

# Org Mode

## Or How Emacs Took Over Zach's Life


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# Outline

- 1 Introduction
- 2 Org-mode basics
- 3 Org-mode the cool stuff
- 4 Using org mode
- 5 Common plugins to use with Org
- 6 Misc
- 7 Summary

# What is org-mode?

```
* Introduction
** What is org-mode?
    #+ATTR_LATEX: :width .5\textwidth
    file:basic-org.png
    
    - An outlining format
    - Markup language similar to markdown (Beorg on org vs Markdown)
    - A "major mode" in Emacs What is a major mode? (And in other editors)
```


- An outlining format
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# Why care about org-mode?

- Let me tell you a story about Evernote. . .
- Org is designed as a markup language with plugins and systems
- I use org mode to. . .
  - Plan projects
  - Take meeting notes
  - Manage projects and tasks
  - Organize research
  - Write papers
  - Write this presentation

# Outlining syntax

```
* Org-mode basics
** Outlining syntax

#+ATTR_LATEX: :width .8\textwidth

- The star (*) is the headline
- Add more stars to increase the header

** Markdown-ish composing syntax
- Use the dash (-) to begin a bulleted list
- You can create checklists with [ ]
- Use This is basically 90% of what I use
```

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# Markdown-ish composing syntax

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# Task management

```
◎ Org-mode the cool stuff
  ○ Task management
    * TODO Write this section
    * TODO Stop procrastinating
    * TODO Solve world hunger
```

- You can add a "state" to a header by pressing <C-c><C-t>
  - This will put "TODO" next to it by default
  - You can add/remove/change states in configuration!
    - Ex: CONFIRM ON STAGING, MERGE TO TRUNK, IN PROGRESS,
    - This is how I track tickets in my notes!

# Scheduling

- If you highlight a headline and press <C-s> you can assign a date!
- If you highlight a headline and press <C-d> you can set a deadline!



# The Almighty Agenda

- Okay, this is all well and good, but what good is scheduling in text files?
- The agenda will parse what files you tell it and assemble a day-by-day agenda!
  - This is one of the most highly customizable parts of org
  - You can search for specific tags, specific projects, it's fully scriptable. You can even write your own implementation entirely if you need something weird.

# Capture templates

```
("j"  
  "Jira ticket"  
  entry  
  (file ,(concat org-directory inbox-org))  
  ,(concat "* TODO %? %\\1  
  [" jira-link "%^{ticket} [%\\1]""))))
```

- Capture templates can be pulled up from anywhere in Emacs
- Someone interrupt you? hit a keybinding and have a template to take input!
- You can customize the template with prompts
- You can customize where it gets stored
- Examples

- Essentially, this is a mechanism for taking stuff from one org tree and putting it into another
- I use this constantly

# My org flow

- Conceptually, I have an inbox file, where all my capture templates go
- As I go about my day, I will use capture templates to note various things
- At some interval, I will parse my inbox file and put things in a more "permanent" place
- As I get tickets, they get noted
- In my main task file, I have projects laid out, and statuses for various ticket/task states

# Org files

- [inbox.org](#)
  - Entry point for everything
- [notes.org](#)
  - Inbox for notes
- [projects.org](#)
  - Documentation for all the products/projects I work on
  - As I brainstorm things, this is where they wind up going
- [todo.org](#)
  - A header for each of my projects
  - Contains tasks

- I am a reiligious Vim-er
- Evil implements Vim inside Emacs.
- I literally can not imagine using Emacs without Evil.

- Strange plugin, don't worry about it

# Org-brain

PINNED: [CSC591](#)

index

[gaming](#) [mathematics](#) [philisophy](#) [software](#) [university](#)

--- Resources -----

- [Wikipedia on Set Theory](#)

- Mind-mapping in org mode!
- Not even going to try to explain this one, but it's probably my favorite



# Magit

- (like magic)
- A git plugin for emacs!

- org-export lets you export org mode to other markups
- You can export to...
  - HTML
  - Markdown
  - ODT
  - $\text{\LaTeX}$  (if installed)
- There are plugins to export to a ton of different formats!

# How to configure

- In your home directory, you will have a .emacs file
- If no .emacs file, look for ~/.emacs.d/init.el
- The configs are all done in Elisp

# Tutorials

- David O'Toole's Org tutorial
- Youtube playlist of stuff I found useful when learning
- Emacs Cast

- GNU Emacs
- DOOM Emacs
- Spacemacs
- My configs (customized Spacemacs, but I'll go into this)

# So why does this matter?

- It's all plain text
- It's portable
- There are mobile apps!