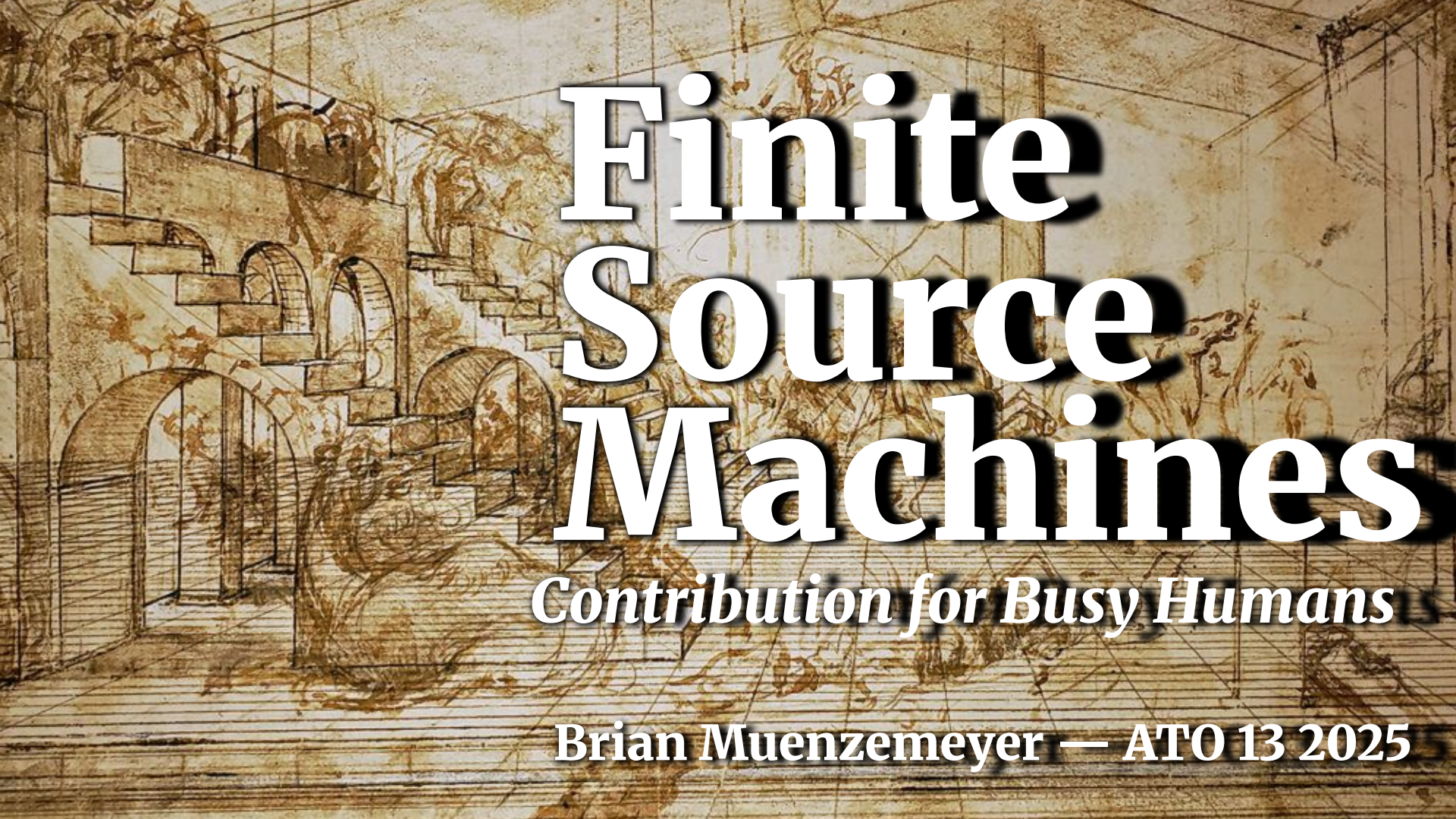




Finite Source Machines

Contribution for Busy Humans

Brian Muenzemeier — AT0 13 2025



PRINCIPAL ENGINEER

**LEADER,
OPEN SOURCE
PROGRAM OFFICE**

[@brianmuenzenmeyer.com](https://brianmuenzenmeyer.com) 

[@bmuenzenmeyer](https://github.com/bmuenzenmeyer) 

[@me](#) 



APPROACHABLE OPEN SOURCE

Brian Muenzenmeyer
Foreword by Brad Frost

Node.js — Run JavaScript Everywhere

https://nodejs.org/en

nodejs

LearnAboutDownloadBlogDocsContributeCertification

Start typing...

⌘ K🌙🔍🔄

Run JavaScript Everywhere

Node.js® is a free, open-source, cross-platform JavaScript runtime environment that lets developers create servers, web apps, command line tools and scripts.

Get Node.js®

Get security support
for EOL Node.js versions



Node.js is proudly supported by the partners above and more.

Create an HTTP ServerWrite TestsRead and Hash a FileStreams PipelineWork with Threads

```
1 // server.mjs
2 import { createServer } from 'node:http';
3
4 const server = createServer((req, res) => {
5   res.writeHead(200, { 'Content-Type': 'text/plain' });
6   res.end('Hello World!\n');
7 });
8
9 // starts a simple http server locally on port 3000
10 server.listen(3000, '127.0.0.1', () => {
11   console.log('Listening on 127.0.0.1:3000');
12 });
13
14 // run with `node server.mjs`
```

JavaScriptCopy to clipboard

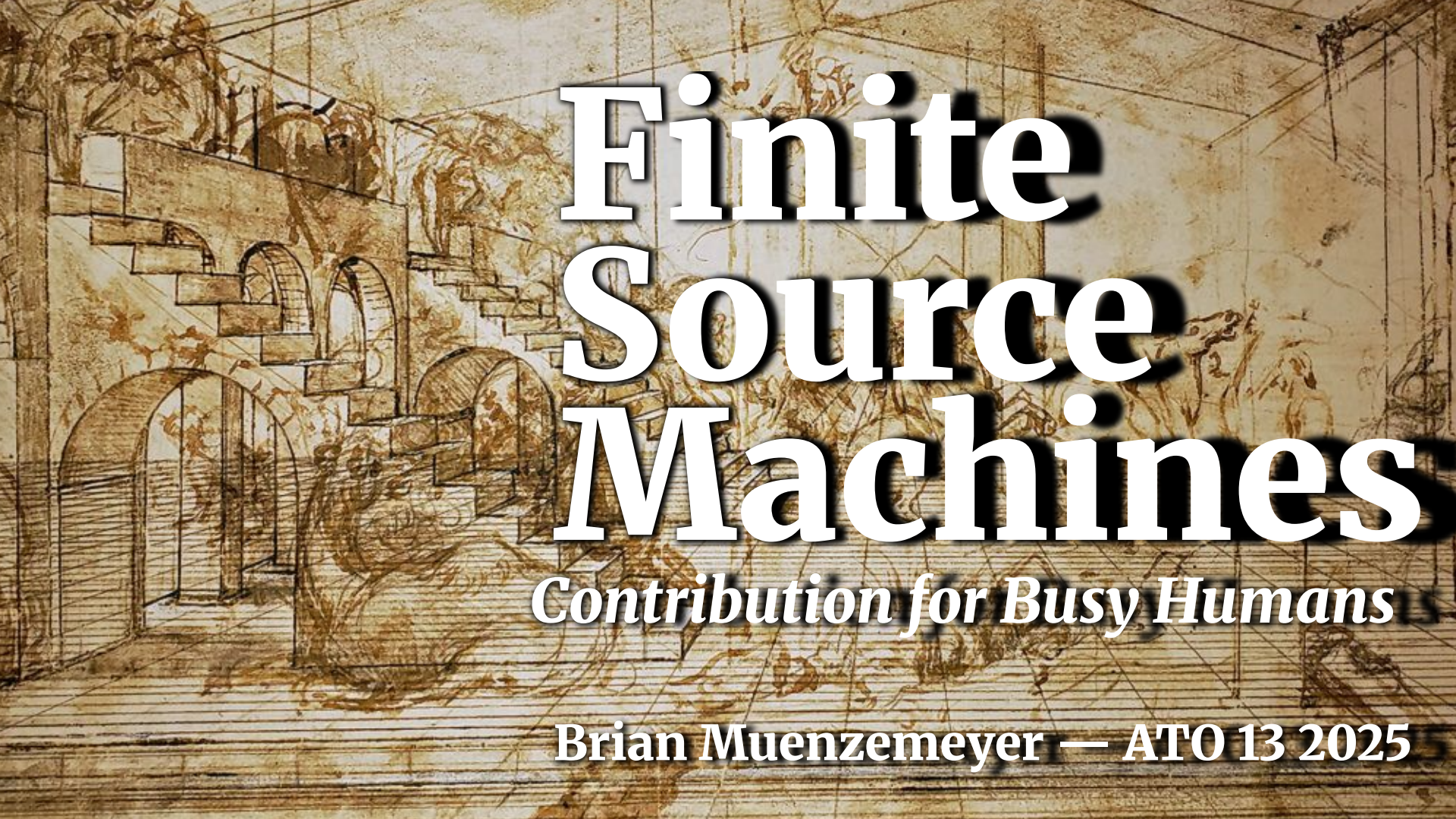
Learn more what Node.js is able to offer with our Learning materials.

