

## **This Year in Org** 🦄

A development roundup, and hints of what lies around the corner

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Timothy

2022-12-04

Project housekeeping

New features

Quality of life improvements

A flourishing ecosystem

Things to look forward to

## **Project housekeeping**

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- Gogs is gone (<https://code.orgmode.org>)
- Savannah is the new code home, right next to Emacs
- Mirror on SourceHut (<https://git.sr.ht/~bzg/org-mode>), along with:
  - The website (<https://git.sr.ht/~bzg/orgweb>)
  - Worg (<https://git.sr.ht/~bzg/worg>)
  - Org contrib (<https://git.sr.ht/~bzg/org-contrib>)
- Tests are now regularly run (<https://git.sr.ht/~bzg/org-mode-tests/>)

## Funding contributors

Historically, Bastien's personal GitHub sponsors has been the primary means of financially supporting Org mode.

Earlier this year, Bastien created a LibrePay *Org mode* team account.



Current members:

<https://liberapay.com/org-mode/>

- Bastien (bgz)
- Ihor (yantar92)
- *me*, Timothy (tecosaur)

## **New features**

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## An assortment of export improvements

- Including remote documents with `#+include: https://...`
- More  $\text{\LaTeX}$  attributes for various objects (quote, verse, tables)
- Support for DOI links
- Math support in `ox-texinfo`, and other additions
- Publishing links to encrypted Org files
- Upgrade to Mathjax 3
- *and more...*

## A collection of babel improvements

- ASCII graphs with `ob-plantuml`
- New syntax for passing raw code as an argument
- New noweb argument `:noweb-prefix`
- Improved `:return` capabilities with `ob-python`
- Ability to pass content of a src block as a `:var` value
- *and more...*



## A multitude of general org-mode improvements

- Improved refiling
- Capture template hooks
- Image preview sizing
- More clocktable settings
- Agenda tweaks
- Custom lint rules
- *and more...*



## **Quality of life improvements**

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- Generalisation of “folding content”
- Supports *both* overlay and text-property based folding
- Provides substantial improvements on large files

## Org element cache

- Refactoring of many org-element functions to accept cache information
- A huge amount of work on managing cache invalidation
- Speed boots sprinkled all around `org-element`
- `org-element-cache-map` for anybody wanting to quickly map over Org elements

- Persist values across Emacs sessions
- Used for downloaded files in exports
- Used with `org-element-cache` data

# More careful resource downloading

An org-mode document would like to download

↪ <https://orgmode.org/resources/img/org-mode-unicorn.svg>, which is not considered safe.

Do you want to download this? You can type

! to download this resource, and permanently mark it as safe.

d to download this resource, and mark the domain (<https://orgmode.org>) as safe.

f to download this resource, and permanently mark all resources in

↪ `/home/tec/Documents/2022/11-Nov/ThisYearInOrg/presentation.org` as safe.

y to download this resource, just this once.

n to skip this resource.

## Bug fixes





## Asynchronous session evaluation execution

- Introduction of an `:async` header
- Required enhancements to `ob-comint.el`
- Support for async evaluation with a session in `ob-python` and `ob-R` at the moment
- More languages to come?

# Nicer tangle mode syntax

## Before

- `:tangle-mode (identity #o755)`

## New forms

- `:tangle-mode o755`
- `:tangle-mode rwxrw-rw-`
- `:tangle-mode u+x`  
(see `org-babel-tangle-default-file-mode`)

## **A flourishing ecosystem**

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An online, open source zettelkasten/PKB.



[logseq.com](https://logseq.com) | [github:logseq/logseq](https://github.com/logseq/logseq)

A zettelkasten built directly on top of Org, within Emacs.



[orgroam.com](http://orgroam.com) | [github:org-roam/org-roam](https://github.com/org-roam/org-roam)

# Org-modern

title: Modern Org Example  
author: Daniel Mendler

This example Org file demonstrates the Org elements, which are styled by `org-modern`.

