Org Mode LATEX Demo

Baseline Features

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1 Template Notes

This is the default LATEX export with the article class.

2 Sample Code

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 ConTeXt, but you may have to install a module to support it. By default, there is a custom ConTeXt 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 T_EX and ConTeXt export blocks are supported. Note that you may have incompatibility issues with I^AT_EX if your ConTeXt code is labeled as T_EX .

- 1. Plain T_FX ABC 123
- 2. ConTeXt

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

- 1. Named URL Here's a link to Org Mode
- 2. Heading Link Here's a link to 2.1
- 3. Anonymous url Here's a link to https://orgmode.org
- 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 2.2.3

TODO

This should refer to the number to match LATEX

2.2.5 Bold

This is Some bold text

2.2.6 LATEX Fragments

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

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"

¹This is a sample footnote

2.2.17 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: CLOCK: [2021-01-15 Fri 16:58]

2.2.18 Timestamp

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

Here's an English timestamp: <2021-01-15 Fri> Here's a French timestamp: <2021-01-15 Fri>

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 overriden by the user to customize the appearance of headlines.

2.3.2 LATEX Environments

Common math environments are translated from LATEX to ConTeXt.

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

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

DEADLINE: <2021-01-22 Fri> **SCHED- ULED:** <2021-01-15 Fri>

:TAG1:

Lorem ipsum dolor sit amet, consectetuer 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.

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 overriden by the user by adding #+CONTEXT_HEADER_EXTRA: \define\OrgItemOn{...} to the document.

- Bullet 1
- Bullet 2
- Bullet 3
 - SubBullet 1
 - \Box SubBullet 2 [1/2]
 - \boxtimes SubSubBullet 1
 - \square 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.

Table 1: Default Layout Table

Here's the same table with :option width

Table 2: Wide Layout Table

Here's the same table with :option tight

Here's the same table with :option stretch

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

Here's a table with paragraphs in it. ConTeXt handles this gracefully by default.

Table 3: Tight Layout Table

Table 4: Stretch Layout Table

Here's a shorter 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.

2.3.10 Other Features

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

- (a) Level 4
 - i. Level 5

A. Level 6

A	В	\mathbf{C}	Ta D	ble 5: E	Giant F	Table G	Н	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
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	1295	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 46	90	135 138	180 184	$\frac{225}{230}$	270 276	315	$\frac{360}{368}$	405 414

Table 6: Wrapped Table

Description	Contents
First Thing	Aliquam erat volutpat. Nunc eleifend leo vitae magna. In id erat non orci commodo
Second Thing	Pellentesque dapibus suscipit ligula. Donec posuere augue in quam. Etiam vel tortor

Table 7: Short Table										
A	В	\mathbf{C}	D	\mathbf{E}	\mathbf{F}	G	Η	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	

- B. Level 7
- C. Level 8
- D. Level 9

2. Images Inline images are supported.

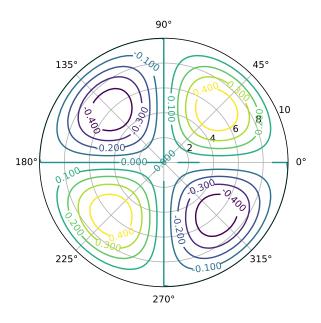


Figure 1: Default Figure

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

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.

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, consectetuer 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.

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.



right

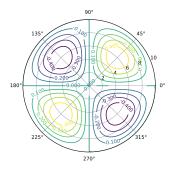
Figure 2: Margin Figure

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.

2.4 Index

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



Default Wrapped Figure