

jPrime, 3-4 June 2026
Sofia, Bulgaria

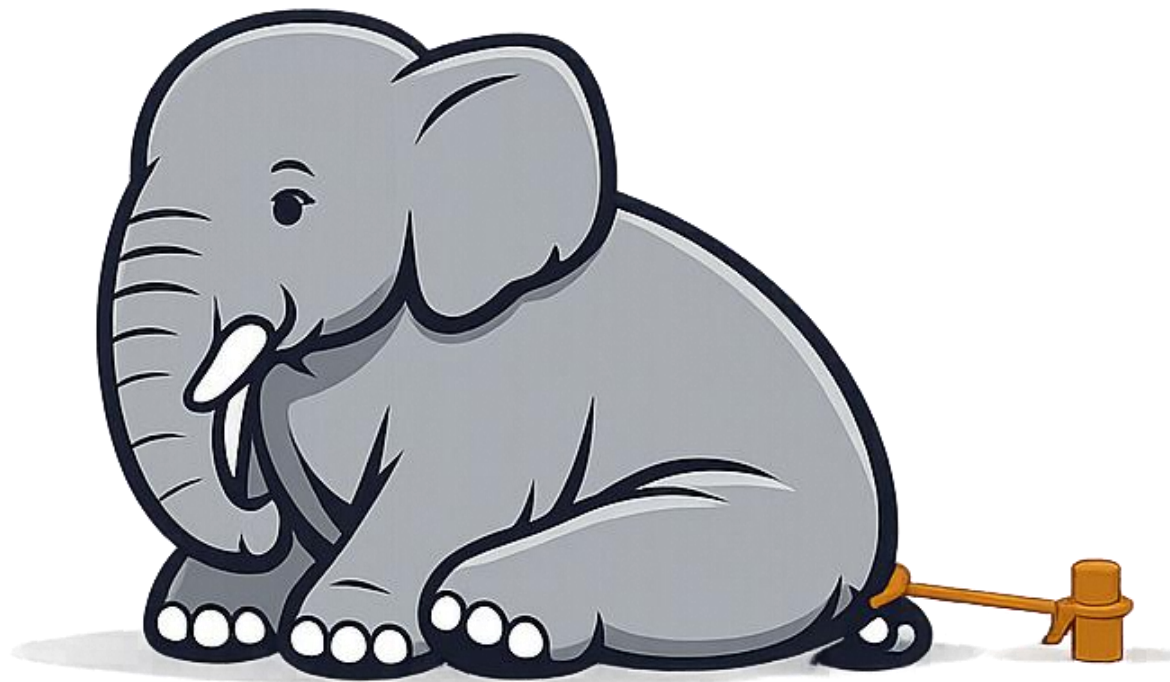
How Coding Agents Are Transforming Software Development:

From Code Completion to Autonomous Feature Delivery

Ioannis Kolaxis
Director at Accenture

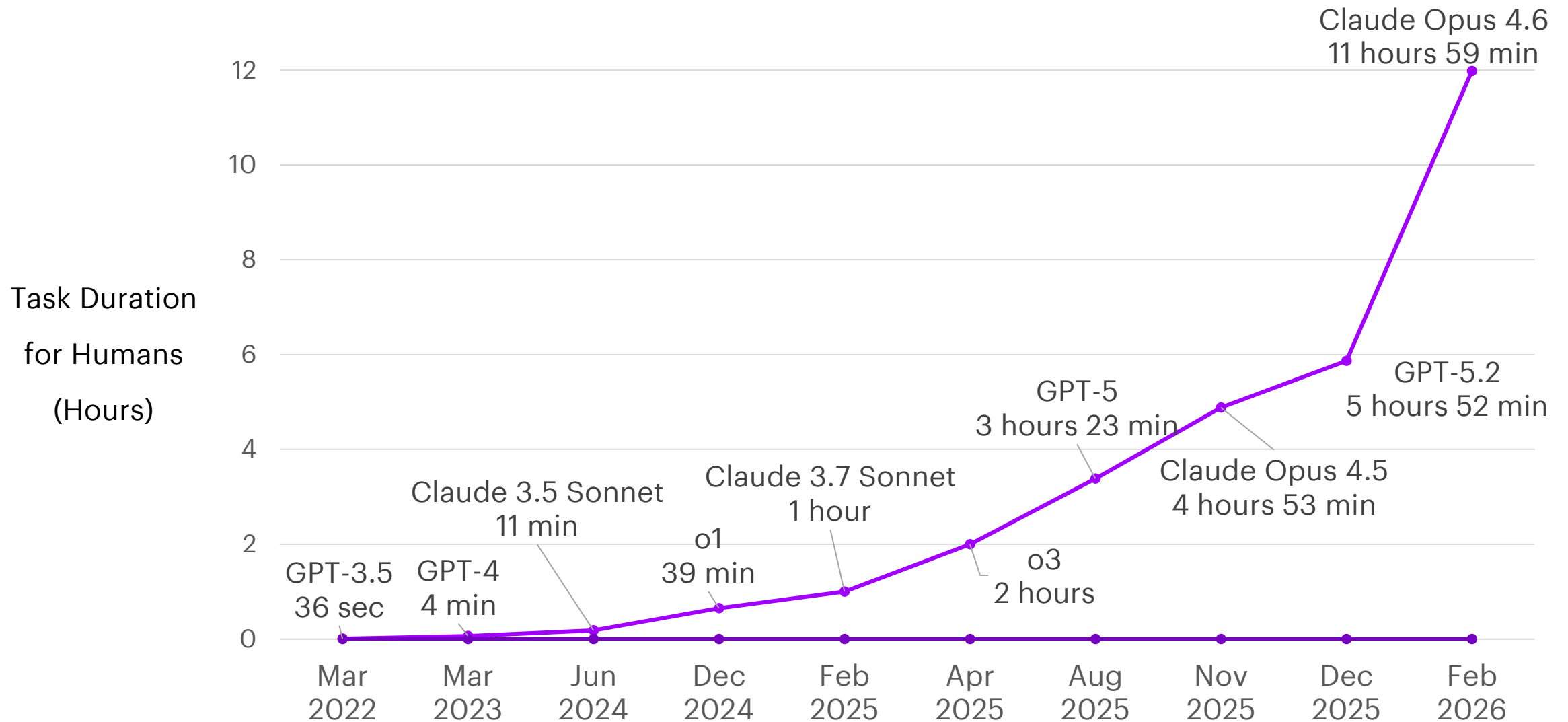


2 years ago



Now

Software tasks LLMs can complete



Source: [Time horizon of software tasks different LLMs can complete 50% of the time, METR, 2026](#)

Who am I?

