

Org Mode ConT_EXt Export Demo

Sampling of Features

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1 Overview and Goals

1.1 Document Structure

This exporter is intended to provide a lot of flexibility through plain ConTeXt code with minimal elisp intervention. The output ConTeXt is structured to have as much setup code as possible in the document preamble and in general formatting instructions won't appear in the document body beyond simple semantic markers. In other words, unless you provide additional markup directives in the `org` file, there won't be any additional inline styling in the output ConTeXt file.

1.2 Customization

Customization can occur at three different levels of granularity. The coarsest control is the *preset* which is set by the `#+CONTEXT_PRESET` directive and is most similar to the L^AT_EX class. The next level of control is with *snippets* which are predefined pieces of code that the user can define. For instance, the user can select just the `layout-article` snippet to select a page layout similar to the default L^AT_EX article. The lowest level of control is provided by inserting literal ConTeXt code directly into the document using `#+CONTEXT_HEADER`, `#+CONTEXT_HEADER_EXTRA`, and `#+CONTEXT` directives.

Additional configuration can be inserted into the document preamble by using `preset`, `snippet`, or `literal` directives to customize the display of any of the different elements of the document.

1.3 Compatibility

This exporter is intended to provide as much compatibility as is reasonable with options and configuration for the L^AT_EX exporter.

2 Features

2.1 **DONE** A Block Elements

This section demonstrates different elements delimited by different `#+BEGIN/END` tags.

2.1.1 Source Blocks

Syntax highlighting is supported in ConT_EXt, but you may have to install a module to support it. By default, there is a custom ConT_EXt `typing` called `OrgBlkSrc` defined in the header that can be customized by adding `#+CONTEXT_HEADER_EXTRA: \setuptyping[OrgBlkSrc][...]`.

```
import this
for i in range(5):
    print(i * i)
```

2.1.2 Verse Blocks

By default, verse blocks are enclosed in a custom `\lines` environment called `OrgVerse` that can be customized by adding `#+CONTEXT_HEADER_EXTRA: \setuplines[OrgVerse][...]`.

The Monks and the Giants by John Hookham Frere

```
But chiefly, when the shadowy moon had shed
    O'er woods and waters her mysterious hue,
Their passive hearts and vacant fancies fed
    With thoughts and aspirations strange and new,
Till their brute souls with inward working bred
    Dark hints that in the depths of instinct grew
```

Subjection not from Locke's associations,
Nor David Hartley's doctrine of vibrations.

2.1.3 Example Blocks

By default, example blocks are enclosed in a custom `\typing` environment called `OrgExample` that can be customized by adding `#+CONTEXT_HEADER_EXTRA: \setuptyping[OrgExample][...]`.

The Zen of Python, by Tim Peters

Beautiful is better than ugly.
Explicit is better than implicit.
Simple is better than complex.
Complex is better than complicated.
Flat is better than nested.
Sparse is better than dense.
Readability counts.
Special cases aren't special enough to break the rules.
Although practicality beats purity.
Errors should never pass silently.
Unless explicitly silenced.
In the face of ambiguity, refuse the temptation to guess.
There should be one-- and preferably only one --obvious way to do it.
Although that way may not be obvious at first unless you're Dutch.
Now is better than never.
Although never is often better than **right** now.
If the implementation is hard to explain, it's a bad idea.
If the implementation is easy to explain, it may be a good idea.
Namespaces are one honking great idea -- let's do more of those!

2.1.4 Export Blocks

Both $\text{T}_{\text{E}}\text{X}$ and $\text{ConT}_{\text{E}}\text{Xt}$ export blocks are supported. Note that you may have incompatibility issues with $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ if your $\text{ConT}_{\text{E}}\text{Xt}$ code is labeled as $\text{T}_{\text{E}}\text{X}$.

2.1.4.1 Plain $\text{T}_{\text{E}}\text{X}$

ABC 123

2.1.4.2 $\text{ConT}_{\text{E}}\text{Xt}$



2.1.5 Centering

Centered text just in an `alignment` environment.

Nullam eu ante vel est convallis dignissim. Fusce suscipit, wisi nec facilisis facilisis, est dui fermentum leo, quis tempor ligula erat quis odio. Nunc porta vulputate tellus. Nunc rutrum turpis sed pede. Sed bibendum. Aliquam posuere. Nunc aliquet, augue nec adipiscing interdum, lacus tellus malesuada massa, quis varius mi purus non odio. Pellentesque condimentum, magna ut suscipit hendrerit, ipsum augue ornare nulla, non luctus diam neque sit amet urna. Curabitur vulputate vestibulum lorem. Fusce sagittis, libero non molestie mollis, magna orci ultrices dolor, at vulputate neque nulla lacinia eros. Sed id ligula quis est convallis tempor. Curabitur lacinia pulvinar nibh. Nam a sapien.