v22.20.0Latest LTSv24.9.0Latest Release

Trademark PolicyPrivacy PolicyCode of ConductSecurity Policy

© OpenJS Foundation





Finite Source Machines

Contribution for Busy Humans

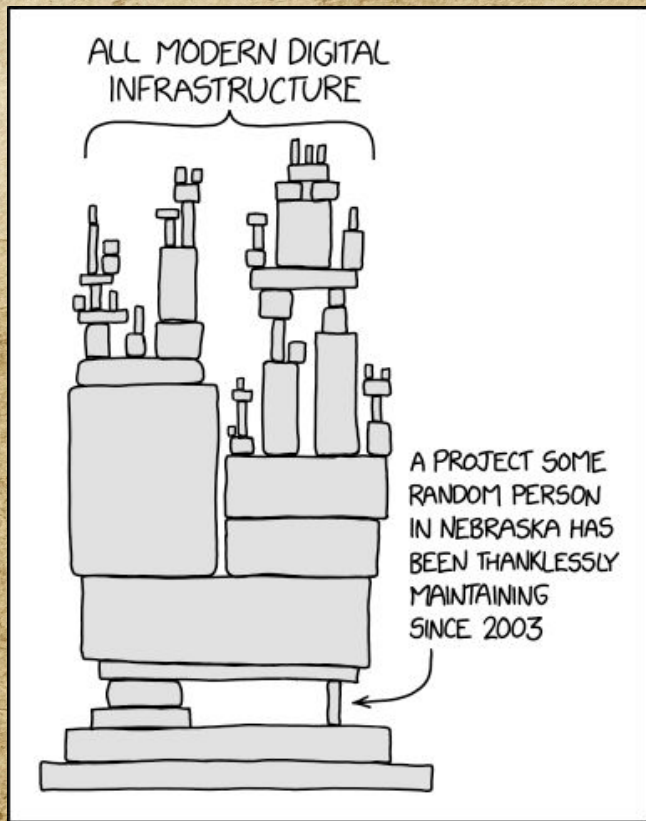
Brian Muenzemeier — AT0 13 2025

\$9,000,000,000,000

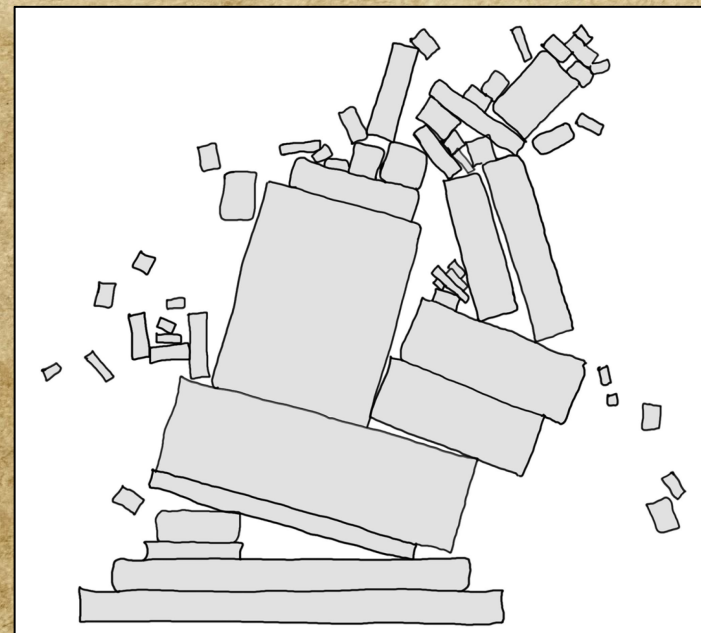
demand-side value of open source software



Harvard
Business
School

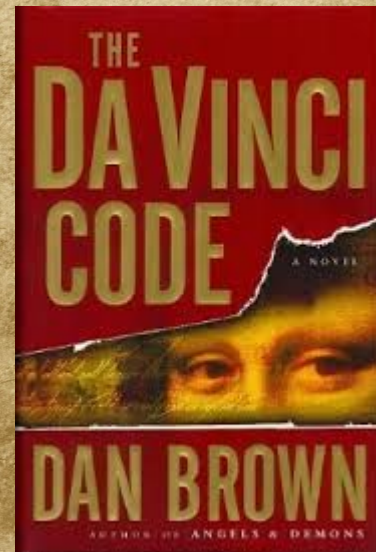
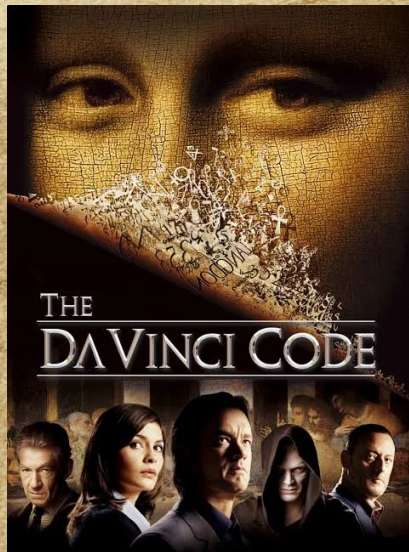


Randal Munroe
xkcd.com/2347



Adam Leventhal
mastodon.social/@ahl/112243122623783002

**CRITICAL
FRAGILE**





Prado



Islesworth



Hermitage



Islesworth



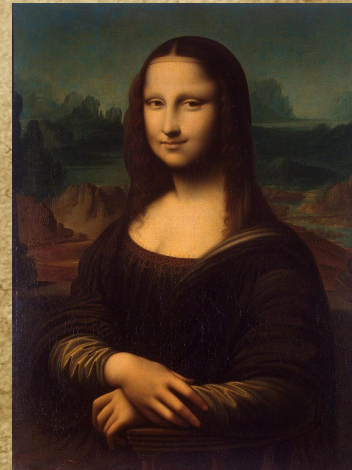
Raphael



Louvre



Prado



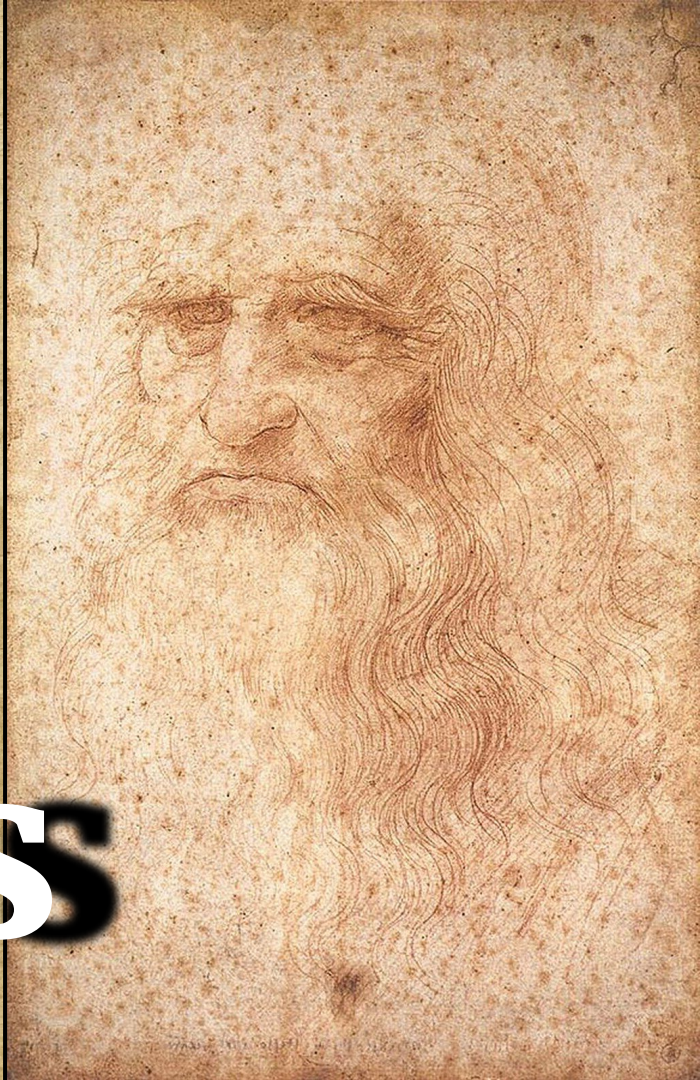
Hermitage



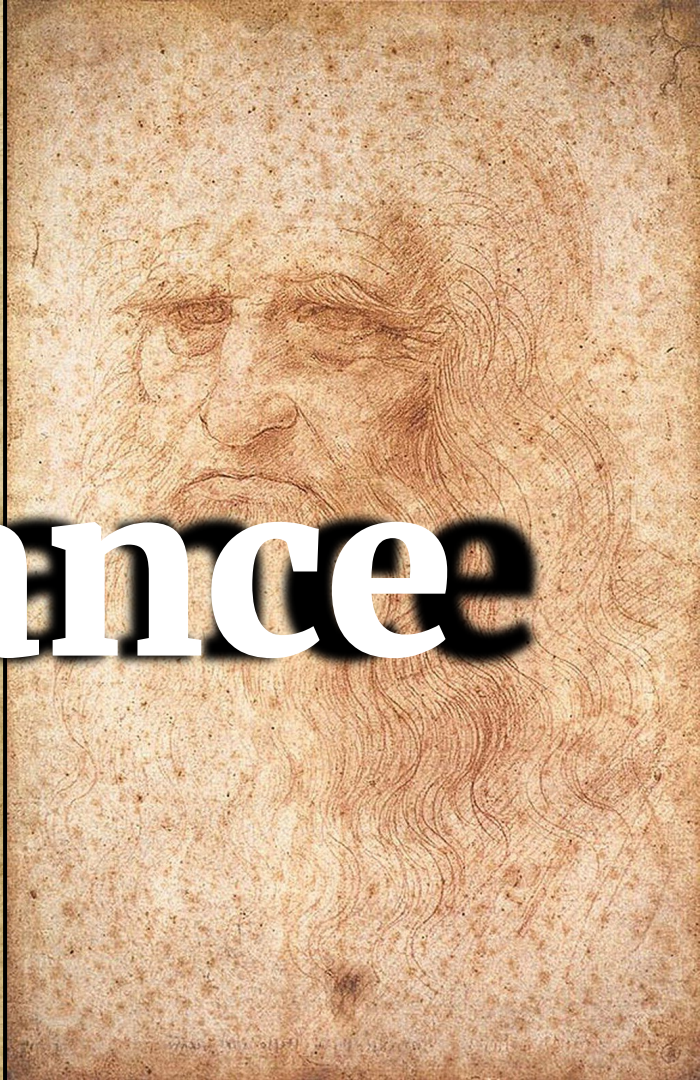
Leonardo Da Vinci



Jack of All Trades



“Renaissance Man”