Ioannis Kolaxis - Director at Accenture

- Developer
 - From programming in BASIC with an Amstrad CPC 6128
 - To first job building Java Applets (in Java 1.2)
- Inventor: [5 Patents](#)
- Book author: Green Software



Visit website: kolaxis.dev



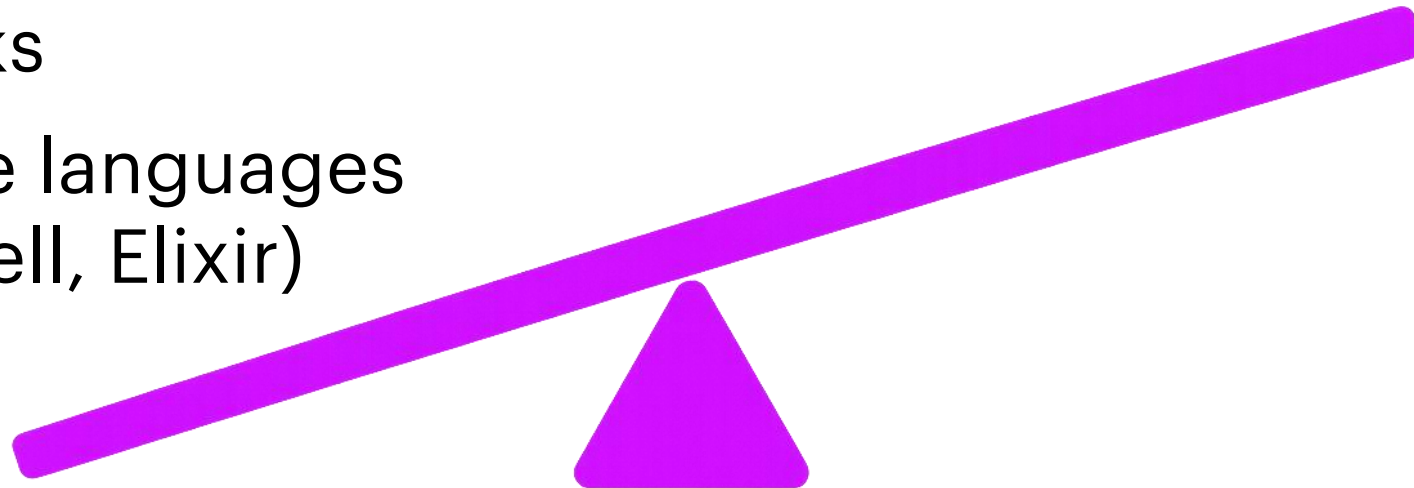
LLM performance varies by coding task

Lower Performance

- Brownfield/Legacy project
- Complex tasks
- Legacy/Niche languages (COBOL, Haskell, Elixir)

Higher Performance

- Greenfield project
- Simple tasks
- Popular languages (Java, Python)



An LLM is like a developer
who just joined your team.

Talented but knows nothing
about your codebase!



How we onboard developers

We introduce them to:

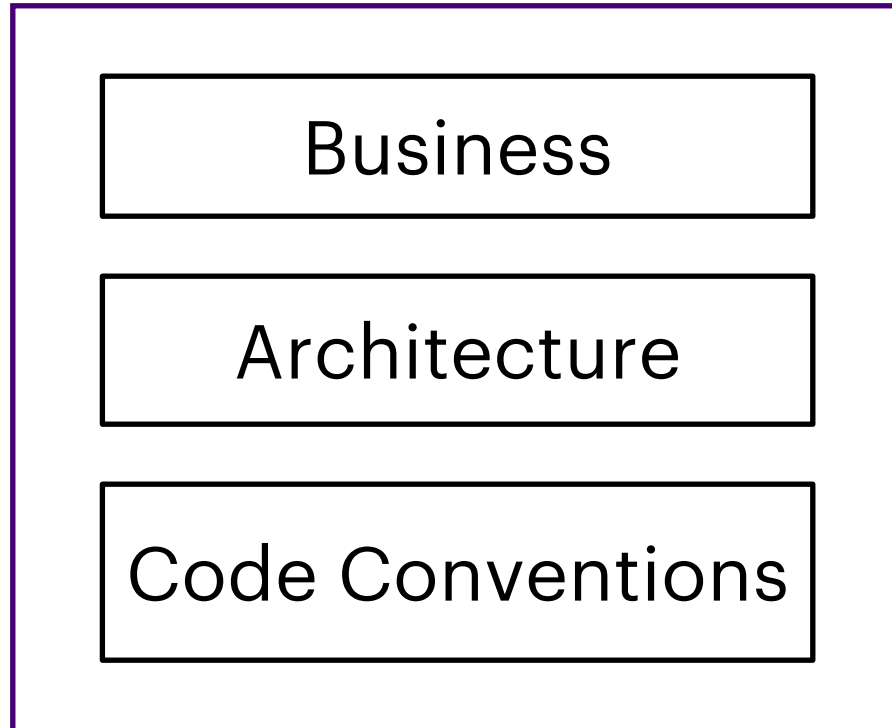
- the **business**,
- the **code**,
- the **pipeline**



What we tell LLMs – every single time!

