender height.<sup>18</sup>

---

<sup>18</sup> The other reason is, of course, that the character-based method depends on the font size, which might not be the same inside the parbox and outside. None of the methods is perfect, as line spacing may also vary depending on the selected algorithm and settings.

Let us try parboxes of different heights and footnotes in parboxes...

- (4) 

lorem ipsum dolor sit amet (...)
consetetur sadipscing elitr
centered
I am ragged
left
A paragraph after a skip. <sup>19</sup>

lorem ipsum dolor sit amet (...)
consetetur sadipscing elitr sed
diam nonumy eirmod tempor
invidunt ut labore <sup>20</sup>

Another option is **padding**, with a length applied on all sides of the parbox. Say, with 5pt.<sup>21</sup>

- (5) 

one
lorem ipsum dolor sit amet
consetetur sadipscing elitr
two

And finally, all the above examples were all framed specifying a **border** option (as a thickness length, here set to 0.5pt), but obviously the border is not enabled by default, i.e. set to zero.

- (6) 

one
lorem ipsum dolor sit amet
consetetur sadipscing elitr
two

The border and the padding can be specified as a single length (applying on all sides) or a string containing a space-separated list of four lengths (“top bottom left right”).

We have shown several examples but haven’t mentioned yet what could be one of the *most important concepts* underlying these paragraph boxes: each of them initializes its own typesetter instance and a dedicated (temporary) frame.<sup>22</sup> A consequence of the latter remark is that the frame width (and units expressed in percentages of it) inside the parbox is the actual width of the parbox. Another notable effect is that centering and right or left flushing work as expected, out-of-the-box, as could have already been guessed from example 4 above. Another important point is that each parbox pushes and resets SILE’s settings to their top-level values, so that the content inside the parbox may tweak them, e.g. fonts,

<sup>19</sup> Footnote from 4, left parbox.

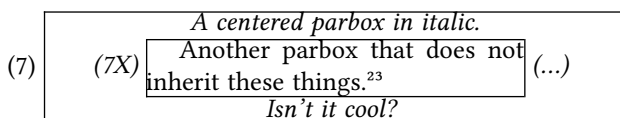
<sup>20</sup> Footnote from 4, right parbox.

<sup>21</sup> If the padding does not seem to be the same on the sides and on the top and bottom, it is due to the strut.

<sup>22</sup> For technically-minded users, the frame is just used to wrap the processing in a constrained width. The content is afterwards extracted and re-boxed.

right and left skips, etc. without affecting anything else, especially other embedded parboxes.

In other terms, the parbox acts as as a sort of semi-independent mini-frame. In the example below, showing all these features, a centered parbox in italic contains another parbox, each having a size set to 65%fw.



So to recap, the parbox allows one to set up paragraphs inside a text box. One word, though, on things that may fail. The struts are implemented by tweaking the height and depth of the first and last vbox in the parbox, but with complex content, this might not be very robust. Likewise, the content may include vertical glues and elements that can be stretched or shrunk. The implementation attempts at removing them on the first level, but deeply nested elements might cause issues. It is a powerful tool and it can be a basis for advanced box models or for tabular elements<sup>24</sup>, etc. But be warned there could be some edge-cases. Also, it is worth noting the current implementation has not been experimented yet in right-to-left or vertical writing direction.

### 1.1.8 ptable: flexible tables

The **ptable** package provides commands to typeset flexible tables.<sup>25</sup>

There are many different ways tables could be declared. TeX, LaTeX and friends do it in a certain way. HTML and other W3C standards do it differently. And in the wild world of XML document formats and specifications, there are many other syntaxes, from fairly simple to highly complex ones (TEI, OASIS, DITA, CALS...), so this package, while influenced by some of them, does not try to mimic a specific one in particular.

#### *Table structure.*

The tables proposed here are based on pre-determined column widths, provided via the mandatory **cols** option of the **\ptable** environment. It implies that the column widths do not automatically adapt to the content, but inversely that the content will be line-broken etc. to horizontally fit in fixed-width cells.