## Headlines

- Second level
- Third level
- Fourth level
- Fifth level

## Task Lists

- Write `org-modern`
- Publish `org-modern`
- Fix all the bugs

## List Bullets

- Dash
- Plus
- Asterisk

## Timestamps

DEADLINE: 2022-03-01 Tue  
SCHEDULED: 2022-02-25 10:00  
DRAIN: 2022-03-01 - 2022-04-01  
TRANGE: 2022-03-01 Tue 16:00-17:00  
TIMESTAMP: 2022-02-21 Mon 18:00  
DREPEATED: 2022-02-26 Sat .+1d/2d+.3d  
TREPEATED: 2022-02-26 Sat 18:00 .+1d/2d

## Blocks

```
src emacs-lisp
;; Taken from the well-structured Emacs config by @oantolin.
;; Take a look at https://github.com/oantolin/emacs-config!
(defun command-of-the-day ()
  "Show the documentation for a random command."
  (interactive)
  (let ((commands))
    (mapatoms (lambda (s)
                (when (commandp s) (push s commands))))
            (describe-function
             (nth (random (length commands)) commands))))
  src
```

```
src calc
taylor(sin(x),x=0,3)
src

results:
: pi x / 100 - 2.85779606768e-8 pi^3 x^3
```

```
src C
printf("a|b|c|d\n");
src

results:
| a | b |
| c | d |
```

## Todo Labels and Tags

- DONE: Write `org-modern` `emacs` `foss` `coding`
- TODO: Publish `org-modern`
- WAIT: Fix all the bugs

## Priorities

- DONE: **HA** Most important
- TODO: **HB** Less important
- CANCEL: **HC** Not that important
- DONE: **100%** **HA** Everything combined `tag` `test`
  - First
  - Second
  - Third

## Tables

N	N <sup>2</sup>	N <sup>3</sup>	N <sup>4</sup>	sqrt(n)	sqrt[4](N)
2	4	8	16	1.4142	1.1892
3	9	27	81	1.7321	1.3161

N	N <sup>2</sup>	N <sup>3</sup>	N <sup>4</sup>	sqrt(n)	sqrt[4](N)
2	4	8	16	1.4142	1.1892
3	9	27	81	1.7321	1.3161

Another lovely Minad package

github:minad/org-modern



`github:andras-simonyi/citeproc-org`

Possibly the most active “Org outside Emacs” effort.



`github:nvim-orgmode/orgmode`



**Org.jl** 🍷

github:tecosaur/Org.jl

**Org.hs** ⌘

github:locasvreis/org-hs

**Tree sitter** 🌳

github:milisims/tree-sitter-org

**Things to look forward to**

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## Continuing work on *Org the format*

- The *Org syntax document* has been completely rewritten
- With continued growth in parsers and tools, it's important to prevent implementation drift
- Submission to the IETF?

# Mailing list management

## Upcoming changes RSS - JSON

Replace Org's C-TAB with C-M-TAB - objection? (9092c289)

## Confirmed bugs RSS - JSON

Summary	Date	Refs
Bug: org-indent-region doesn't restore cursor position when org-src-tab-acts-natively is t [9.1.9]	2020-09-04 10:09	8
eldoc recursion error	2020-09-11 04:09	7
Adaptive Org faces in headings?	2020-09-09 08:09	6
variable-pitch-mode misaligns org-mode heading tags	2020-09-09 08:09	4
Bug: Babel+R handles spaces wrongly in tables [9.3.6]	2020-09-07 04:09	4
tags-todo agenda should not ignore DONE items	2020-09-06 07:09	4
Bug: Moving org-inline-tasks produces error message [9.3.6]	2020-09-05 10:09	3
Statistic cookies for headings and list items	2020-06-01 13:06	3
Delay all occurrences for a heading scheduled with repeater not work.	2020-09-10 12:09	2
Bug: org-html-export-to-html doesn't handle .gpg files properly [9.3.6]	2020-06-02 12:06	2
Bug: Org bold emphasis gobbles leading stars on next headline [9.3.7]	2020-09-06 07:09	2
Bug: Appointments duration and effort sums in agenda column view [9.3.7]	2020-09-07 05:09	2
Bug: Fortification: Heading following a comment	2020-09-04 10:09	1
Bug: Repeating tasks no longer appearing on future dates in the agenda [9.3.6]	2020-02-29 02:02	1

## Help requested RSS - JSON

No help has been requested so far.

## Further engraving

- `engrave-faces` has been recently integrated with  $\text{\LaTeX}$  export
  - Think `htmlize`, but generalised to export code fontification to many formats
- It *currently* contains the functionality needed to apply to HTML and ASCII exports too
- It has the foundations to provide syntax highlighting for other formats too, e.g. ODT

*This Month in Org* (TMiO) has been greatly impeded but an evaporation of free time.

It's not gone! However the title may continue to be more aspirational than descriptive

End

*That's all Folks!*