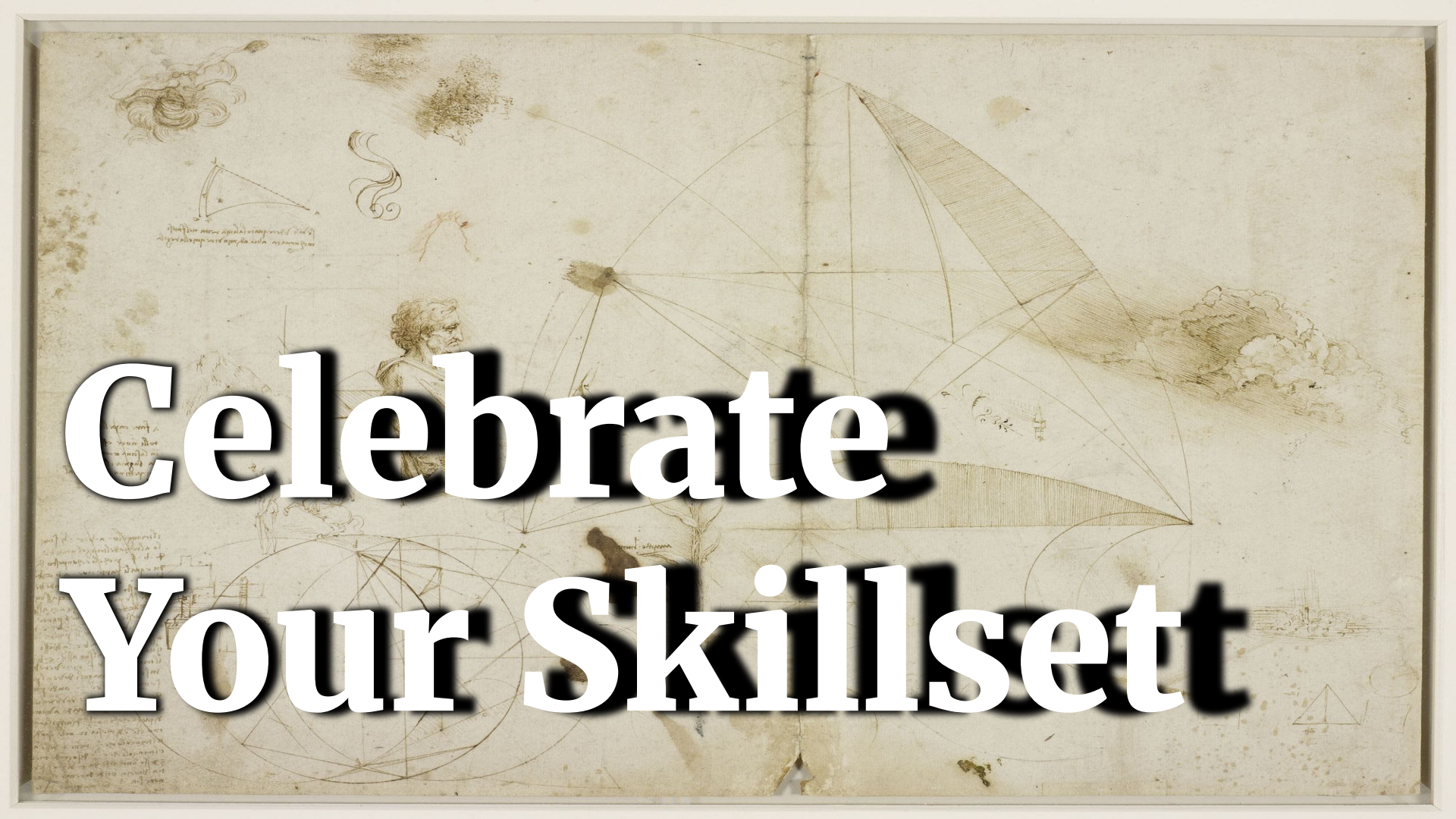
Polymath



Busy

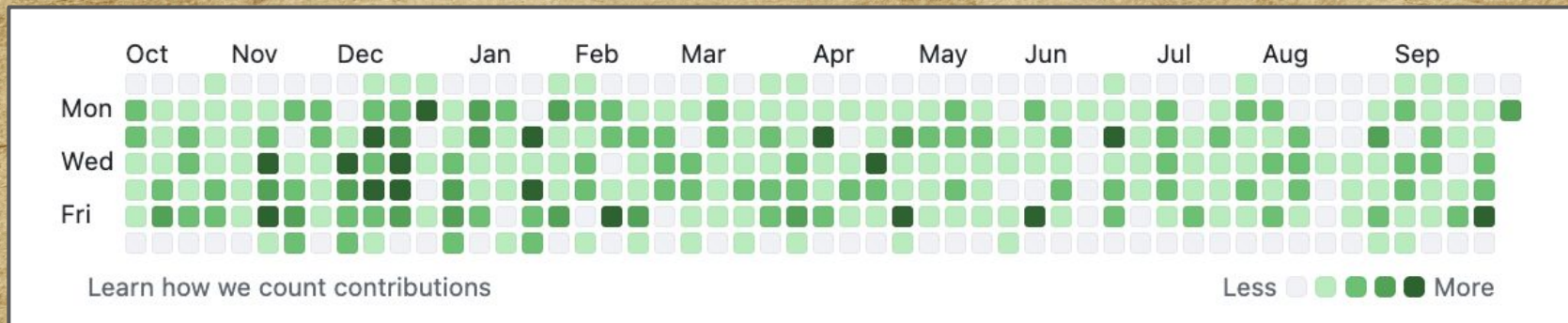




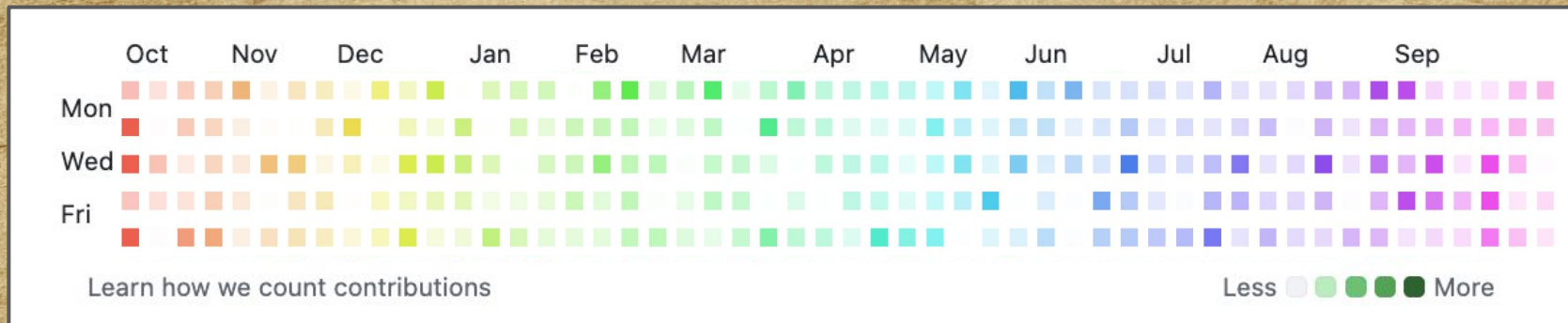
The background of the image is a reproduction of Leonardo da Vinci's famous 'Vitruvian Man' drawing. It shows the man inscribed within a circle and a square, with various geometric lines and proportions. The drawing is aged and has some stains. Overlaid on this is the text 'Celebrate Your Skillset' in a large, white, sans-serif font with a black drop shadow.

**Celebrate
Your Skillset**

Celebrate Your Skillset... And I Don't Mean This!



Celebrate Your Skillset... In All Its Range



Spectrum of Engagement

Consume

Contribute

Maintain

Empower



- Read
- Evaluate
- Use
- Test
- Integrate

- Report
- Review
- Discuss
- Patch
- Enhance
- Fork

- Plan
- Architect
- Prioritize
- Orchestrate
- Recruit

- Motivate
- Mentor
- Educate
- Fund

Work...

In a

XX 1 1



Play a role



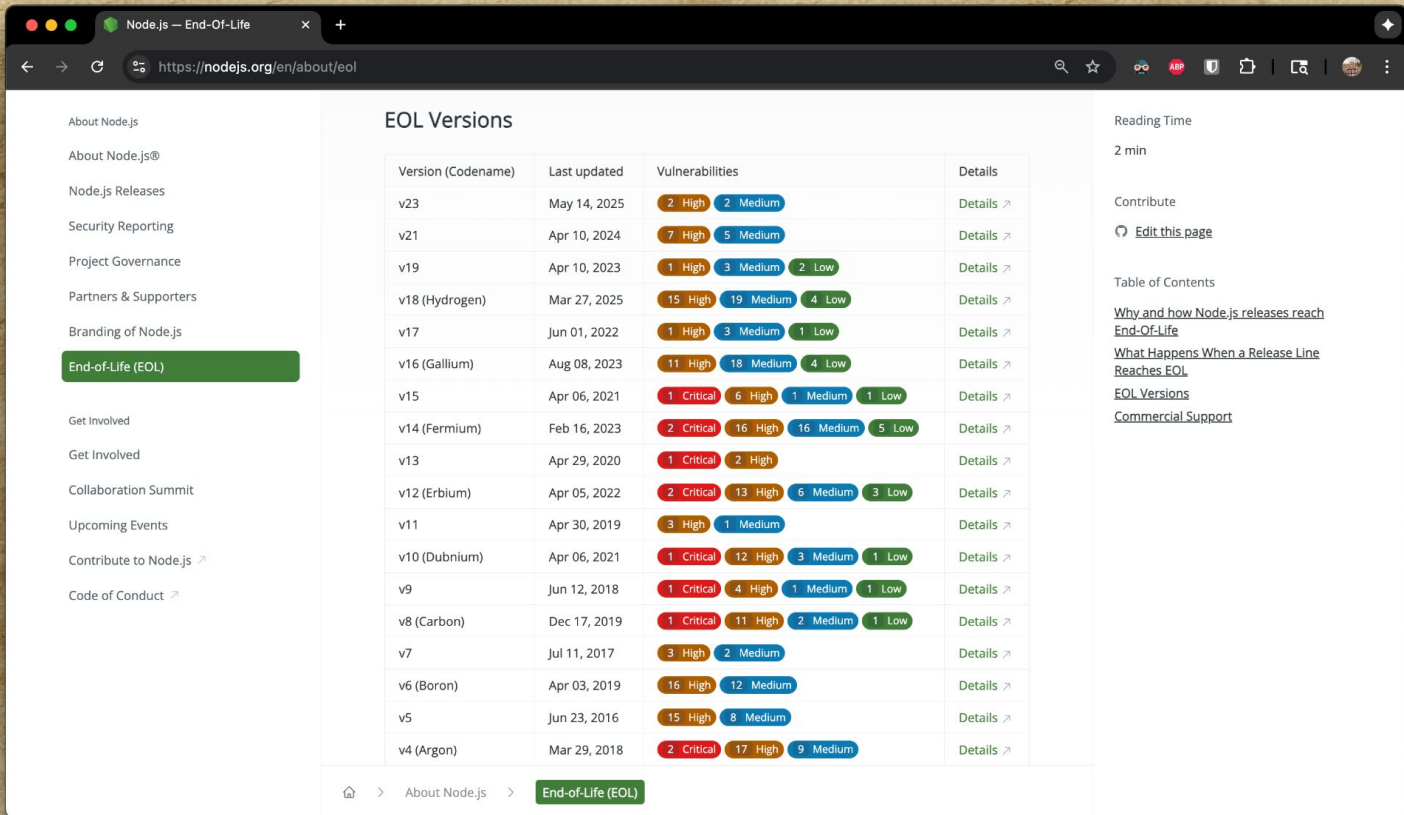
Tobias and the Angel



The Bapt



Example: End of Life Feature Development



The screenshot shows the Node.js End-of-Life (EOL) page. The left sidebar contains navigation links, with 'End-of-Life (EOL)' highlighted. The main content area is titled 'EOL Versions' and displays a table of Node.js versions from v4 to v23. Each row lists the version, its codename, the last update date, and a breakdown of vulnerabilities by severity (Critical, High, Medium, Low). The right sidebar includes a 'Reading Time' of 2 minutes, a 'Contribute' link, and a 'Table of Contents' with links to related articles.