<sup>23</sup> Footnote from 7X, to see it “cascades” up to the main frame and the printed page.

<sup>24</sup> Cells in complex tables can be regarded as a good use case for paragraph boxes. See the **ptable** package.

<sup>25</sup> The name stands for *perfect table*... No, just kidding, it stands for *parbox-based table*, as the so-called “parbox” is the underlying building block. You don’t have to understand it to use this package, though.

That column specification is a space-separated list of widths (indirectly also determining the expected number of columns). Let us illustrate it with “50%fw 50%fw”.

A <sup>26</sup>	B
C	D

The other options are **cellpadding** (defaults to 4pt) and **cellborder** (defaults to 0.4pt; set it to zero to disable the borders). Both can be either a single length (applying to all sides) or four space-separated lengths (top, bottom, left, right).

A **\ptable** can only contain **\row** elements. Any other element causes an error to be reported, and any text content is silently ignored.

In turn, a **\row** can only contain **\cell** or **\celltable** elements, with the same rules applying. It only has one option, **background**.

The **\cell** is the final element containing text or actually anything you may want, including complete paragraphs, images, etc. It has two options (**span** and **valign**) that will be described later, besides the **border** and **padding** specifications and the **background** color. All options (including additional ones you may set) are also passed to a cell “hook”.

The **\celltable** is a specific type of cell related to cells spanning over multiple rows. It has only one option (**span**) and will be addressed later too.

Rows and regular cells, as noted, can have background color. The color specification is the same as defined in the **color** package. The global cell border and padding specifications from the table can be overridden on each cell.

	orbital period (yr)	radius (km)
Mercury	0.24	2440
Venus	0.62	6051

*Cell content.*

For now, let us stick with regular cells. As stated, their content could be anything. Each cell can be regarded as an independent mini-frame. Notably, the “frame width” within a cell is actually that of this cell, meaning that any command relying on it adapts correctly.<sup>27</sup> That is true too for other frame-related relative

<sup>26</sup> By the way, footnotes in tables are supported.

<sup>27</sup> The “frame height” on the other hand is not known yet as the cells will vertically adapt automatically to the content.

units, such as the line length.

We could illustrate it with many commands, but allow us some *inception* with tables-within-tables, all using “60%fw 40%fw” as column specification.

<table><tr><td>A</td><td>B</td></tr></table>			A	B	C	D
A	B					

Notice how each embedded table is relative to its parent cell width, and the column heights are automatically adjusted. By default, the content is middle-aligned but this is where the **valign** cell option may be used. Let’s set it to “top” for C and “bottom” for D.

<table><tr><td colspan="2"><table><tr><td>A</td><td>B</td></tr></table></td><td>C</td></tr></table>			<table><tr><td>A</td><td>B</td></tr></table>		A	B	C	D
<table><tr><td>A</td><td>B</td></tr></table>		A	B	C				
A	B							

#### *Column and row spanning.*

By default, each cell takes up the width of one column. You can allow some cells to span over multiple columns, using the **span** option with the appropriate value, e.g. 2 below on cell A. This is also what some office programs call “merging”.

A	
B	C

So far, so easy. But what about spanning over multiple rows? Each cell takes up, by default, the height of one row... and in this table package, one cannot change that fact.

Instead of “merging”, we however have “splitting”, in that direction. You will still specify a *single cell*, but of a special type which turns out to be a (sub-)table. The command for that purpose is the abovementioned **celltable**. It can only contain rows, so it is really an inner table used as a cell.

A	B
	C

In other terms, the above table has only one row, but the second cell is divided into two sub-rows. Other than that, this special type of cell remains a cell, so the column heights will automatically be adjusted if need be (evenly distributed

between the sub-rows)... and as a cell, too, it supports the **span** option for column spanning. One might thus achieve fairly complex layouts.<sup>28</sup>

A.	B.	C.
D.	E	
F.	G.	H.
	I.	

*Cell styling.*

Each cell being a mini-frame, it resets its settings to their top-level (i.e. document) values. Cell content and options, though, are passed to a **ptable:cell:hook** which is just a pass-through command by default. Would you want to define specific styling for some cells, you can re-define that command to achieve it.