2.1.6 Quote Block

By default, block quotes are enclosed in a custom `startstop` environment called `OrgBlockQuote` that can be customized by adding
`#+CONTEXT_HEADER_EXTRA: \setupstartstop[OrgBlockQuote][...]`.

Aliquam erat volutpat. Nunc eleifend leo vitae magna. In id erat non orci commodo lobortis. Proin neque massa, cursus ut, gravida ut, lobortis eget, lacus. Sed diam. Praesent fermentum tempor tellus. Nullam tempus. Mauris ac felis vel velit tristique imperdiet. Donec at pede. Etiam vel neque nec dui dignissim bibendum. Vivamus id enim. Phasellus neque orci, porta a, aliquet quis, semper a, massa. Phasellus purus. Pellentesque tristique imperdiet tortor. Nam euismod tellus id erat.

2.2 Inline Elements

2.2.1 Code

Here's some code: `with open("file.txt") as f:`

2.2.2 Links

2.2.2.1 Named URL

Here's a link to [Org Mode](#)

2.2.2.2 Heading Link

Here's a link to “[Block Elements](#)”

2.2.2.3 Anonymous url

Here's a link to <https://orgmode.org>

2.2.2.4 Anonymous Unmarked url

<https://orgmode.org>

2.2.3 Radio Targets

This is a sample radio target

and this is a link to a [sample radio target](#)

2.2.4 Target

This is a link to “”

TODO

This should refer to the number to match L^AT_EX

2.2.5 Bold

This is **Some bold text**

2.2.6 L^AT_EX Fragments

Here's some inline L^AT_EX: $e = mc^2$

2.2.7 Inline Source

Hello, world!

2.2.8 Italic

This is some italic text

2.2.9 Line breaks

Here is a
line break

2.2.10 Strikethrough

~~This is strikethrough~~

2.2.11 Subscripts

This_{is} sub_{script}

2.2.12 Superscripts

This^{is} super^{script}

2.2.13 Underline

Here's some underlined text

2.2.14 Verbatim

`This is verbatim text`

2.2.15 Footnote Reference

Footnotes are formatted with the `\footnote` macro. Nested footnotes are not yet supported.

This should link to a footnote at the bottom of the page.¹

2.2.16 Smart Quotes

Smart quotes are formatted using the `\quote` and `\quotation` macros, which respect language settings.

Here’s an English quotation: “Here’s a ‘nested’ quote”

Here’s a Czech quotation: „Here’s a ‚nested‘ quote“

2.2.17 Clock

The default clock is set to use the ISO format. ConT_EXt doesn’t provide a locale-aware timestamp but the user can customize the clock appearance by overriding the `\OrgClock` macro. Example: 2021-01-17T16:58:00

2.2.18 Timestamp

Timestamps are supported by the `\date` macro, so different locales are supported.

Here’s an English timestamp: January 17, 2021

Here’s a French timestamp: 17 janvier 2021

¹ This is a sample footnote

2.3 Paragraph Elements

These elements form their own paragraph or section in the export.

2.3.1 Headlines

Headline text is formatted by a custom macro called `OrgHeadline` that receives the headline's todo, todo type, priority, text, and tags. This macro can be overridden by the user to customize the appearance of headlines.

2.3.2 L^AT_EX Environments

Common math environments are translated from L^AT_EX to ConT_EXt.

$$\begin{aligned}\frac{d^4}{dx^4}e^{ax} + e^{ax} &= 0 \\ a^4e^{ax} + e^{ax} &= 0 \\ a^4 + 1 &= 0 \\ a^4 &= -1\end{aligned}$$

2.3.3 Drawer

This is a simple drawer

2.3.4 Horizontal Rule

This is a horizontal rule:

2.3.5 Fixed width

Fixed-width text is enclosed in a custom `=typing~` environment called `OrgFixed` by default. To customize this environment, add `#+CONTEXT_HEADER_EXTRA: \setuptyping[OrgFixed][...]` to the document.

```
This is Some fixed-width text
```

2.3.6 Property Drawers

```
Title: Goldberg Variations
Composer: J.S. Bach
Artist: Glenn Gould
Publisher: Deutsche Grammophon
NDisks: 1
```

Property drawers are enclosed in a custom `typing` environment called `OrgPropertyDrawer` by default. To customize this environment, add `#+CONTEXT_HEADER_EXTRA: \setuptyping[OrgPropertyDrawer][...]` to the document.

