

Date
January 17, 2021

DONE A Block Elements

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

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)
```

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.

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!
```

Export Blocks

Both `TEX` and `ConTEXt` export blocks are supported. Note that you may have incompatibility issues with `LATEX` if your `ConTEXt` code is labeled as `TEX`.

Plain T_EX

ABC 123

ConT_EXt



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.

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.

Inline Elements

Code

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

Links

Named URL

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

Heading Link

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

Anonymous url

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

Anonymous Unmarked url

<https://orgmode.org>

Radio Targets

This is a [sample radio target](#)

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

Target

This is a link to “”

TODO

This should refer to the number to match L^AT_EX

Bold

This is **Some bold text**

L^AT_EX Fragments

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

Inline Source

Hello, world!

Italic

This is some italic text

Line breaks

Here is a
line break

Strikethrough

~~This is strikethrough~~

Subscripts

This_{is} sub_{script}

Superscripts

This^{is} super^{script}

Underline

Here's some underlined text

Verbatim

`This is verbatim text`

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

¹ This is a sample footnote

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“

Clock

The default clock is set to use the ISO format. ConTeXt 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

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

Paragraph Elements

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

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.

L^AT_EX Environments

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

$$\frac{d^4}{dx^4}e^{ax} + e^{ax} = 0$$

$$a^4e^{ax} + e^{ax} = 0$$

$$a^4 + 1 = 0$$

$$a^4 = -1$$

Drawer

This is a simple drawer

Horizontal Rule

This is a horizontal rule:

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

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.`

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,
consectetuer adipiscing elit. Donec hendrerit tem-
por tellus. Donec pretium posuere tellus. Proin
quam nisl, tincidunt et, mattis eget, convallis nec,
purus. Cum sociis natoque penatibus et mag-
nis dis parturient montes, nascetur ridiculus mus.
Nulla posuere. Donec vitae dolor. Nullam tris-
tique diam non turpis. Cras placerat accumsan
nulla. Nullam rutrum. Nam vestibulum accumsan nisl.

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 1Nullam 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

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
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

Table 5a Giant Table

A	B	C	D	E	F	G	H	I	J
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

Table 5b Giant Table

A	B	C	D	E	F	G	H	I	J
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
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>	1	2	3
0	2	4	6

Table 8 Fancy Table

Other Features

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.

Level 4

Level 5

Level 6

Level 7

Level 8

Level 9

Images

Inline images are supported.

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

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.

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

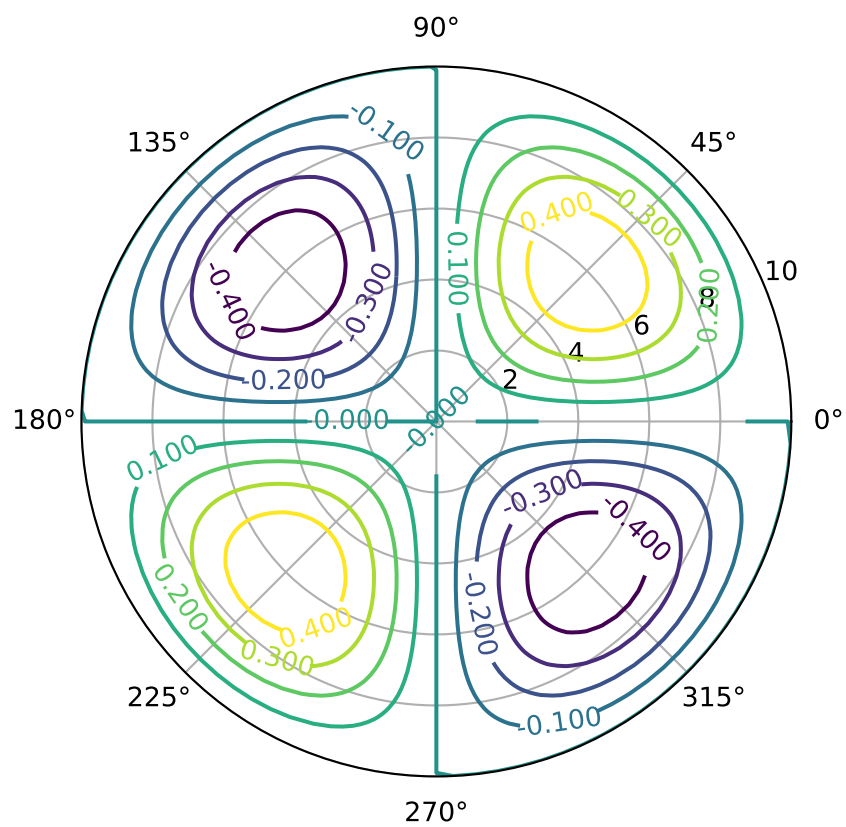


Figure 1 Default Figure

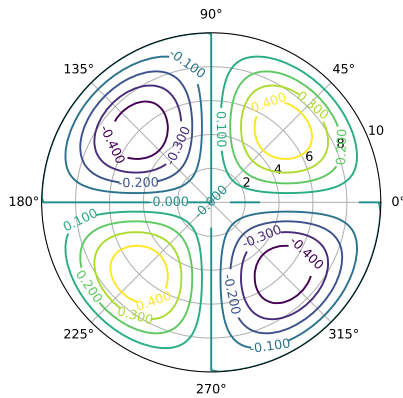


Figure 2 Default Wrapped Figure

ligula quis est convallis tempor. Curabitur lacinia pulvinar nibh. Nam a sapien.

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.

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.

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.

`#+ATTR_CONTEXT: :width 1in :placement rightmargin`

`#+CAPTION: Margin Figure`

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

[[./bessel11.pdf]]

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.

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.

Index

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

c		s	
Centering	3	Source Block	1
e		v	
Example Block	2	Verse Block	1
Export Block	2		
q			
Quote Block	3		

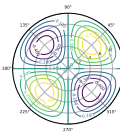


Figure 3
gin Figure