*Other considerations.*

Due to the way the table is built by assembling boxes, page breaks may only occur between first-level rows. With tables involving cell splitting, it might be difficult to get a good break-point.

Also, this package does not support a header row that would be repeated on each page.<sup>29</sup>

**1.1.9 redefine: (basic) command redefinition**

The **redefine** package can be used to easily redefine a command under a new name.

Sometimes one may want to redefine a command (e.g. a font switching hook for some other command, etc.), but would also want to restore the initial command definition afterwards at some point, or to invoke the original definition from the newly redefined one.

This package is just some sort of quick “hack” in order to do it in an easy way from within a document in SILE language. It is far from perfect, it likely has implications if users start saving and restoring commands in a disordered way, but it can do the magic in fairly reasonable symmetric cases.

The first syntax below allows one to change the definition of command *<name>* to new *<content>*, but saving the previous definition to *<saved-name>*:

```
\redefine[command=<name>, as=<saved-name>]{{<content>}}
```

<sup>28</sup> Exercise left to the reader: can you craft the same table but with the C and E columns merged?

<sup>29</sup> Patches are welcome.



From now on, invoking `\<name>` will result in the new definition to be applied, while `\<save-name>` will invoke the previous definition, whatever it was.

Of course, be sure to use a unique save name: otherwise, if overwriting an existing command, you will get a warning, at your own risks...

If invoked without `<content>`, the redefinition will just define an alias to the current command:

```
\redefine[command=<name>, as=<saved-name>]
```

The following syntax allows one to restore command `<name>` to whatever was saved in `<saved-name>`, and to clear the latter:

```
\redefine[command=<name>, from=<saved-name>]
```

So now on, `\<name>` is restored to whatever was saved and `\<saved-name>` is no longer defined. Again, if the saved name corresponds to some existing command in a broader scope, things may break.

## 1.2 Technical packages

These packages are not intended to be used alone, but provide utilities for other packages. They are therefore mainly aimed at package and class writers.

### 1.2.1 styles: (experimental) style specifications

The **styles** package can be used to easily define styling specifications. It is intended to be used by other packages or classes, rather than directly.

If one looks at the default/standard packages or classes in SILE, something may seem wrong (though of course it is a matter of taste and could be debated): (1) Many commands have “hooks”, such as **pullquote:font**, **book:chapterfont**, or whatever. But what if one also wants, for instance, to specify a color? Of course, in many cases, the hook could be redefined to apply that wanted color to the content... But, er, isn’t it called **xxx:font**? Something looks amiss. (2) Those hooks often have fixed definitions, e.g. footnote text at 9pt, chapter heading at 22pt. This doesn’t depend on the document main font size. LaTeX, years before, was only a bit better here, defining different relative sizes (but assuming a book is always typeset in 10pt, 11pt or 12pt). (3) Many commands, say book sectioning, rely on hard-coded vertical skips. But what if one wants a different vertical spacing? Two solutions come to mind, either redefining the relevant commands (say **\chapter**) or temporarily redefining the skips (say, **\bigskip**)... In a way, it all sounds very clumsy, cumbersome, somehow *ad hoc*, and... here, LaTeX-like. Which is not necessarily wrong (there is no offense intended here), but why not try a different approach?

Actually, this is what most modern word-processing software have been doing for a while, be it MS-Word, Libre/OpenOffice and cognates... They all introduce the concept of “styles”, in actually three forms at least: character styles, paragraph styles and page styles. But also, frame styles, list styles, and table styles, to list a few others.

This package is an attempt at implementing such ideas, or a subset of them, in SILE.

Let’s have a look at some recent version of LibreOffice...