Version (Codename)	Last updated	Vulnerabilities	Details
v23	May 14, 2025	2 High 2 Medium	Details ↗
v21	Apr 10, 2024	7 High 5 Medium	Details ↗
v19	Apr 10, 2023	1 High 3 Medium 2 Low	Details ↗
v18 (Hydrogen)	Mar 27, 2025	15 High 19 Medium 4 Low	Details ↗
v17	Jun 01, 2022	1 High 3 Medium 1 Low	Details ↗
v16 (Gallium)	Aug 08, 2023	11 High 18 Medium 4 Low	Details ↗
v15	Apr 06, 2021	1 Critical 6 High 1 Medium 1 Low	Details ↗
v14 (Fermium)	Feb 16, 2023	2 Critical 16 High 16 Medium 5 Low	Details ↗
v13	Apr 29, 2020	1 Critical 2 High	Details ↗
v12 (Erbium)	Apr 05, 2022	2 Critical 13 High 6 Medium 3 Low	Details ↗
v11	Apr 30, 2019	3 High 1 Medium	Details ↗
v10 (Dubnium)	Apr 06, 2021	1 Critical 12 High 3 Medium 1 Low	Details ↗
v9	Jun 12, 2018	1 Critical 4 High 1 Medium 1 Low	Details ↗
v8 (Carbon)	Dec 17, 2019	1 Critical 11 High 2 Medium 1 Low	Details ↗
v7	Jul 11, 2017	3 High 2 Medium	Details ↗
v6 (Boron)	Apr 03, 2019	16 High 12 Medium	Details ↗
v5	Jun 23, 2016	15 High 8 Medium	Details ↗
v4 (Argon)	Mar 29, 2018	2 Critical 17 High 9 Medium	Details ↗

Reading Time
2 min

Contribute
[Edit this page](#)

Table of Contents
[Why and how Node.js releases reach End-Of-Life](#)
[What Happens When a Release Line Reaches EOL](#)
[EOL Versions](#)
[Commercial Support](#)

Home > About Node.js > End-of-Life (EOL)

Detour: Data Integrity Analysis and Entry

Update all known unknowns #1502

Merged RafaelGSS merged 5 commits into `nodejs:main` from `bmuellenmeyer:main` on Jul 22

Conversation 14 · Commits 5 · Checks 8 · Files changed 63

bmuellenmeyer commented on Jul 21

closes #1501

In all, I hope this better reflects the security environment and communication we are proposing within [nodejs/nodejs.org#7990](https://nodejs.org#7990)

CVE Severity Assignment

The following table provides severity ratings for Node.js CVEs that were marked as "unknown" and their new severity, based on information from the National Vulnerability Database (NVD). In cases when the their was conflict, NVD was used, not GitHub.

Checked	CVE Number	NVD Link	Severity
✓	CVE-2017-1000381	NVD Link	High (7.5)
✓	CVE-2017-3731	NVD Link	High (7.5)
✓	CVE-2017-3732	NVD Link	Medium (5.9)
✓	CVE-2016-7055	NVD Link	Medium (5.9)
✓	CVE-2016-9551	NVD Link	! Unknown
✓	CVE-2016-9840	NVD Link	High (8.8)
✓	CVE-2016-5180	NVD Link	Critical (9.8)
✓	CVE-2016-5172	NVD Link	Medium (6.5)
✓	CVE-2016-6304	NVD Link	High (7.5)
✓	CVE-2016-6305	NVD Link	High (7.5)

Reviewers

- RafaelGSS ✓
- mhdawson ✓
- vdeturckheim ✓

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

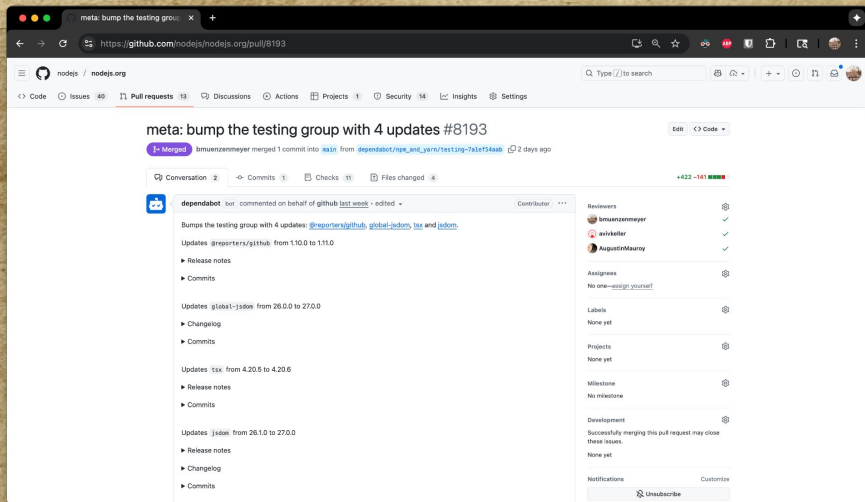
No milestone

Development

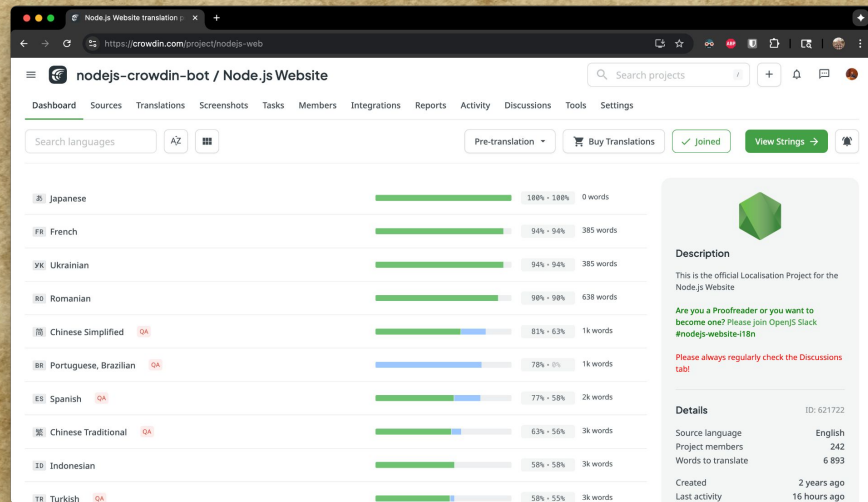
Successfully merging this pull request may close these issues.

- [Single sign-on](#) to see issues within the target organization.
- [Single sign-on](#) to see issues within the TGT Labs organization.
- [Single sign-on](#) to see issues within the k8Guard organization.