2.3.7 Inline Task

Inline tasks are supported by a custom `\OrgInlineTask` macro. Arguments to the macro include the `todo` keyword, the `todo` type, the priority, the name of the task, tags, and contents.

Alternatively, for higher-level customization, the user can provide their own `org-context-format-inlinetask-function`.

```
* TODO [#B] Check Inline Task :tag1: DEADLINE: January 17, 2021
SCHEDULED: January 17, 2021 Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Donec hendrerit tempor tellus. Donec pretium posuere tellus.
Proin quam nisl, tincidunt et, mattis eget, convallis nec, purus. Cum sociis
```

natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nulla posuere. Donec vitae dolor. Nullam tristique diam non turpis. Cras placerat accumsan nulla. Nullam rutrum. Nam vestibulum accumsan nisl. *
END

2.3.8 Lists and items

Standard bulleted lists are enclosed in an `itemize` environment. Description lists use a custom `description` element called `OrgDesc`. Additionally, checkbox items use custom macros called `OrgItemOn`, `OrgItemOff`, and `OrgItemTrans` for the glyphs, so these can be overridden by the user by adding `#+CONTEXT_HEADER_EXTRA: \define\OrgItemOn{...}` to the document.

- Bullet 1
- Bullet 2
- Bullet 3
 - SubBullet 1
 - ☒ SubBullet 2 [1/2]
 - ▣ SubSubBullet 1
 - SubSubBullet 2

Description Item 1 Nullam eu ante vel est convallis dignissim. Fusce suscipit, wisi nec facilisis facilisis, est dui fermentum leo, quis tempor ligula erat quis odio. Nunc porta vulputate tellus. Nunc rutrum turpis sed pede. Sed bibendum. Aliquam posuere. Nunc aliquet, augue nec adipiscing interdum, lacus tellus malesuada massa, quis varius mi purus non odio. Pellentesque condimentum, magna ut suscipit hendrerit, ipsum augue ornare nulla, non luctus diam neque sit amet urna. Curabitur vulputate vestibulum lorem. Fusce sagittis, libero non molestie mollis, magna orci ultrices dolor, at vulputate neque nulla lacinia eros. Sed id ligula quis est convallis tempor. Curabitur lacinia pulvinar nibh. Nam a sapien.

- ☒ **Description Item 2** Checked
- ☐ **Description Item 3** Unchecked
- ☒ **Description Item 4 [1/2]** Transatory

- ☐ Sub1

- ☒ Sub2

1. Numbered item
2. Another Number

2.3.9 Tables

Tables are supported by the `xtables` environment.

| A | B |
|----------|----------|
| 1 | 2 |
| 3 | 4 |

Table 1 Default Layout Table

Here's the same table with `:option width`

| A | B |
|----------|----------|
| 1 | 2 |
| 3 | 4 |

Table 2 Wide Layout Table

Here's the same table with `:option tight`

| A | B |
|----------|----------|
| 1 | 2 |
| 3 | 4 |

Table 3 Tight Layout Table

Here's the same table with `:option stretch`

| A | B |
|---|---|
| 1 | 2 |
| 3 | 4 |

Table 4 Stretch Layout Table

Here's a very long table. We can split it by setting `:split t` and `:header repeat` in `#+ATTR_CONTEXT`.

| A | B | C | D | E | F | G | H | I | J |
|---|----|----|----|----|----|-----|-----|-----|-----|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 |
| 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 |
| 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |
| 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 |
| 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 |
| 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 |
| 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| 0 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 |
| 0 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 |
| 0 | 13 | 26 | 39 | 52 | 65 | 78 | 91 | 104 | 117 |
| 0 | 14 | 28 | 42 | 56 | 70 | 84 | 98 | 112 | 126 |
| 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 |
| 0 | 16 | 32 | 48 | 64 | 80 | 96 | 112 | 128 | 144 |
| 0 | 17 | 34 | 51 | 68 | 85 | 102 | 119 | 136 | 153 |
| 0 | 18 | 36 | 54 | 72 | 90 | 108 | 126 | 144 | 162 |
| 0 | 19 | 38 | 57 | 76 | 95 | 114 | 133 | 152 | 171 |