Character styles include: font (family, style and weight, size, language, features), font effects (color, decoration e.g. underlining and strikethrough, case), position (superscript, subscript), rotation... (and plenty of smaller features, e.g. borders, which interest is a bit doubtful, heh!).

Paragraph styles, in addition to the above, include: indent and spacing, alignment, outline & numbering, text flow (notably, breaks).

Page styles include: page layout (a bit akin to SILE’s masters), header and footer, folio numbering, background and such fancy things. Columns too, though this could be debatable.

— *Anything below this point is still experimental, and likely unstable.* —

To define a (character) style, one uses the following syntax (with any of the internal elements being optional):

```
\style:define[name=<name>]{
  \font[<font specification>]
  \color[color=<color>]
}
```

Can you guess how this *STYLE* was defined?

A style can also inherit from a previously defined style:

```
\style:define[name=<name>, inherit=<other-name>]{
  ...
}
```

To apply a (character) style to some content, one just has to do:

```
\style:apply[name=<name>]{<content>}
```

Regarding re-definitions now, the first syntax below allows one to change the definition of style <name> to new <content>, but saving the previous definition to <saved-name>:

```
\style:redefine[name=<name>, as=<saved-name>]{<content>}
```

From now on, style <name> corresponds to the new definition, while <saved-name> corresponds to previous definition, whatever it was.

Another option is to add the **inherit** option to true, as show below:

```
\style:redefine[name=<name>, as=<saved-name>, inherit=true]{<content>}
```

From now on, style `\<name>` corresponds to the new definition as above, but also inherits from `\<saved-name>` — in other terms, both are applied. This allows one to only leverage the new definition, basing it on the older one.

Note that if invoked without `<content>`, the redefinition will just define an alias to the current command (and in that case, obviously, the **inherit** flag is not supported). It is not clear whether there is an interesting use case for it (yet), but here you go:

```
\style:redefine[name=<name>, as=<saved-name>]
```

Finally, the following syntax allows one to restore style `<name>` to whatever was saved in `<saved-name>`, and to clear the latter:

```
\style:redefine[name=<name>, from=<saved-name>]
```

So now on, `\<name>` is restored to whatever was saved and `\<saved-name>` is no longer defined.

The package also defines a `\style:font` command, which is basically the same as the standard `\font` command, but additionally supports relative sizes with respect to the current **font.size**. It is actually the command used when applying a font style specification. For the sake of illustration, let's assume the following definitions:

```
\style:define[name=smaller]{\font[size=-1]}
\style:define[name=bigger]{\font[size=+1]}
\define[command=smaller]{\style:apply[name=smaller]{\process}}
\define[command=bigger]{\style:apply[name=bigger]{\process}}
```

Then:

```
Normal \smaller{Small \smaller{Tiny}},
Normal \bigger{Big \bigger{Great}}.
```

Yields: Normal Small Tiny, Normal Big Great.

Where do we go now? Paragraph and page styles haven't been proposed. Character styles could include other features. In other terms, this is an experimental work in progress!

### 1.2.2 omifootnotes: footnotes redone

The **omifootnotes** package is a re-implementation of the default **footnotes** package from SILE.

In addition to the `\footnote` command, it provides a `\footnote:rule` command as a convenient helper to set a footnote rule. It may be called, early on in your documents, without options, or one or several of the following:

```
\footnoterule[length=<length>, beforeskipamount=<glue>,
afterskipamount=<glue>, thickness=<length>]
```

The default values for these options are, in order, **25%fw**, **2ex**, **1ex** and **0.5pt**.

It also redefines the way the footnote reference is formatted in the footnote itself (that is, the internal `\footnote:counter` command), to use a superscript counter. Both the footnote reference and the footnote call (that is, the internal `\footnote:mark` command) are configured to use actual superscript characters if supported by the current font (see the **textsubsuper** package)<sup>30</sup>.