More examples: Tackle the tasks that interest you

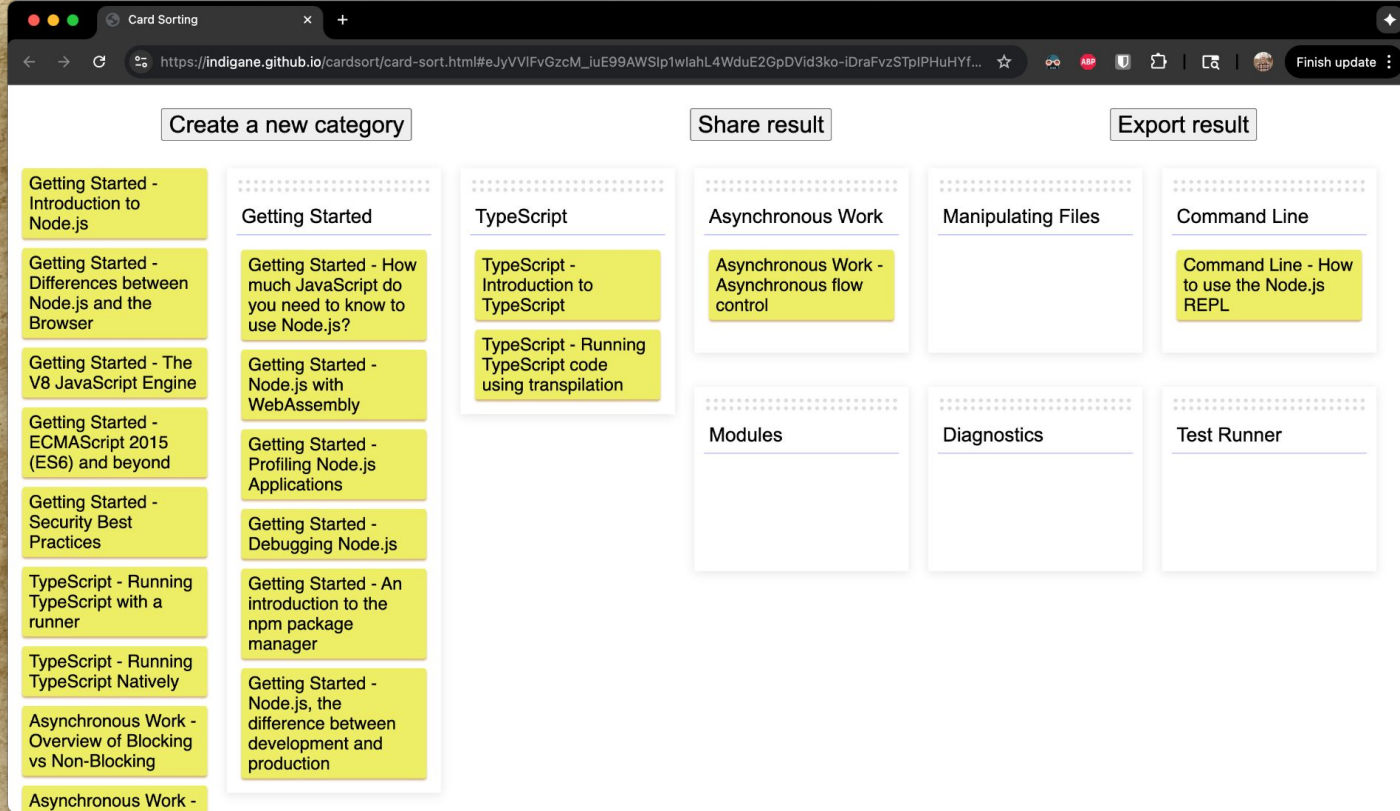


Dependency Update Testing

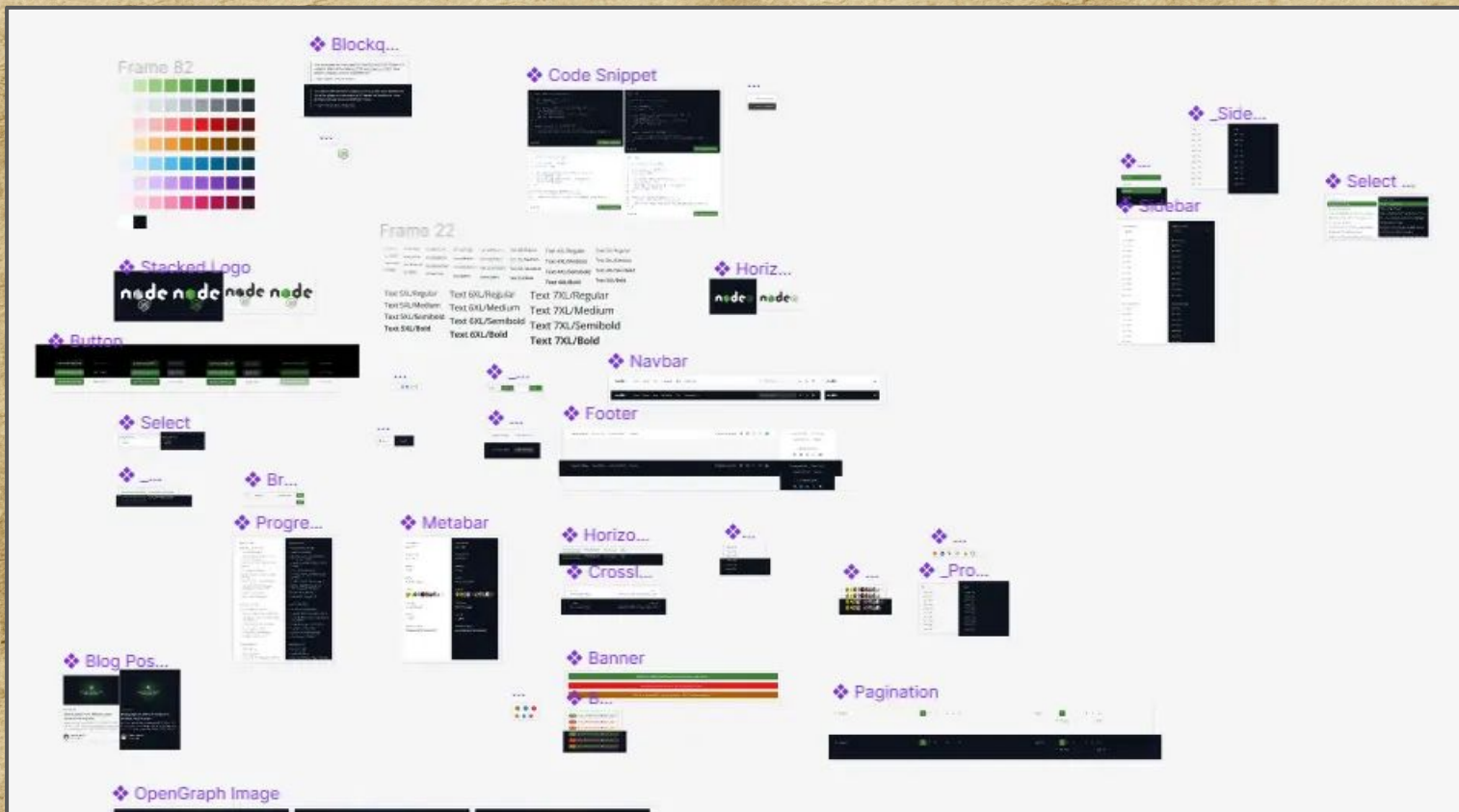


Internationalization

Example: Information Architecture Exploration



Figma Breakdown



Figma Breakdown...to Content Inventory...

Nodejs.org Component Inventory

File

Edit

View

Insert

Format

Data

Tools

Extensions

Help

Figma Breakdown...to Content Inventory...to Issue

The screenshot shows a GitHub issue page for the Node.js project. The issue is titled "Create Breadcrumbs Component #5914" and is marked as "Closed". It was opened by user "bmuenzenmeyer" on September 29, 2023. The issue description asks for a new breadcrumb component and includes a link to the Node.js website redesign. A "Before You Start..." section lists prerequisites like reading the Contributor's Guide and reviewing the technologies used. The "Details" section provides a step-by-step guide for creating the component, including directory structure, styling, and component creation. The right sidebar shows metadata like assignees, labels (good first issue, hacktoberfest, help wanted, website redesign), type, projects, milestones, relationships, and development status.

Create 'Breadcrumbs' Comp x +

https://github.com/nodejs/nodejs.org/issues/5914

nodejs / nodejs.org

Type (/) to search

< Code Issues 41 Pull requests 13 Discussions Actions Projects 1 Security 14 Insights Settings

Create Breadcrumbs Component #5914

Edit New Issue

Closed #5928

bmuenzenmeyer opened on Sep 29, 2023 Member

Create a `Breadcrumbs` component using the new [figma design \(direct link\)](#).

[Read more about the Node.js Website redesign](#)

Before You Start...

- Use the [Contributor's Guide](#) to learn how to [setup your environment](#), run [available commands](#), and construct [proper commits](#).
- Review the [technologies used](#) when building the site, and [why they were chosen](#).
- Review the [component creation guide](#) to follow our standards.
- Review the [translation guide](#), especially how to [add new keys](#).

Details

Learn > Getting Started > Introduction to Node.js

? Not sure where to start breaking down the figma? [Read this short guide](#)

- Create a new directory called `Breadcrumbs` within the [Common directory](#) that contains all the new code. (This location may change in the future.)
- Use the new tailwind color and typography system to assign properties. For example, the active link uses Green/600 per the figma.
- The `@heroicons/react` module has the icons `chevron-right` and `home` available for use
- Add a storybook story file `components/common/Breadcrumbs/index.stories.tsx` which exercises each of the component's states.

Assignees: No one - [Assign yourself](#)

[Assign to Copilot](#)

Labels: [good first issue](#) [hacktoberfest](#) [help wanted](#) [website redesign](#)

Type: No type

Projects: No projects

Milestone: No milestone

Relationships: None yet

Development: [Code with agent mode](#)

feat(components): add 'Breadcrumbs' component
nodejs/nodejs.org



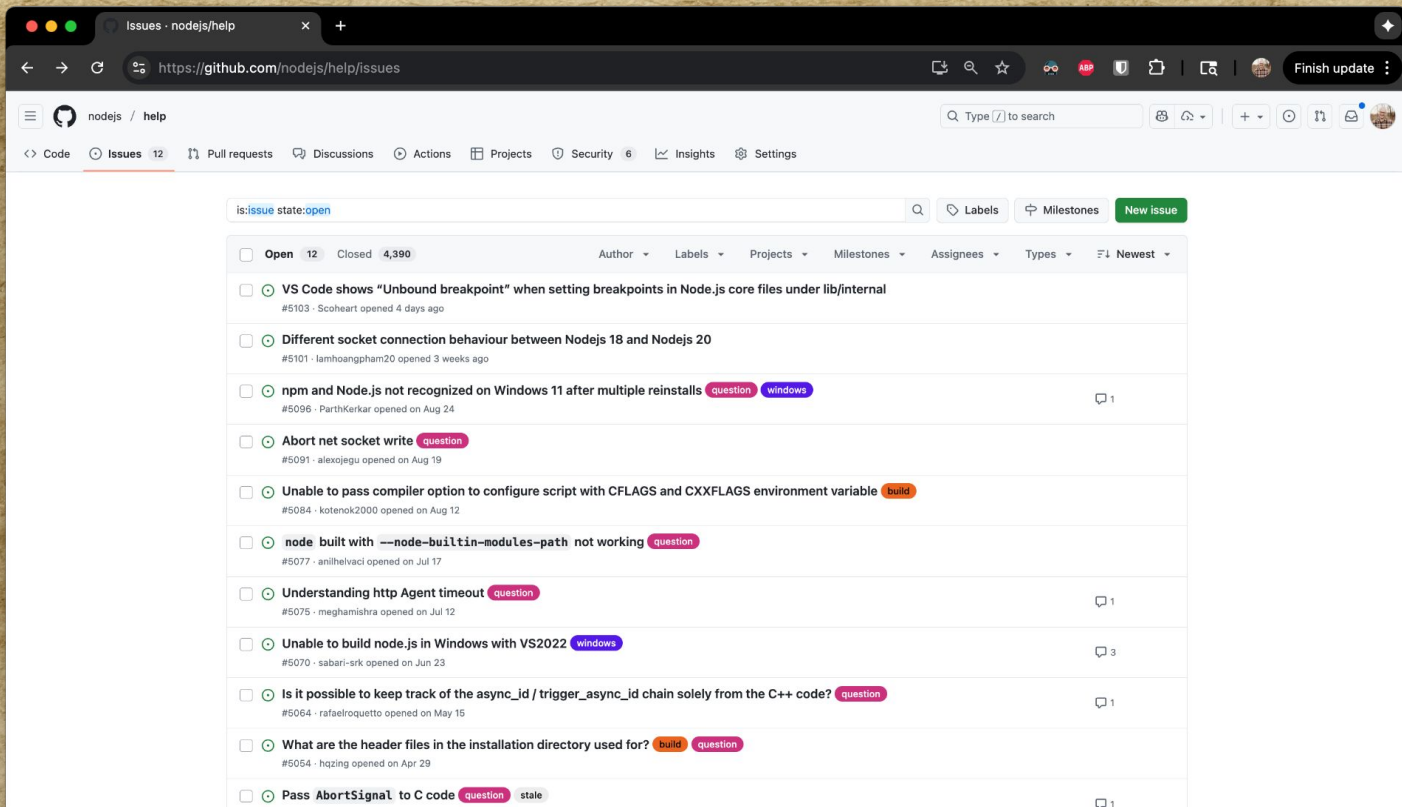
Observe
Relentlessly

The typo as psoterchild of entry

4 README.md

```
@@ -51,7 +51,7 @@ All of the Enhance api is available via `window.ejs` or just `ejs`. From `ejs`,  
51 51 - `hasClass`: check whether an element has a particular class or not. Returns a boolean result. Example:  
52 52  
53 53 // check if HTML element has class of "ie8"  
54 - ej.s.hasClass( document.documentElement, "home" );  
54 + ej.s.hasClass( document.documentElement, "ie8" );  
55 55 --> true | false
```