Table 5a Giant Table

| A | B | C | D | E | F | G | H | I | J |
|---|----|----|-----|-----|-----|-----|-----|-----|-----|
| 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 |
| 0 | 21 | 42 | 63 | 84 | 105 | 126 | 147 | 168 | 189 |
| 0 | 22 | 44 | 66 | 88 | 110 | 132 | 154 | 176 | 198 |
| 0 | 23 | 46 | 69 | 92 | 115 | 138 | 161 | 184 | 207 |
| 0 | 24 | 48 | 72 | 96 | 120 | 144 | 168 | 192 | 216 |
| 0 | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| 0 | 26 | 52 | 78 | 104 | 130 | 156 | 182 | 208 | 234 |
| 0 | 27 | 54 | 81 | 108 | 135 | 162 | 189 | 216 | 243 |
| 0 | 28 | 56 | 84 | 112 | 140 | 168 | 196 | 224 | 252 |
| 0 | 29 | 58 | 87 | 116 | 145 | 174 | 203 | 232 | 261 |
| 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 |
| 0 | 31 | 62 | 93 | 124 | 155 | 186 | 217 | 248 | 279 |
| 0 | 32 | 64 | 96 | 128 | 160 | 192 | 224 | 256 | 288 |
| 0 | 33 | 66 | 99 | 132 | 165 | 198 | 231 | 264 | 297 |
| 0 | 34 | 68 | 102 | 136 | 170 | 204 | 238 | 272 | 306 |
| 0 | 35 | 70 | 105 | 140 | 175 | 210 | 245 | 280 | 315 |
| 0 | 36 | 72 | 108 | 144 | 180 | 216 | 252 | 288 | 324 |
| 0 | 37 | 74 | 111 | 148 | 185 | 222 | 259 | 296 | 333 |
| 0 | 38 | 76 | 114 | 152 | 190 | 228 | 266 | 304 | 342 |
| 0 | 39 | 78 | 117 | 156 | 195 | 234 | 273 | 312 | 351 |
| 0 | 40 | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 |
| 0 | 41 | 82 | 123 | 164 | 205 | 246 | 287 | 328 | 369 |
| 0 | 42 | 84 | 126 | 168 | 210 | 252 | 294 | 336 | 378 |
| 0 | 43 | 86 | 129 | 172 | 215 | 258 | 301 | 344 | 387 |
| 0 | 44 | 88 | 132 | 176 | 220 | 264 | 308 | 352 | 396 |
| 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | 360 | 405 |
| 0 | 46 | 92 | 138 | 184 | 230 | 276 | 322 | 368 | 414 |
| 0 | 47 | 94 | 141 | 188 | 235 | 282 | 329 | 376 | 423 |

Table 5b Giant Table

| A | B | C | D | E | F | G | H | I | J |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | 48 | 96 | 144 | 192 | 240 | 288 | 336 | 384 | 432 |
| 0 | 49 | 98 | 147 | 196 | 245 | 294 | 343 | 392 | 441 |

Table 5c Giant Table

Here’s a table with paragraphs in it. ConT_EXt handles this gracefully by default.

| Description | Contents |
|--------------|--|
| First Thing | <p>Aliquam erat volutpat. Nunc eleifend leo vitae magna. In id erat non orci commodo lobortis. Proin neque massa, cursus ut, gravida ut, lobortis eget, lacus. Sed diam. Praesent fermentum tempor tellus. Nullam tempus. Mauris ac felis vel velit tristique imperdiet. Donec at pede. Etiam vel neque nec dui dignissim bibendum. Vivamus id enim. Phasellus neque orci, porta a, aliquet quis, semper a, massa. Phasellus purus. Pellentesque tristique imperdiet tortor. Nam euismod tellus id erat.</p> |
| Second Thing | <p>Pellentesque dapibus suscipit ligula. Donec posuere augue in quam. Etiam vel tortor sodales tellus ultricies commodo. Suspendisse potenti. Aenean in sem ac leo mollis blandit. Donec neque quam, dignissim in, mollis nec, sagittis eu, wisi. Phasellus lacus. Etiam laoreet quam sed arcu. Phasellus at dui in ligula mollis ultricies. Integer placerat tristique nisl. Praesent augue. Fusce commodo. Vestibulum convallis, lorem a tempus semper, dui dui euismod elit, vitae placerat urna tortor vitae lacus. Nullam libero mauris, consequat quis, varius et, dictum id, arcu. Mauris mollis tincidunt felis. Aliquam feugiat tellus ut neque. Nulla facilisis, risus a rhoncus fermentum, tellus tellus lacinia purus, et dictum nunc justo sit amet elit.</p> |

Table 6 Wrapped Table

Here's a shorter table.

| A | B | C | D | E | F | G | H | I | J |
|---|---|----|----|----|----|----|----|----|----|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 |
| 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 |
| 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |
| 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 |