It also adds a new **mark** option to the footnote command, which allows typesetting a footnote with a specific marker instead of a counter<sup>†</sup>. In that case, the footnote counter is not altered. Among other things, these custom marks can be useful for editorial footnotes.

Finally, relying on the **styles** package, the footnote content is typeset according to the **footnote** style (and this re-implementation of the original footnote package, therefore, does not have a `\footnote:font` hook).

### 1.2.3 omitableofcontents: revisited table of contents

The **omitableofcontents** package is a wrapper around the **tableofcontents** package, redefining some of its default behaviors.

First, it clears the table header and cancels the language-dependent title that the default implementation provides. This author thinks that such a package should only do one thing well: typesetting the table of contents, period. Any title (if one is even desired) should be left to the sole decision of the user, e.g. explicitly defined with a `\chapter[numbering=false]{...}` command or any other appropriate sectioning command, and with whatever additional content one may want in between. Even if LaTeX has a default title for the table of contents, there is no strong reason to do the same. It cannot be general: One could want “Table of Contents”, “Contents”, “Summary”, “Topics”, etc. depending of the type of book. It feels wrong and cumbersome to always get a default title and have to override it, while it is so simple to just add a consistently-styled section above the table...

---

<sup>30</sup> You can see a typical footnote here.

<sup>†</sup> As shown here, using `\footnote[mark=†]{...}`.

Moreover, this package overrides all the level formatting commands to rely on styles (using the **styles** package), with specific options for the TOC. The style specifications, besides the formatting of the text, also include:

- Displaying the page number or not,
- Filling the line with dots (default) or not,
- Displaying the section number or not.

Other than that, everything else from the standard package applies.

#### 1.2.4 omirefs: cross-references

The **omirefs** package provides tools for classes and packages to support cross-references within a document. It exports two Lua functions, **moveRefs()** and **writeRefs()**. The former should be called at the end of each page to collate label references. The latter should be called at the end of the document, to save the references to a file which is read when the package is initialized.

From a document author perspective, the commands **\label** and **\ref** are then available. Both take a **marker** option, which can be any reference string. They do not expect any argument; if one is passed, though, it is just processed as-is.

The **\label** command is used to reference a given point in a document. Let us do it just here. It does not print anything, but we now have a reference, just before this sentence.

The **\ref** command is used to refer to the point with the specified marker and print out a resolved value depending on the **type** option.

The page number is always available as **\ref[marker=<marker>, type=page]**<sup>32</sup>: our label is on page 29.

In a book-like class, the current sectioning level (chapter, section, etc.) is also available<sup>33</sup>, by number or title. The current section number corresponds to **\ref[marker=<marker>, type=section]**. So here we should be in 1.2.4, if this documentation is included in some sort of book. The current section title corresponds to **\ref[marker=<marker>, type=title]**. Here, “omirefs: cross-references” (with us adding the quotes).

If referencing a marker that does not exist or a section which is not available<sup>§</sup>,

<sup>32</sup> The package also provides the **\pageref[marker=<marker>]** command as a mere convenience alias.

<sup>33</sup> Actually, the package currently leverages the **\tocentry** command if it exists, so assumes section entries explicitly marked for being excluded from the table of contents will not be referred to. That’s a guess in the dark, so do not hesitate reporting an issue.

<sup>§</sup> Perhaps we are not even in a numbered section? Ok, this note is kind of obvious, not to say dumb. But it should be a footnote with a mark instead of a counter, if a footnote package supporting them (as this author’s **omifootnotes** package) is active. If so, you will see why *infra*.

a warning is reported and the printed output is `<missing reference>`.

If this package is loaded after a footnote package, then we also get the footnote number for a label in a footnote, with `\ref[marker=<marker>, type=default]`. For instance, let's pretend with want to refer the reader to notes 33 and §.

This **default** type is actually the most general and, as its name implies, the default one if you omit specifying a type. If the referenced label is not in a numbered object such as a footnote — or say, in the future, a figure or table caption — then the section number is printed. In other terms, you get the closest item numbering value.