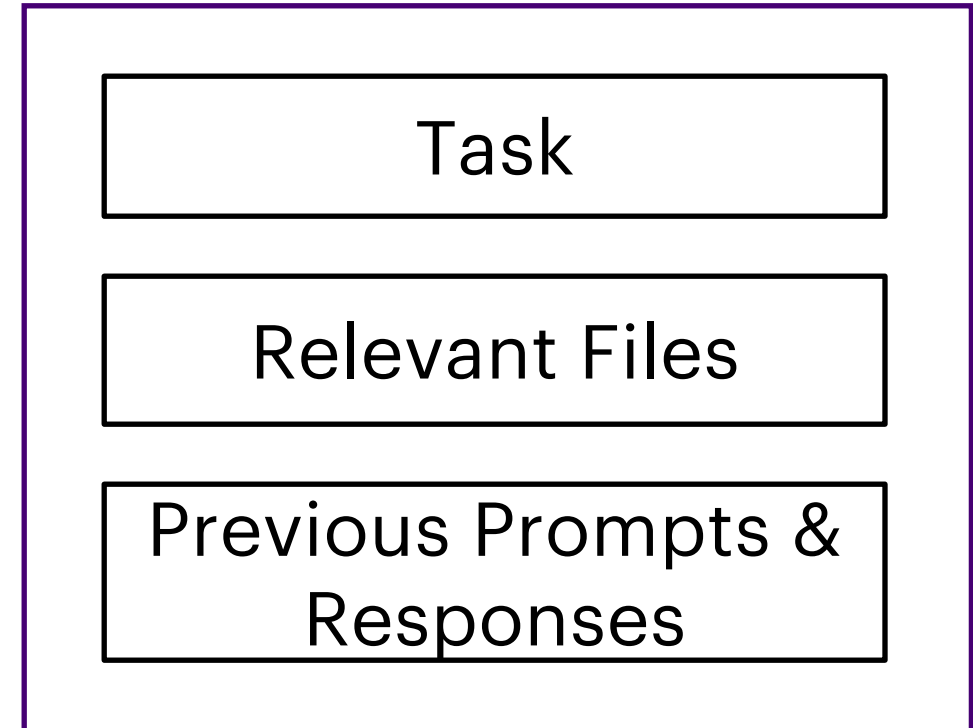
Constant Context

Sent with every prompt

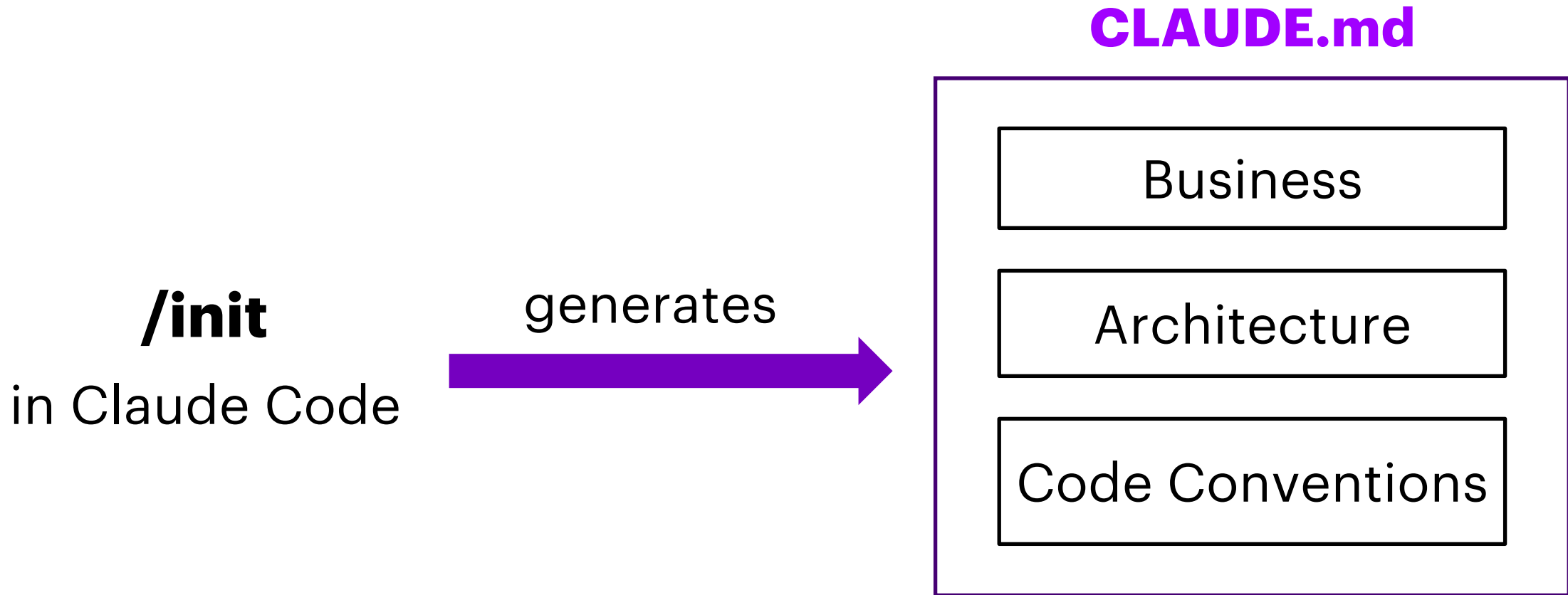


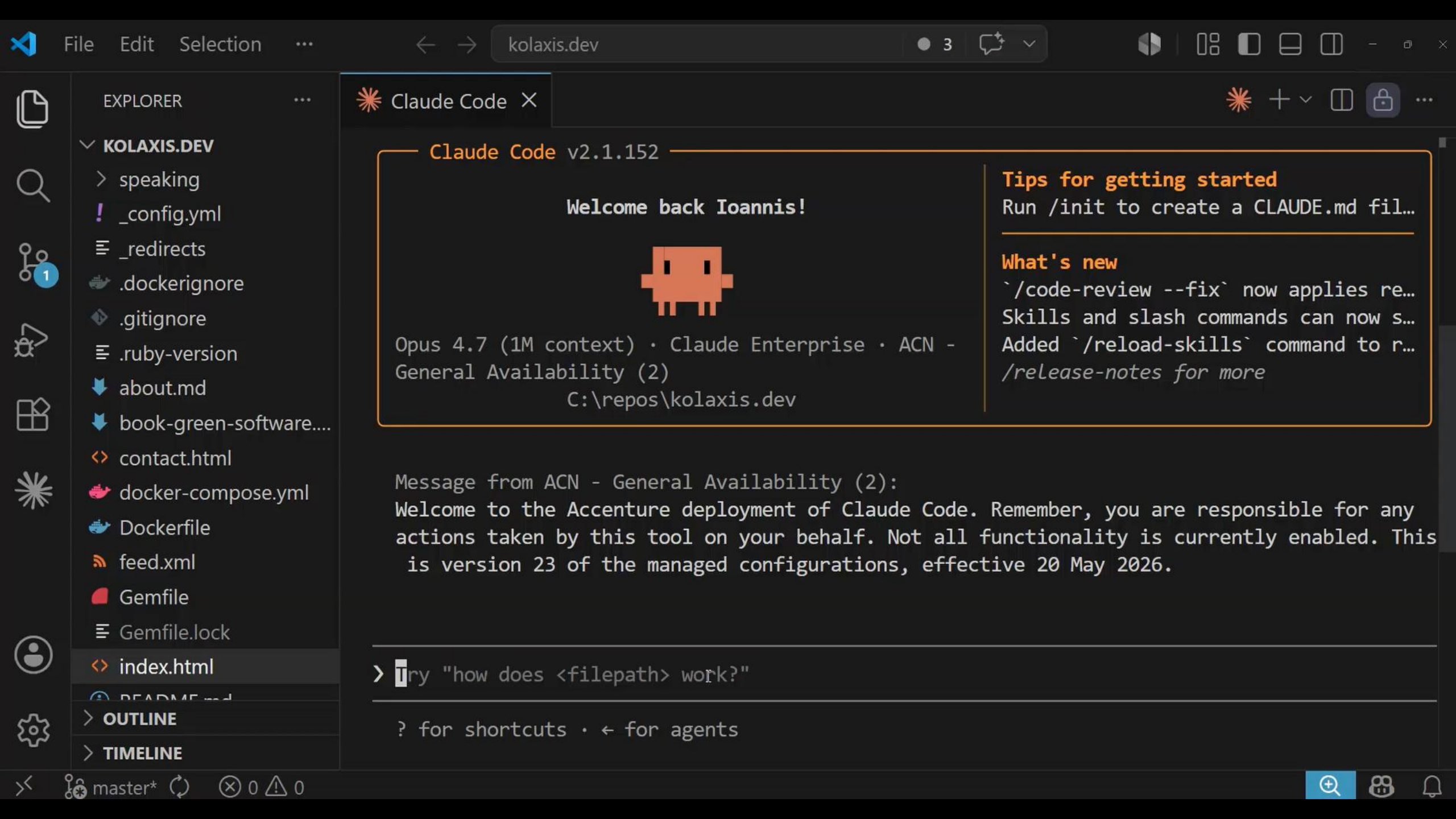
Dynamic Context

Changes per prompt



Demo: Using Claude Code to create the Constant Context





EXPLORER

KOLAXIS.DEV

- > speaking
- ! _config.yml
- _redirects
- .dockerignore
- .gitignore
- .ruby-version
- about.md
- book-green-software....
- <> contact.html
- docker-compose.yml
- Dockerfile
- feed.xml
- Gemfile
- Gemfile.lock
- <> index.html
- README.md
- > OUTLINE
- > TIMELINE

Claude Code X

Icons for window management and search.

Claude Code v2.1.152

Welcome back Ioannis!



Opus 4.7 (1M context) · Claude Enterprise · ACN - General Availability (2)
C:\repos\kolaxis.dev

Tips for getting started

Run /init to create a CLAUDE.md fil...