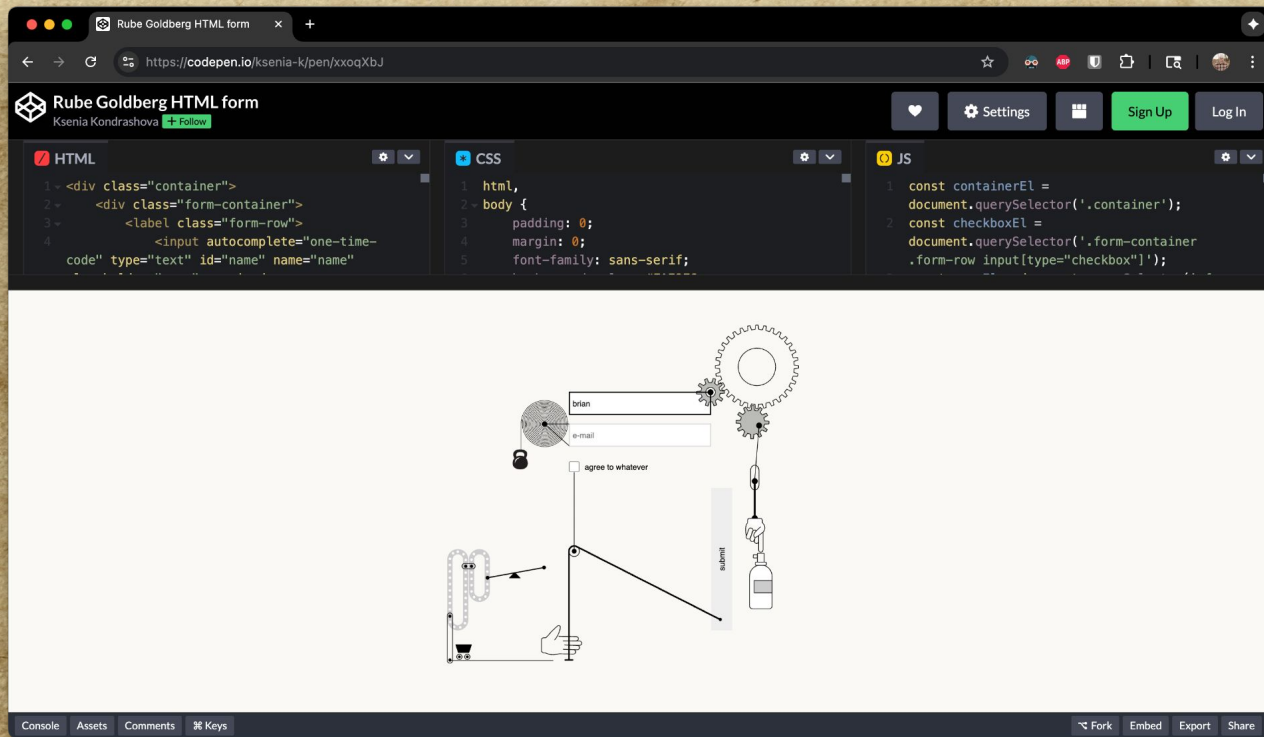
Triage, corroborate, and help others





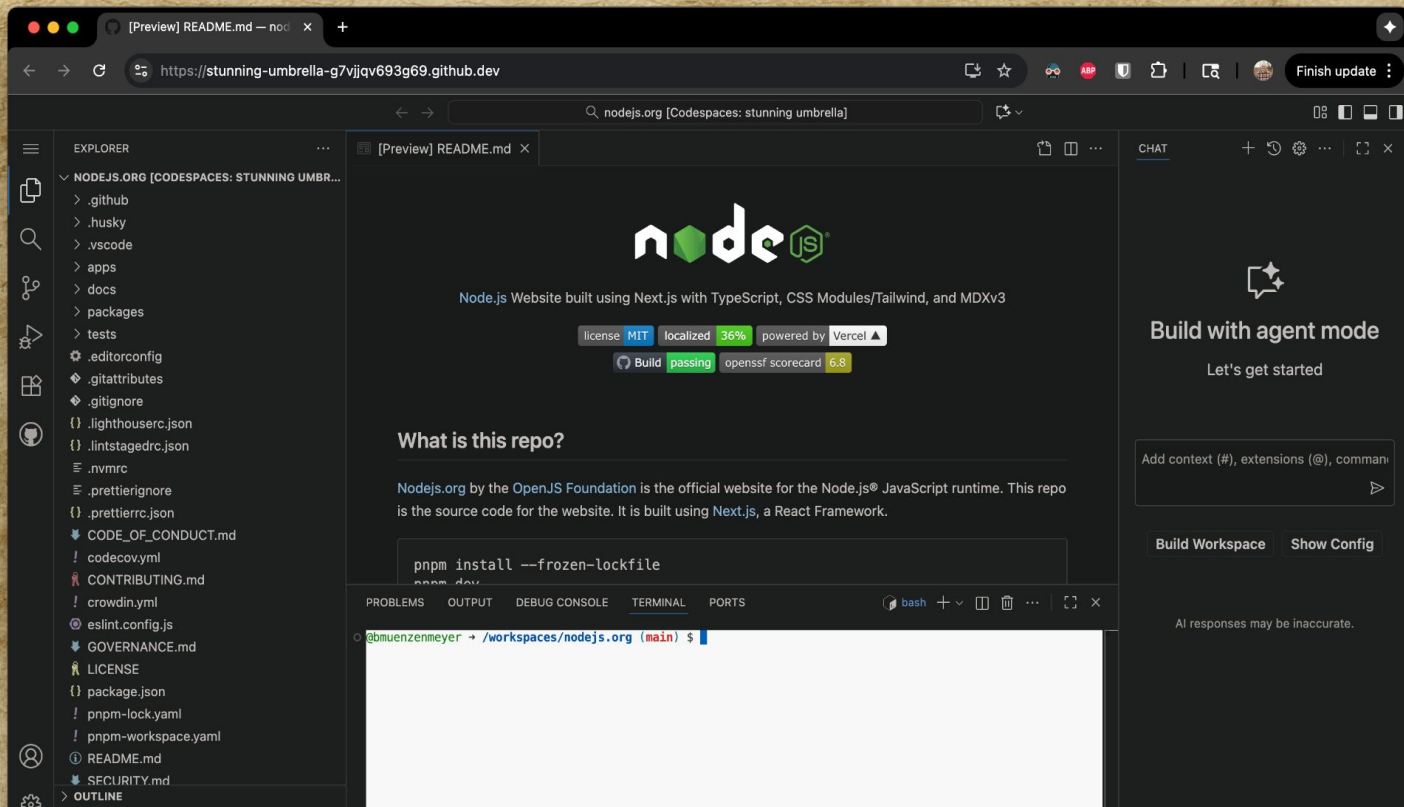
Practice

Online coding options lower barrier to entry



<https://codepen.io/ksenia-k/pen/xxoqXbJ>

Entire environments in your browser



REPLs to see before install (Read, Eval, Print, Loop)

The screenshot shows the AST Explorer web application in a browser. The address bar displays `https://astexplorer.net`. The interface is divided into two main panels: a code editor on the left and a tree view on the right.

Code Editor (Left Panel):

```
1 /**
2  * Paste or drop some JavaScript here and explore
3  * the syntax tree created by chosen parser.
4  * You can use all the cool new features from ES6
5  * and even more. Enjoy!
6  */
7
8 let tips = [
9   "Click on any AST node with a '+' to expand it",
10
11   "Hovering over a node highlights the \
12    corresponding location in the source code",
13
14   "Shift click on an AST node to expand the whole subtree"
15 ];
16
17 function printTips() {
18   tips.forEach((tip, i) => console.log(`Tip ${i}:` + tip));
19 }
20
```

Below the code editor, there is a section for configuration and a "Prettier" button. The configuration includes a dropdown for the parser (set to "babel") and a checkbox for "Transform" (checked). The "Prettier" button is also visible.

Tree View (Right Panel):

The tree view displays the AST structure of the code. It is currently showing the "File" node, which is a "Program" node. The "Program" node has a "body" array containing two elements: a "VariableDeclaration" node and a "FunctionDeclaration" node. The "VariableDeclaration" node represents the `let tips = [...]` statement, and the "FunctionDeclaration" node represents the `function printTips() { ... }` function.

The tree view also includes a "JSON" tab and a "Tree" tab. The "Tree" tab is currently selected. The "JSON" tab shows the raw JSON representation of the AST. The "Tree" tab shows a visual representation of the AST structure.

A detailed pencil sketch of a landscape, likely a sky or a body of water, characterized by dense, swirling, and textured lines. The overall tone is sepia or aged. In the lower-left foreground, the text "Come Up For Air" is superimposed in a large, white, serif font with a black drop shadow. In the bottom right corner, there is a small, circular artist's monogram.

**Come Up
For Air**

Don't Lick the Cookie!

https://www.redhat.com/en/blog/dont-lick-cookie

 **Red Hat**

AI ▾ Hybrid cloud ▾ Products ▾ Training ▾ Learn ▾ Partners ▾

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 ▾

 ▾

Red Hat Blog By product ▾ By topic ▾

Don't Lick the Cookie!

September 19, 2018 | [Dave Neary](#) | 3-minute read

[Open source communities](#)

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The phrase "[cookie licking](#)" has become popular in recent years to define a pattern which can be problematic in communities. Its meaning comes from a story: Mom makes a plate of cookies, and sets them on the table for the family. After everyone has had their cookies, there is one left on the plate. The cheeky child of the family wants to have the last cookie later, but has no confidence it will still be there when she comes back, so she grabs the cookie, licks it, and puts it back on the plate, secure in the knowledge that no-one else will want to eat it.

Cookie-licking can take many forms in community projects. The most common symptom is what the

Search all Red Hat blogs

Search

More like this

Blog post

[Red Hat and O-RAN Alliance accelerating cloud adoption at the Edge](#)

feat(infra): adopt `pnpm` by | x +

https://github.com/nodejs/nodejs.org/pull/7662

nodejs / nodejs.org

Type to search

<> Code Issues 40 Pull requests 13 Discussions Actions Projects 1 Security 14 Insights Settings

feat(infra): adopt pnpm #7662

Edit <> Code

👤 Merged ovflowd merged 6 commits into main from pnpm on May 2

💬 Conversation 97 ↗ Commits 6 📄 Checks 6 📁 Files changed 29 +14,099 -21,773

bmuenzenmeyer commented on Apr 17 • edited by avivkeller Member

- ✓ next.config.js, next-intl, i18n work — [commit](#)
- ✓ pnpm build — import errors resolved, packages cleaned up
 - ✓ pnpm build when installed with --prod
- ✓ pnpm dev
 - ✓ pnpm dev when installed with --prod
- ✓ pnpm test - subpath import work needed
- ✓ pnpm test:ci
- ✓ pnpm lint
- ✓ pnpm lint:fix
- ✓ pnpm prettier
- ✓ pnpm prettier:fix
- ✓ pnpm format
- ✓ pnpm storybook
- ✓ pnpm storybook:build
- ✓ pnpm check-types
- ✓ pnpm scripts:release-post
- ✓ Vercel Deployments
- ☐ npm-use-cases

Tasks from Vote

- ✓ Add [pnpm](#) to README and docs
- ✓ Add [package-lock.json](#) to [.gitignore](#)
- ✓ Use [pnpm](#) in CI

Reviewers

avivkeller

bjohansebas

ovflowd

MattiPv4

AugustinMauroy

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

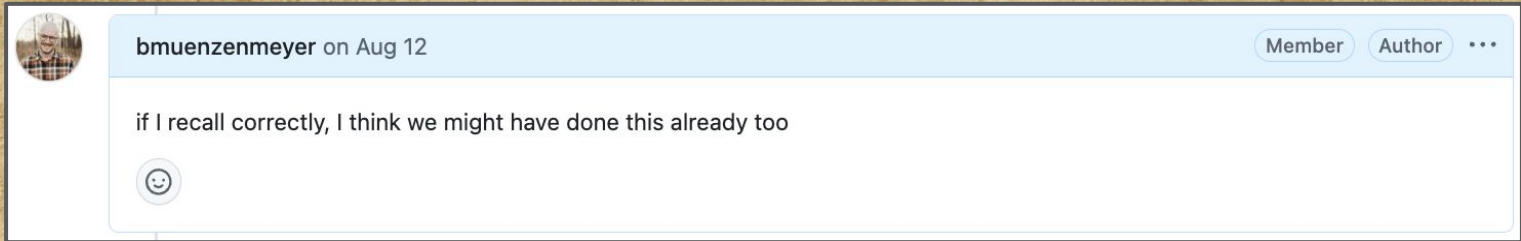
Successfully merging this pull request may close these issues.

None yet

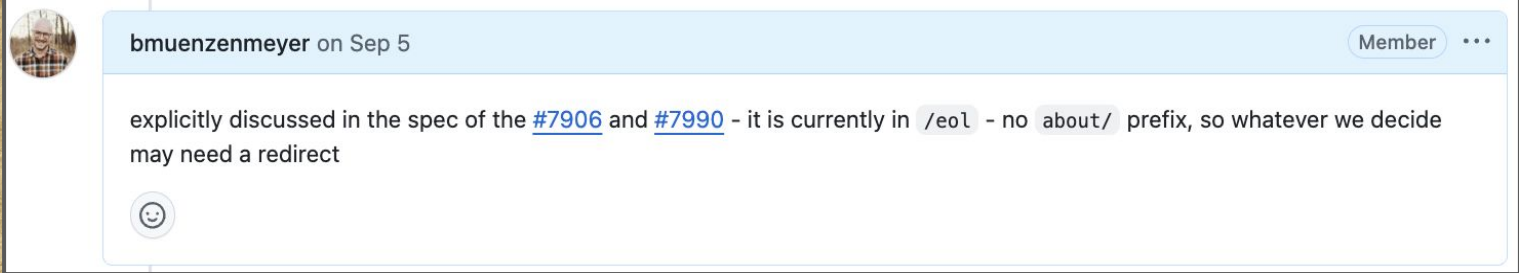
Bring New to Conversation



XXX Passive Voice



Context and Recommendation



Recommendation and Solution



bmuenzenmeyer on Nov 21, 2024 · edited by bmuenzenmeyer

Edits ▾ Member ...

