

Chapter 1

Sample Pier file

1.1 Chapter & Sections

A line starting with ! becomes a chapter heading. Use multiple ! to create sections and subsections

To refer to a section or chapter, put an anchor (equivalent to `\label{chapterAndSections}` in Latex) using the `@chapterAndSections` syntax on a *separate line*. Then, when you want to link to it (equivalent to `\ref{chapterAndSections}` in Latex), use the `*chapterAndSections*` syntax. Anchors are invisible and links will be rendered as: 1.1.

1.2 Paragraphs and framed paragraphs

An empty line starts a new paragraph.

An annotated paragraph starts a line with `@@` followed by either `todo` or `note`. For example,

```
@@note this is a note annotation.
```

generates

Note

```
this is a note annotation.
```

And,

```
@@todo this is a todo annotation
```

generates a todo annotation that is not visible in the output.

1.3 Lists

1.3.1 Unordered lists

–A block of lines,
–where each line starts with –
–is transformed to a bulleted list, where each line is an entry.

generates

- A block of lines,
- where each line starts with -
- is transformed to a bulleted list, where each line is an entry.

1.3.2 Ordered lists

#A block of lines,
#where each line starts with #
#is transformed to an ordered list, where each line is an entry.

generates

1. A block of lines,
2. where each line starts with #
3. is transformed to an ordered list, where each line is an entry.

1.3.3 Description lists

Description lists are lists with labels:

;blue
:color of the sky
;red
:color of the fire

generates

blue

color of the sky

red

color of the fire

1.3.4 List nesting

- Lists can also be nested.
- #Thus, a line starting with ==-#==
- #is an element of a bulleted list that is part of an ordered list.

generates

- Lists can also be nested.
 1. Thus, a line starting with -#
 2. is an element of a bulleted list that is part of an ordered list.

1.4 Formatting

There is some sugar for font formatting:

- To make something **bold**, write `""bold""`
- To make something *italic*, write `"italic"`
- To make something `monospaced`, write `==monospaced==`
- To make something ~~strikethrough~~, write `-strikethrough-`
- To make something subscript, write `@@subscript@@`
- To make something superscript, write `↑↑superscript↑↑`
- To make something underlined, write `__underlined__`

1.5 Tables

To create a table, start off the lines with `|` and separate the elements with `|s`. Each new line represents a new row of the table. Add a single `!` to let the cell become a table heading.

```

|!Language |!Coolness
|Smalltalk | Hypra cool
|Java | baaad

```

Language	Coolness
Smalltalk	Hypra cool
Java	baaad

The contents of cells can be aligned left, centered or aligned right by using `{`, `|` or `}` respectively.

```

||centered||centered||centered
|{ left |} right || centered

```

generates

```

centered centered centered
left          right centered

```

1.6 Links

1.6.1 Internal Links and Anchors

To put an anchor (equivalent to `\label` in Latex), use the `@anchorName` syntax on a *separate line*. Then, when you want to link to it (equivalent to `\ref` in Latex), use the `*anchorName*` syntax. Anchors are invisible and links will be rendered as: 1.6.1.

1.6.2 External Links

To create links to external resources, use the `*Pharo>http://pharo-project.org/*` syntax which is rendered as Pharo.

1.7 Pictures

To include a picture, use the syntax `+caption>file://filename|parameters+`:

```

+Label of the picture>file://pier-logo.png|width=50|label=pierLogo+

```

generates Figure 1.1 (this reference has been generated using `*pierLogo*`).



Figure 1.1: This is the label of the picture.

1.8 Scripts

```
[[[  
foo bar  
]]]
```

generates

```
foo bar
```

If you want either a label (to reference the script later) or a caption (to give a nice title to the script), write the following:

```
[[[label=script1|caption=My script that works|language=Smalltalk  
self foo bar  
]]]
```

which produces

Script 1.1: *My script that works*

```
self foo bar
```

This script can then be referenced with **script1** (produces ??).

This is another script (referenced as ??), with no caption this time:

Script 1.2:

```
foo bar
```

1.9 Verbatim

If you want to include verbatim text into a page you must enclose it in {{{ and }}}; otherwise Pier ensures that all text appears as you type it.

A good practice is to always specify for which kind of export the verbatim text must be outputted by starting the block with `{{{latex:}` or `{{{html:}` (for now only LaTeX and HTML are supported). For example, the following shows a formula, either using LaTeX or an image depending on the kind of export.

```

{{{latex:
\begin{equation}
  \label{eq:1}
  \frac{1+\sqrt{2}}{2}
\end{equation}
}}}
{{{html:

}}}
```

This results in

$$\frac{1 + \sqrt{2}}{2} \quad (1.1)$$

Take care: avoid terminating the verbatim text with a `}` as this will confuse the parser. So, don't write `{{{\\begin{scriptsize}}}}` but `{{{\\begin{scriptsize}}}}` instead.

1.10 Preformatted (less used)

To create a preformatted block, begin each line with `=`. A preformatted block uses equally spaced text so that spacing is preserved.

```
= this is preformatted text
= this line as well
```

1.11 Commented lines

Lines that start with a `%` are considered comments and will be rendered as such in the output document (e.g., in HTML, such a line would be surrounded by `<!--` and `-->`).