Table 7 Short Table

TODO: Allow table-style to take keyword arguments

Tables can be customized in several ways. By default, the top and bottom rows, the left and right columns, and the four corners of the table have special styles which default to `OrgTableTopRow`, `OrgTableBottomRow`, `OrgTableLeftCol`, `OrgTableRightCol`, `OrgTableTopLeftCell`, `OrgTableTopRightCell`, `OrgTableBottomRightCell`, and `OrgTableBottomLeftCell`. These styles can be configured by adding

`#+CONTEXT_HEADER_EXTRA: \setupxtable[OrgTable...][...]` to the document. Styling options for individual tables can be configured using the `:top`, `:bottom`, `:left`, `:right`, `:topleft`, `:topright`, `:bottomright` and `:bottomleft` keywords in `#+ATTR_CONTEXT`.

| A | <i>B</i> | <i>C</i> | <i>D</i> |
|----------|----------|----------|----------|
| <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| <i>0</i> | <i>1</i> | <i>2</i> | <i>3</i> |
| 0 | <i>2</i> | <i>4</i> | <i>6</i> |

Table 8 Fancy Table

2.3.10 Other Features

2.3.10.1 Levels

Many levels of subheading are supported by ConT_EXt (up to 9). If more levels are needed, the user can create them using the `\definehead` macro.

To handle 10 levels, for example, add

```
#+CONTEXT_HEADER_EXTRA: \definehead[subsubsubsubsubsubsubsubsubsubsubsection]
[subsubsubsubsubsubsubsubsubsubsubsection]
```

to the document.

The L^AT_EX exporter handles arbitrarily deep nesting by treating deeper headings as list elements, but true headlines are only supported down to 5 levels deep.

2.3.10.1.1 Level 4

2.3.10.1.1.1 Level 5

2.3.10.1.1.1.1 Level 6

2.3.10.1.1.1.1.1 Level 7

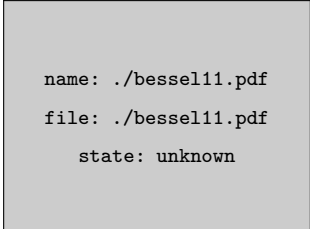
2.3.10.1.1.1.1.1.1 Level 8

2.3.10.1.1.1.1.1.1.1 Level 9

2.3.10.2 Images

Inline images are supported.

`#+CAPTION: Default Figure`
`[[./bessel11.pdf]]`



name: ./bessel11.pdf
file: ./bessel11.pdf
state: unknown

Figure 1 Default Figure

Nullam eu ante vel est convallis dignissim. Fusce suscipit, wisi nec facilis facilis, est dui fermentum leo, quis tempor ligula erat quis odio. Nunc porta vulputate tellus. Nunc rutrum turpis sed pede. Sed bibendum. Aliquam posuere. Nunc aliquet, augue nec adipiscing interdum, lacus tellus malesuada massa, quis varius mi purus non odio. Pellentesque condimentum, magna ut suscipit hendrerit, ipsum augue ornare nulla, non luctus diam neque sit amet urna. Curabitur vulputate vestibulum lorem. Fusce sagittis, libero non molestie mollis, magna orci ultrices dolor, at vulputate neque nulla lacinia eros. Sed id ligula quis est convallis tempor. Curabitur lacinia pulvinar nibh. Nam a sapien.

```
#+ATTR_CONTEXT: :float wrap :caption Default Wrapped Figure
[[./bessel11.pdf]]
```

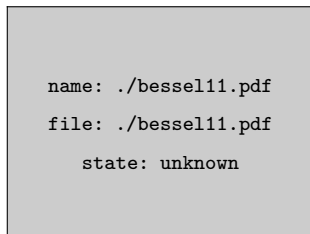


Figure 2 Default Wrapped Figure

Nullam eu ante vel est convallis dignissim. Fusce suscipit, wisi nec facilis facilis, est dui fermentum leo, quis tempor ligula erat quis odio. Nunc porta vulputate tellus. Nunc rutrum turpis sed pede. Sed bibendum. Aliquam posuere. Nunc aliquet, augue nec adipiscing interdum, lacus tellus malesuada massa, quis varius mi purus non odio. Pellentesque condimentum, magna ut suscipit hendrerit, ipsum augue ornare nulla, non luctus diam neque sit amet urna. Curabitur vulputate vestibulum lorem. Fusce sagittis, libero non molestie mollis, magna orci ultrices dolor, at vulputate neque nulla lacinia eros. Sed id ligula quis est convallis tempor. Curabitur lacinia pulvinar nibh. Nam a sapien.

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Figure 3. Margin Figure

2.4 Index

We can place an index in the document using `#+CONTEXT: \placeindex`

c

Centering **7**

s

Source Block **5**

e

Example Block **6**

Export Block **6**

v

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Quote Block **7**