👍 for adding a more prominent link to <https://github.com/nodejs/node/blob/main/CONTRIBUTING.md>

I've created [#7274](#) to show what that would look like.

😊

  **bmuenzenmeyer** mentioned this [on Nov 21, 2024](#)

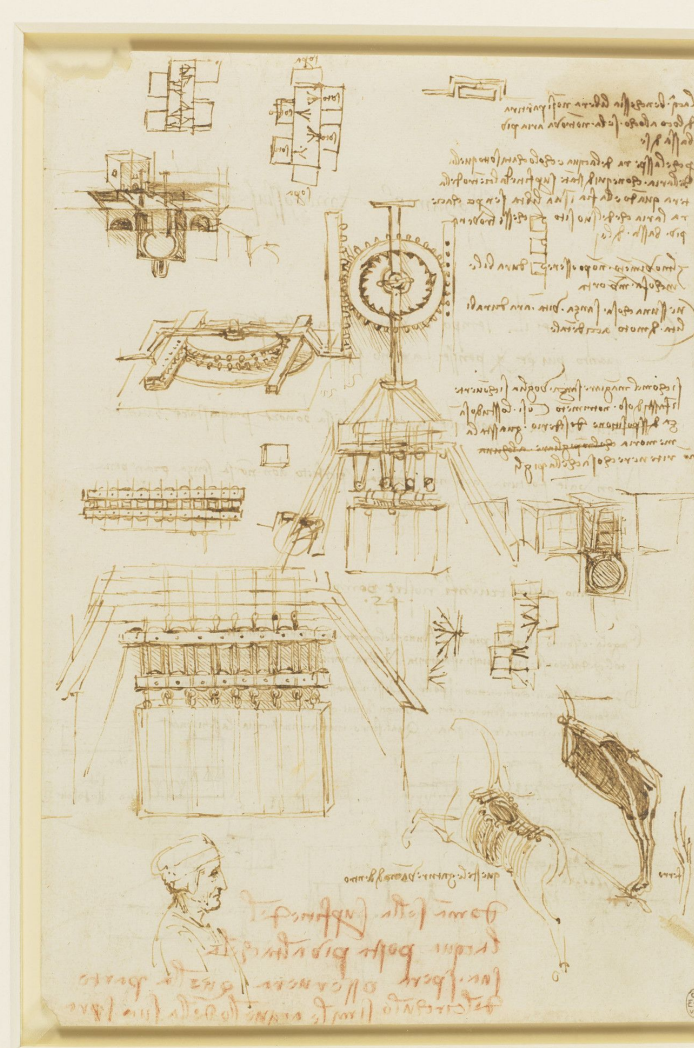
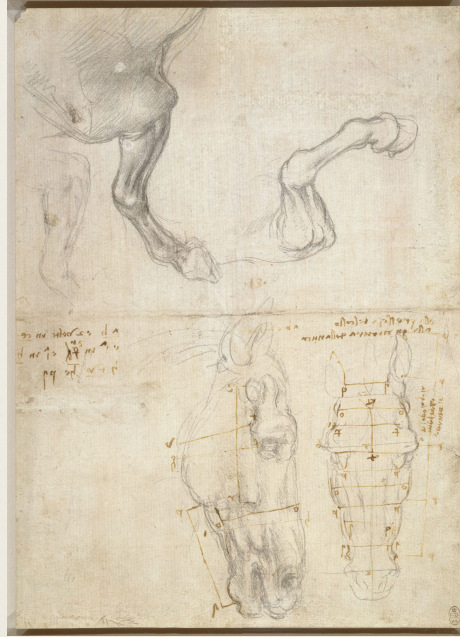
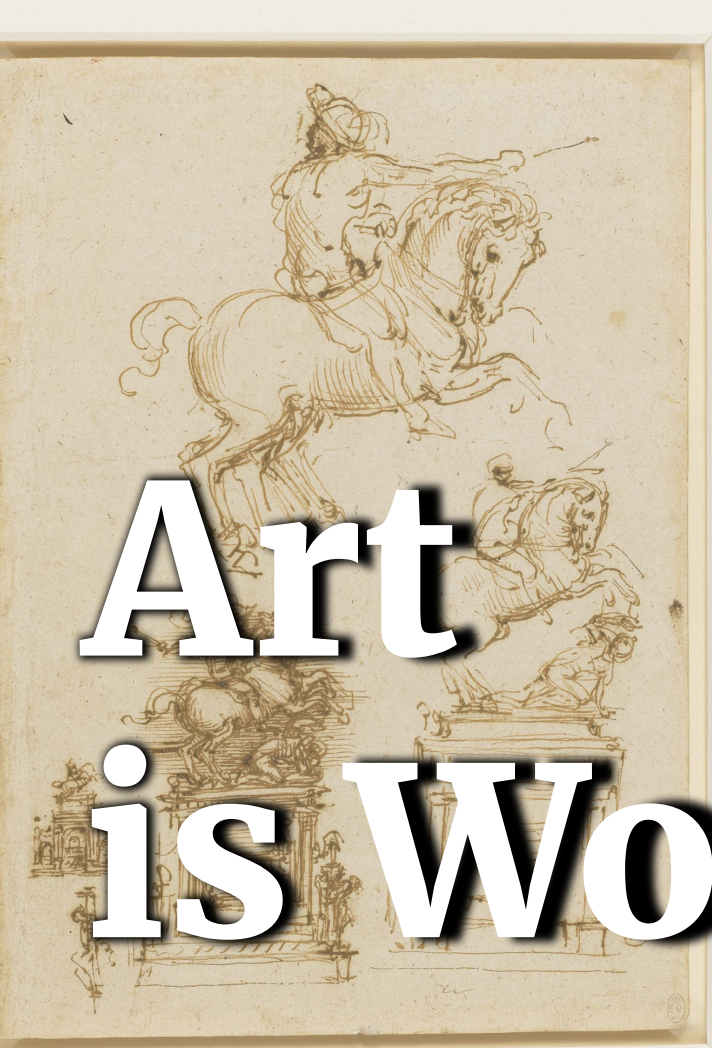
 [Add contribute link to navbar #7274](#)

Stop Building Contribution Ladders



*...era doble del castillo
Schale. Docpie. una. per lo. Chastellano.*

Art is Work

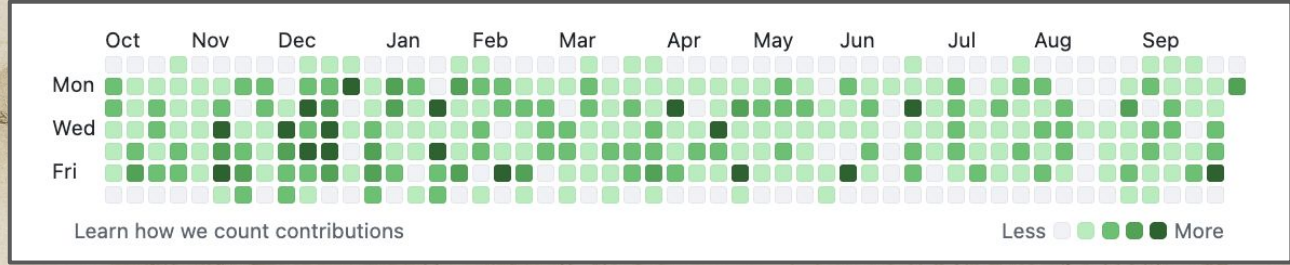
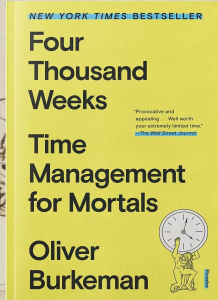