What's new

`/code-review --fix` now applies re...
Skills and slash commands can now s...
Added `/reload-skills` command to r...
/release-notes for more

Message from ACN - General Availability (2):

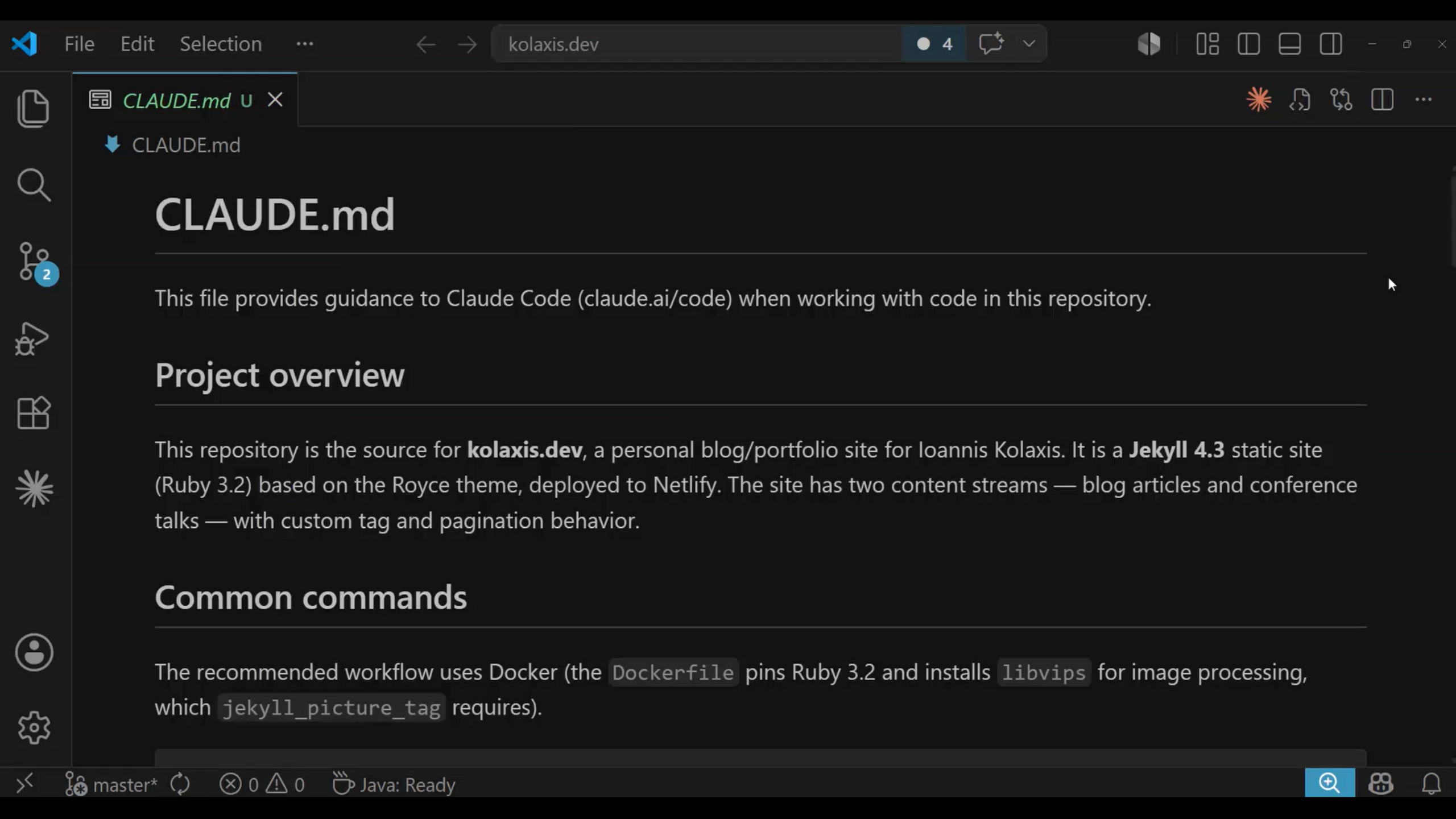
Welcome to the Accenture deployment of Claude Code. Remember, you are responsible for any actions taken by this tool on your behalf. Not all functionality is currently enabled. This is version 23 of the managed configurations, effective 20 May 2026.

> try "how does <filepath> work?"

? for shortcuts · ← for agents

After 3 min
and 4.7K tokens





Demo: From jQuery to Vanilla JS

Home | Ioannis Kolaxis

https://www.kolaxis.dev

A blog dedicated to building better software

Ioannis Kolaxis
SOFTWARE ARCHITECT

HOME
ABOUT
SPEAKING
WRITING
SEARCH

in ▶

Design → Code → Build → Test → Deploy → Run

Shift-Left Sustainability

February 24, 2026

Shift-Left Sustainability: How to develop green software by design

#Green Software #Cloud

Resist the temptation to start coding!

1. Explore

- Find jQuery usage
- Define tests



File
EXPLORE.md



2. Plan

- Map jQuery to JS
- Prioritize by risk



File
PLAN.md



3. Code

- Execute plan



File
#1

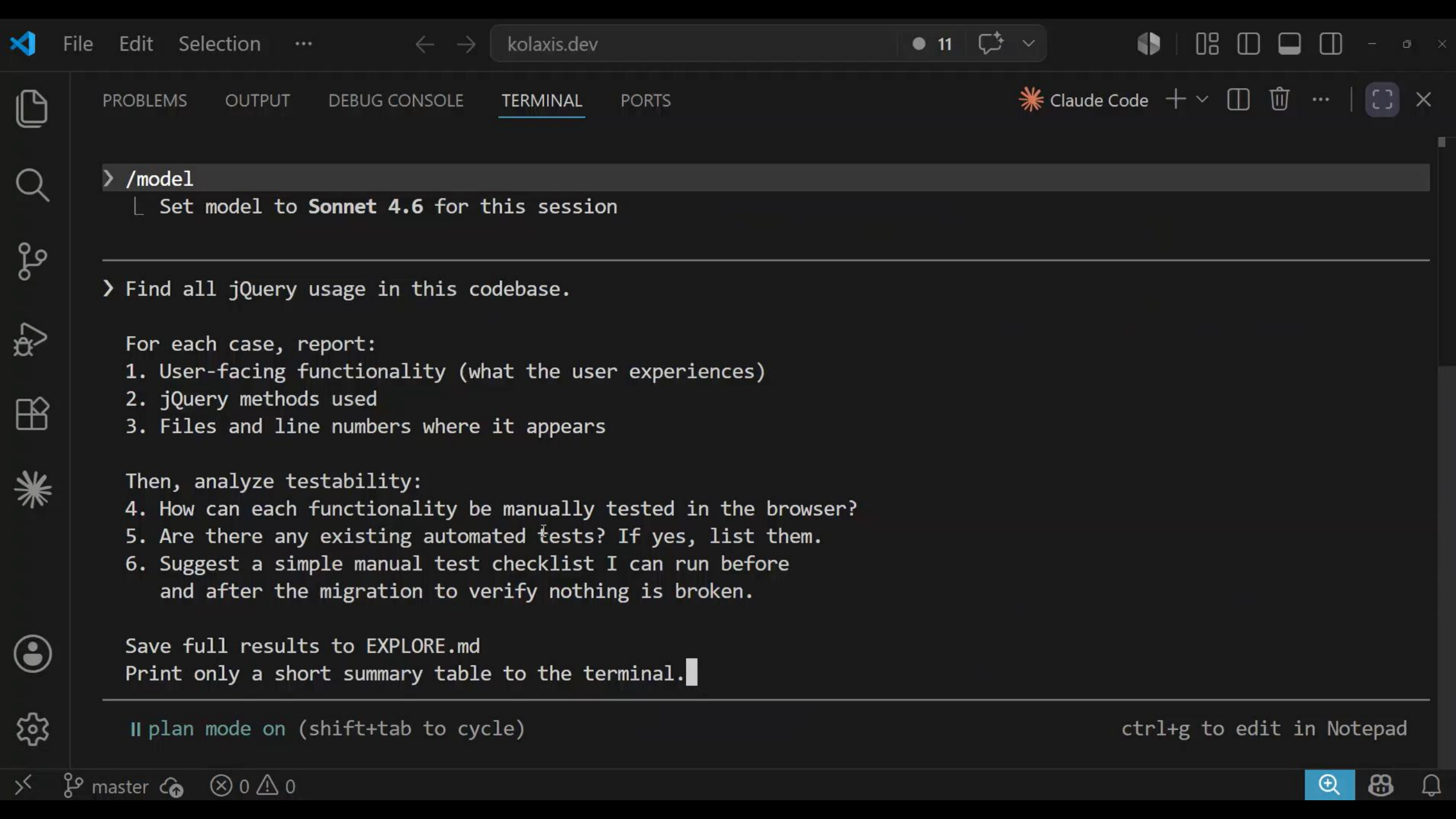
...