This author knows some editors are pedantic and actually confesses the same guilt. This package therefore supports another type, **relative**, which would not have needed such a machinery. Easy, this package description started *supra* and ends *infra*. And it even accepts, on all the above-mentioned flavors of the `\ref` command, a **relative** option that may be set to true. So it started on page 29 *supra* and ends on page 30 *infra*. Blatant pedantry, for sure, but a fault confessed is half redressed. Let's pretend that *sometimes*, it might help obtaining better line breaks.

As a final note, if the **pdf** package is loaded before using label commands, then hyperlinks will be enabled on references. You may disable this behavior by setting the **linking** option to false on the `\ref` command.

## 1.3 Specialized packages

### 1.3.1 teidict: XML TEI P4 print dictionaries

This package supports a subset of the (XML) TEI P4 “Print Dictionary” standard, as suitable for the Sindarin Dictionary project, and assumes a similar structure to the latter, see its Data Model<sup>35</sup>.

The main pain point is that such a dictionary is a heavily “semantic” structured mark-up (i.e. a “lexical view”, encoding structure information such as part-of-speech etc. without much concern for its exact textual representation in print form), much more than a “presentational” mark-up. Some XML nodes may contain many things one needs to ignore (such as spaces, mostly) or supplement (such as punctuation, parentheses, numbering... and again, proper spaces where needed). Without XPath to check siblings, ascendants or descendants, it may become somewhat hard to get a nice automated output (and even with XPath, it is not that obvious). In other terms, the solution proposed here is somewhat *ad hoc* for a specific type of lexical TEI dictionary and depends quite a lot on its structural organization.

---

<sup>35</sup> <[https://omikhleia.github.io/sindict/manual/DATA\\_MODEL.html](https://omikhleia.github.io/sindict/manual/DATA_MODEL.html)>

This package is not intended to be used as-is, but along with the **teibook** class, which loads it as well as a number of extra packages. It itself relies on a few settings that one would usually define in a preamble document, e.g.:

**sile -l preambles/dict-sd-en-preamble.sil** <dictionary.xml>

### 1.3.2 **teiabbr**: localized abbreviations for TEI dictionaries

This utility package is loaded by the **teidict** package and provides it with a few localized strings (currently for English and French).

It also defines the routines for building and typesetting the list of used abbreviations, the references and the default “impressum” (colophon).

In the current state of art, it is at best experimental (hence the reason for having these functions in a distinct package). The only reason why one could want to look at it and modify it would be to add new abbreviations (e.g. for grammatical categories) or their translations.

## Packages



## Chapter 2 Classes

### 2.1 *omibook*: a book class redone

This is a work in progress, gradually tuning the default book class from SILE to this author's needs and taste.

Regarding the differences for now, it has slightly different default page masters, as the gutter space was found to be too small. The sectioning commands (partially) obey styles (relying on the **styles** package). The chapter pages have page numbering. The page numbers, by the way, are flushed left or right depending on the page, rather than centered. The footnotes are based on the **omifootnotes** package. The table of contents relies on the **omitableofcontents** package. It supports cross-references via the **omirefs** package.

This very document uses it. As stated, it is far from finished, so anything that may look wrong here may show where we are heading to. And, obviously, as nothing is definitive yet, things may change or break.

### 2.2 *teibook*: XML TEI P4 print dictionaries

This is a book-like class for (XML) TEI dictionaries.

It just defines the appropriate page masters, sectioning hooks and loads all needed packages. The hard work processing the XML content is done in the **tei-dict** package.

This author does not intend to discuss it in full here. To see it in action, you can refer to our small example in our repository<sup>1</sup>. For a more complex project using the same tools, you may also check the *sindict* repository<sup>2</sup>.

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<sup>1</sup> <<https://github.com/Omikhleia/omikhleia-sile-packages/tree/main/examples>>

<sup>2</sup> <<https://omikhleia.github.io/sindict/>>