Open Source is Work

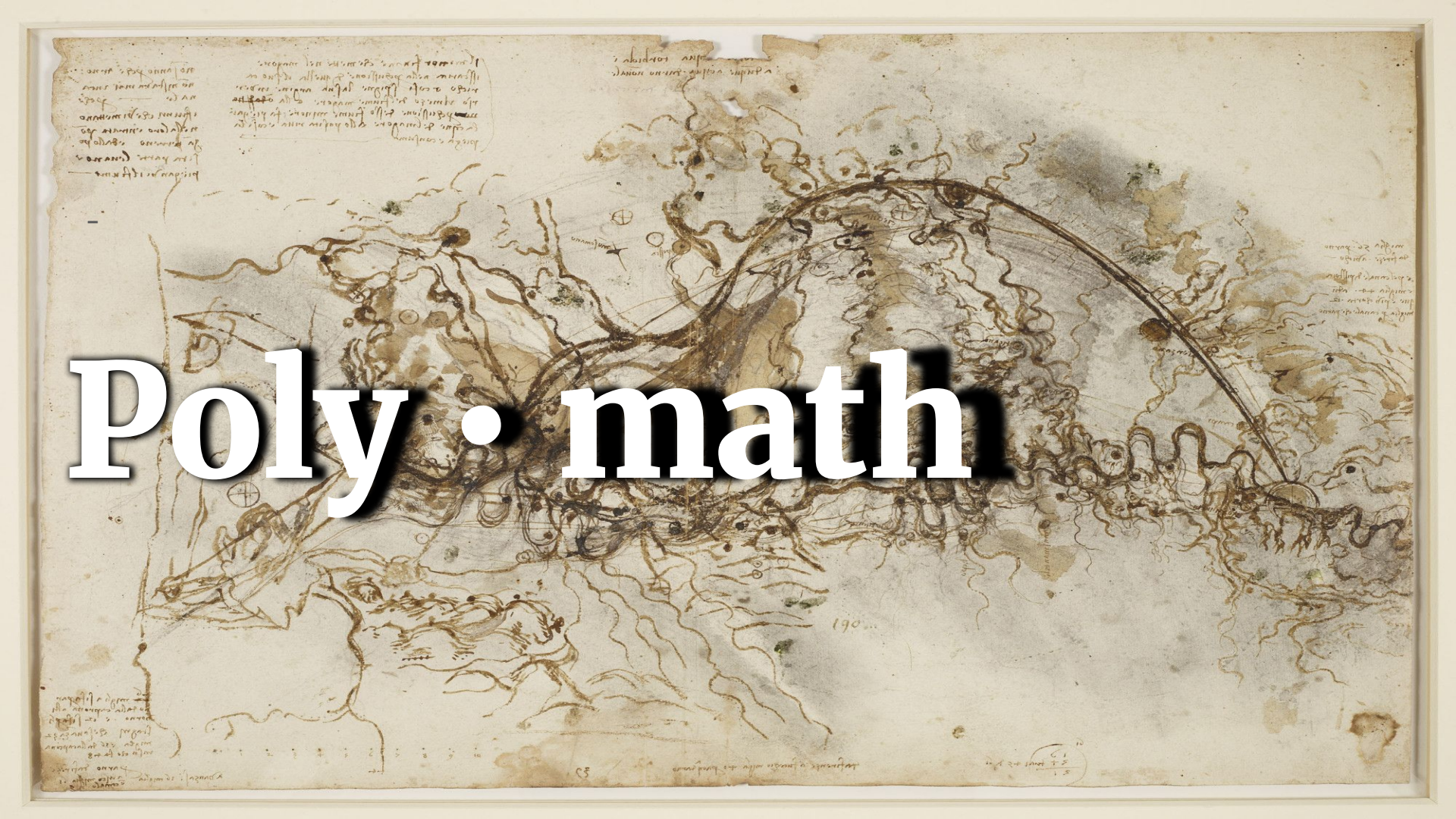




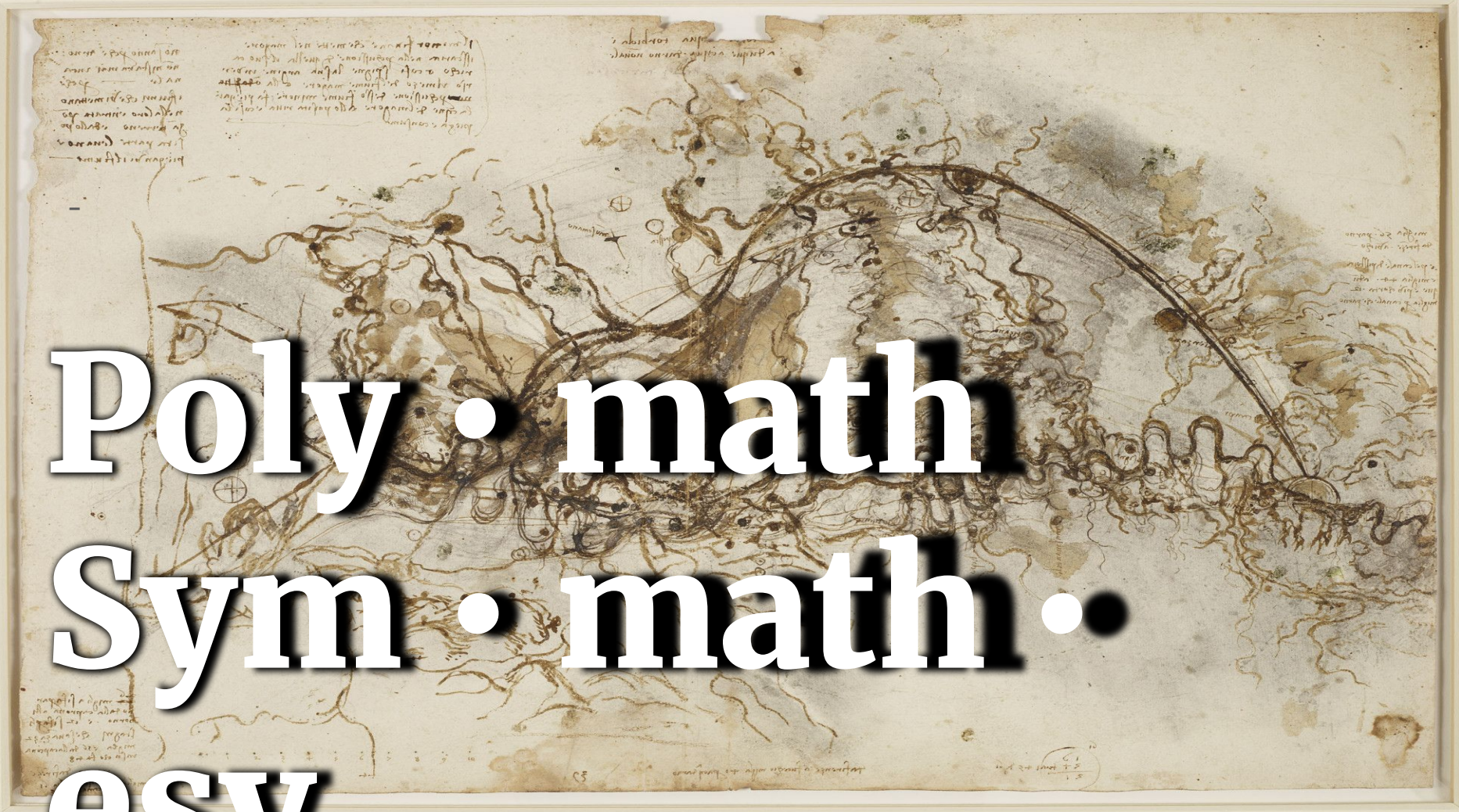
**You Don't
Need
Permission**



Find a Patron Worthy of You

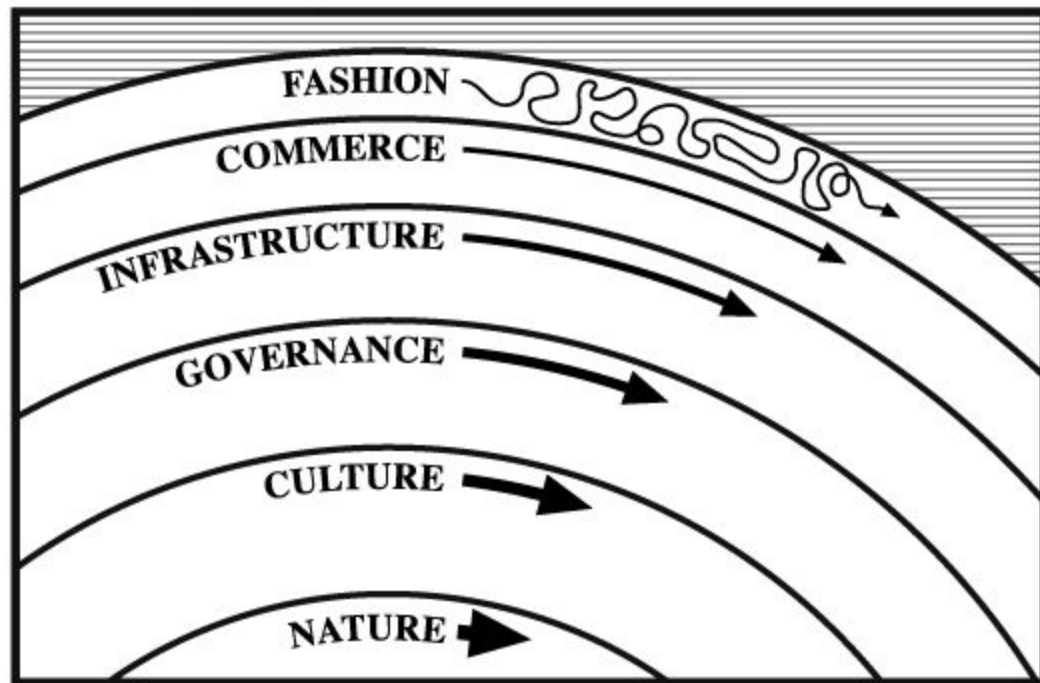


Poly • math



Poly • math
Sym • math •
esv

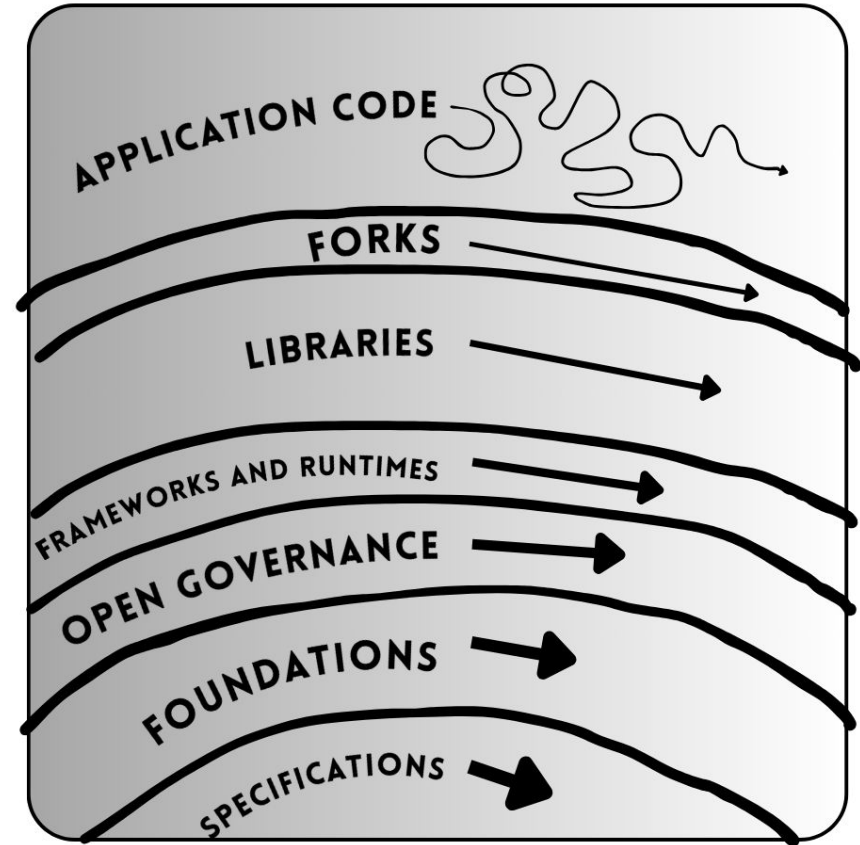
Pace Layering



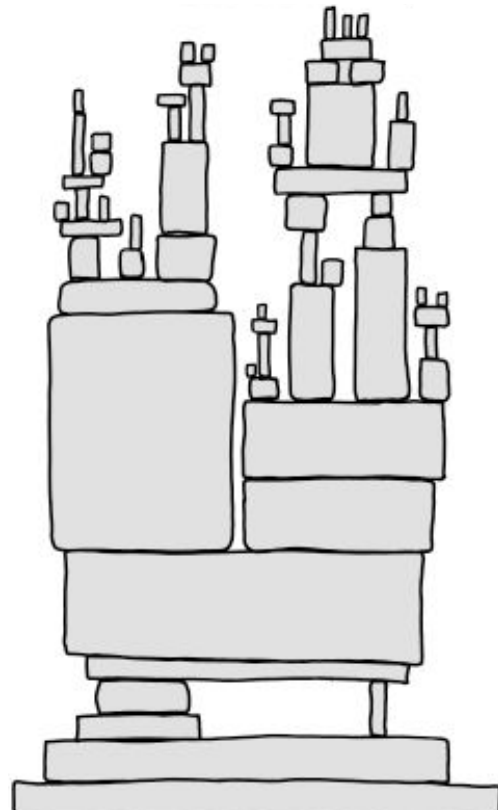
Source: Brand, S., 1999, *The Clock of the Long Now*, p. 37.

- innovation can be quick / creators have agency to explore
- competition puts pressure on established systems to improve
- maintainers craving momentum and stability have space and time to cultivate
- layers exist for anyone to contribute within their means

Open Source Pace Layers, v1.0.0



Source: Brian Muenzenmeyer, 2025, brianmuenzenmeyer.com and approachableopensource.com







Thanks!

@brianmuenzenmeyer.com



@bmuenzenmeyer



@me