File
#N

Explore → Plan → Code

Prompt

- Find every jQuery call in codebase, and
- Create list of tests for features using jQuery
- Save results to **EXPLORE.md**



After 3 min 32 sec
and 28K tokens



File

Edit

Selection

...

<

>

kolaxis.dev

● 11

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EXPLORE.md U

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EXPLORE.md

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⚙️

jQuery Usage Audit — kolaxis.dev

Generated: 2026-05-27
Scope: full codebase (C:\repos\jprime2026\kolaxis.dev)

1. jQuery version & loading

What	File	Line
Library (vendor file)	assets/js/jquery-3.6.0.min.js	— (entire file)
<script> tag loading library	_layouts/default.html	71
<script> tag loading custom code	_layouts/default.html	73

jQuery **3.6.0** is loaded on **every page** (via `_layouts/default.html`) with the `defer` attribute.

<>

🔒 master*

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🔔

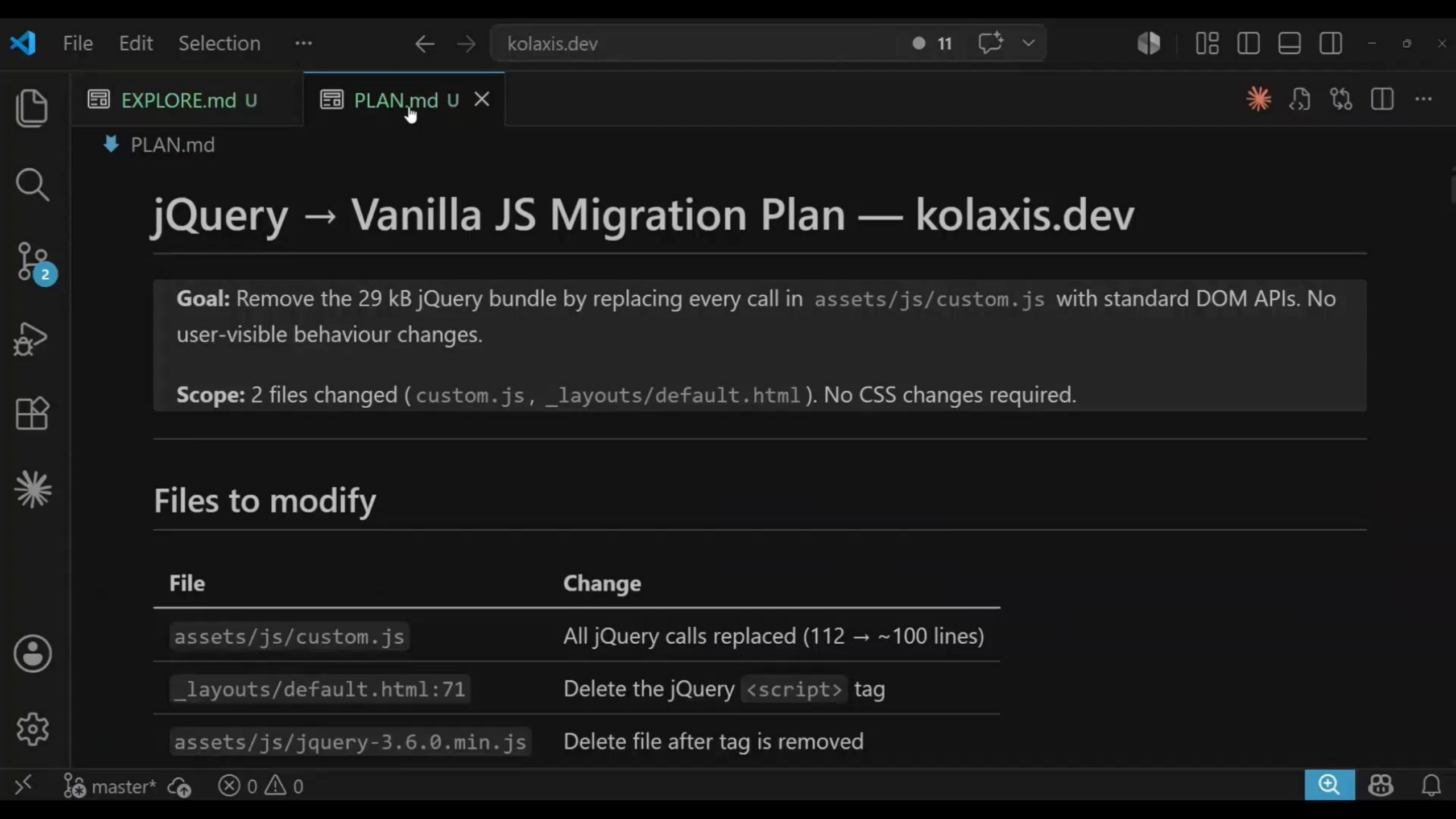
Explore → Plan → Code

Prompt

- Map each jQuery call to vanilla JS.
- Rank by risk, define migration order
- Include manual test per change
- Save plan to PLAN.md

After 4 min 41 sec
and 26K tokens





kolaxis.dev

11

EXPLORE.md U

PLAN.md U

PLAN.md

jQuery → Vanilla JS Migration Plan — kolaxis.dev

Goal: Remove the 29 kB jQuery bundle by replacing every call in `assets/js/custom.js` with standard DOM APIs. No user-visible behaviour changes.

Scope: 2 files changed (`custom.js`, `_layouts/default.html`). No CSS changes required.

Files to modify

File	Change
<code>assets/js/custom.js</code>	All jQuery calls replaced (112 → ~100 lines)
<code>_layouts/default.html:71</code>	Delete the jQuery <code><script></code> tag
<code>assets/js/jquery-3.6.0.min.js</code>	Delete file after tag is removed

master*

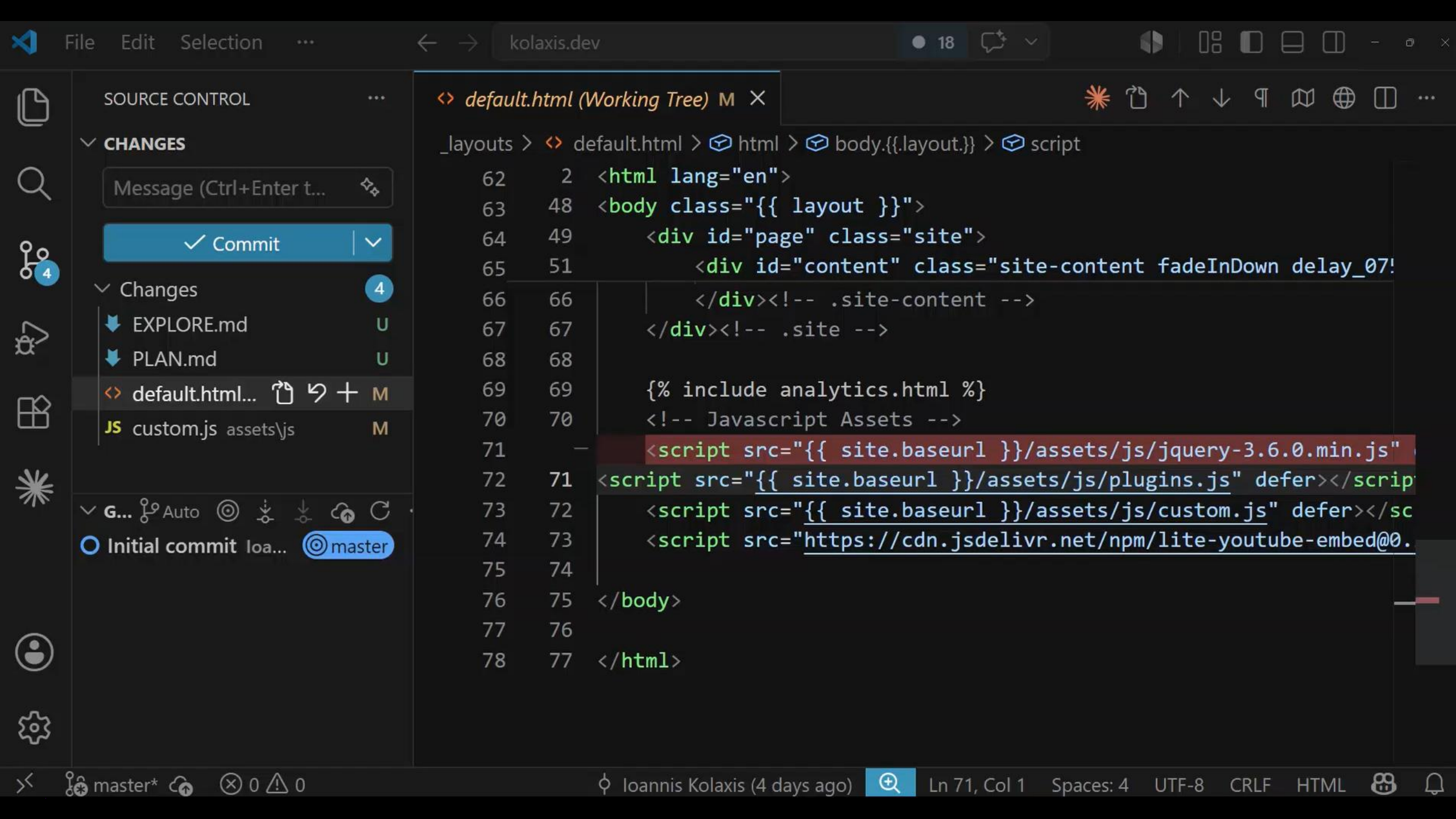
Explore → Plan → Code

Prompt

- Read `PLAN.md` and execute changes

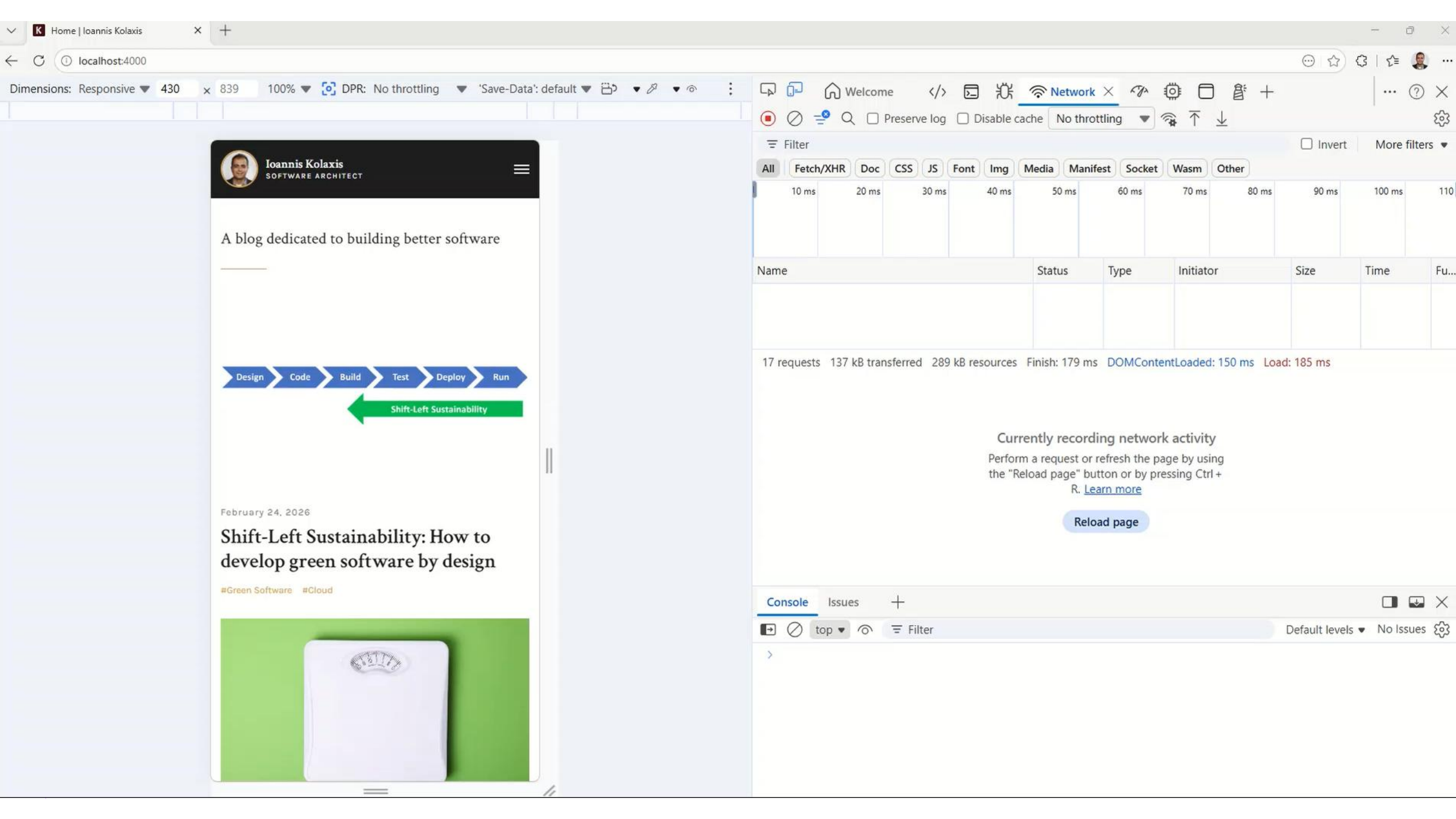
After 1 min 14 sec
and 8.4K tokens





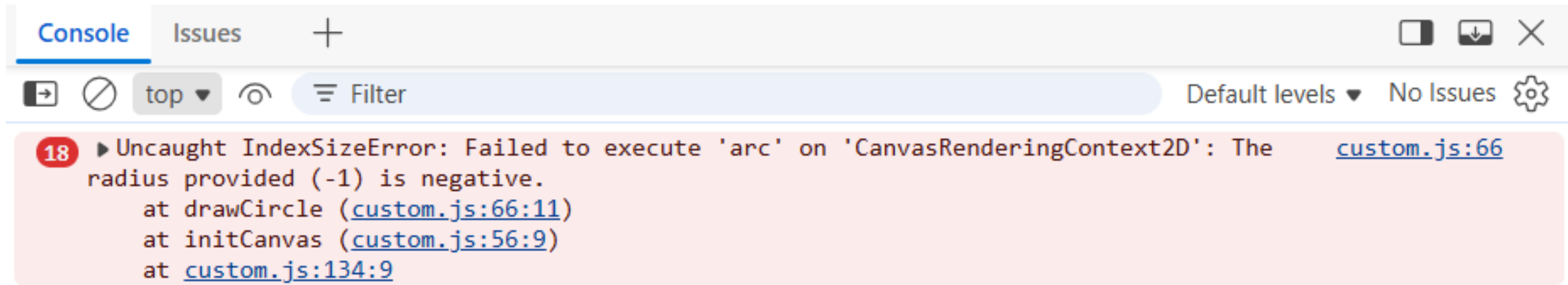
Was the migration
successful?





Explore → Plan → Code

- Ask agent to fix error (Explore → Plan → Code):



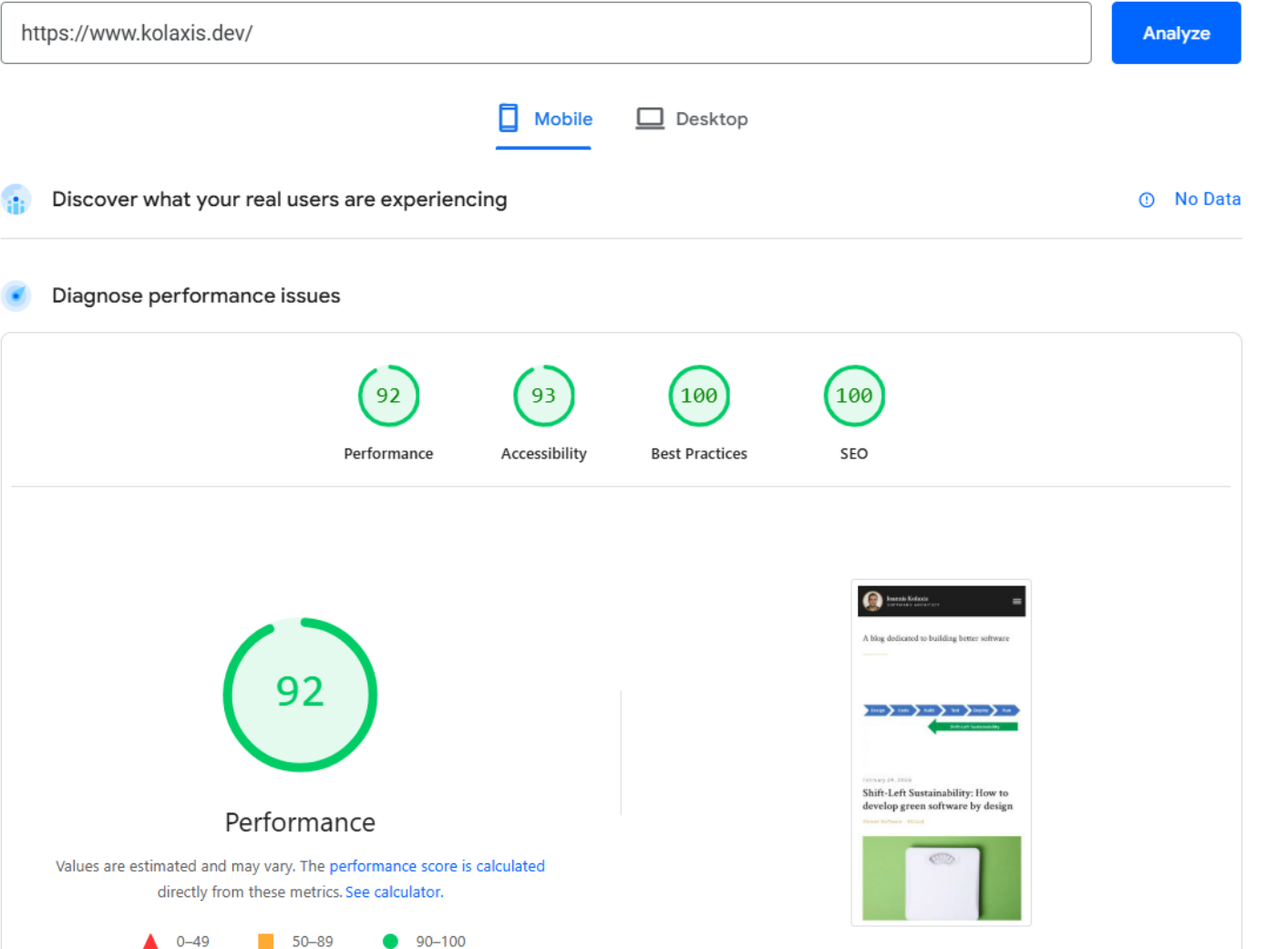
The screenshot shows a web browser's developer console with the 'Console' tab selected. The console displays an error message: 'Uncaught IndexSizeError: Failed to execute 'arc' on 'CanvasRenderingContext2D': The radius provided (-1) is negative.' The error is highlighted in a pink background. The stack trace shows the error occurred at `custom.js:66:11` in the `drawCircle` function, which was called from `custom.js:56:9` in the `initCanvas` function, which was called from `custom.js:134:9`. The console also shows a 'Filter' button and a 'No Issues' status.

```
18 ▶ Uncaught IndexSizeError: Failed to execute 'arc' on 'CanvasRenderingContext2D': The radius provided (-1) is negative.
    at drawCircle (custom.js:66:11)
    at initCanvas (custom.js:56:9)
    at custom.js:134:9
```

Demo: From jQuery to Vanilla JS

Performance improved from 90% to 92%

PageSpeed Insights



Resist the temptation to start coding!

1. Explore

- Find jQuery usage
- **Define tests**



File
EXPLORE.md



2. Plan

- Map jQuery to JS
- Prioritize by risk



File
PLAN.md



3. Code

- Execute plan



File
#1

...

File
#N

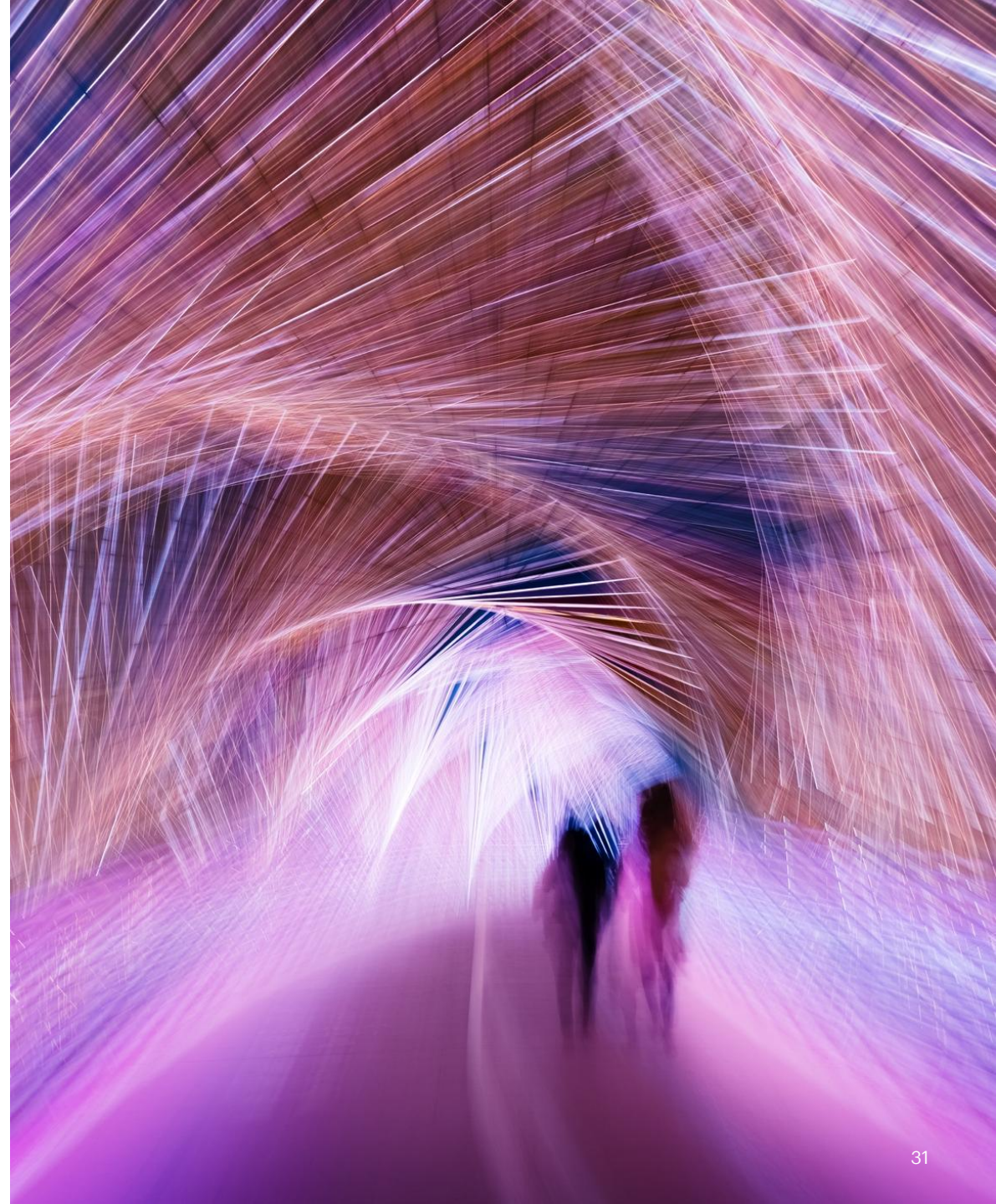
Write Tests Before Code

Code first, tests after?
Agents will make the tests
pass even for bugs

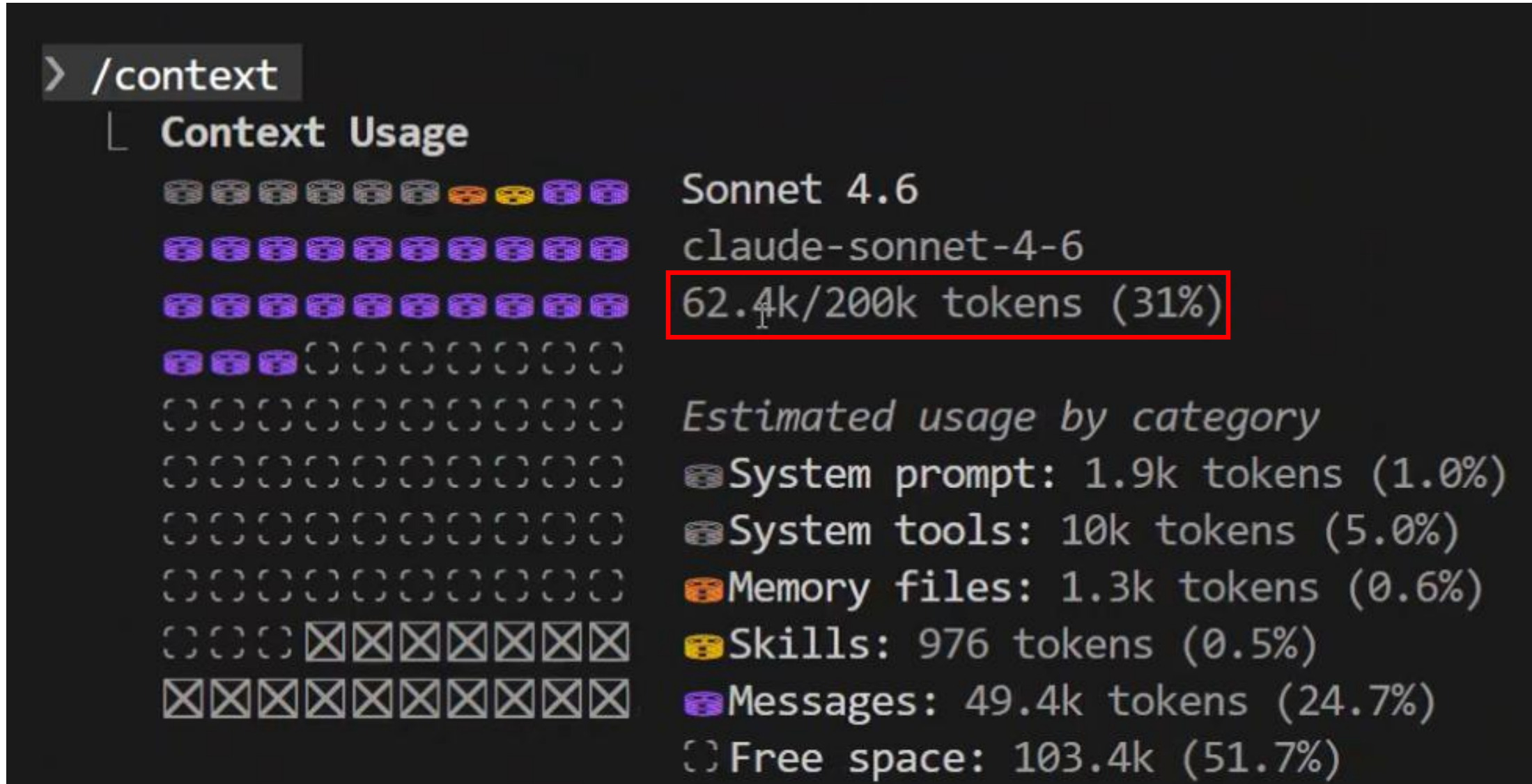


What Happened to the LLM's Memory?

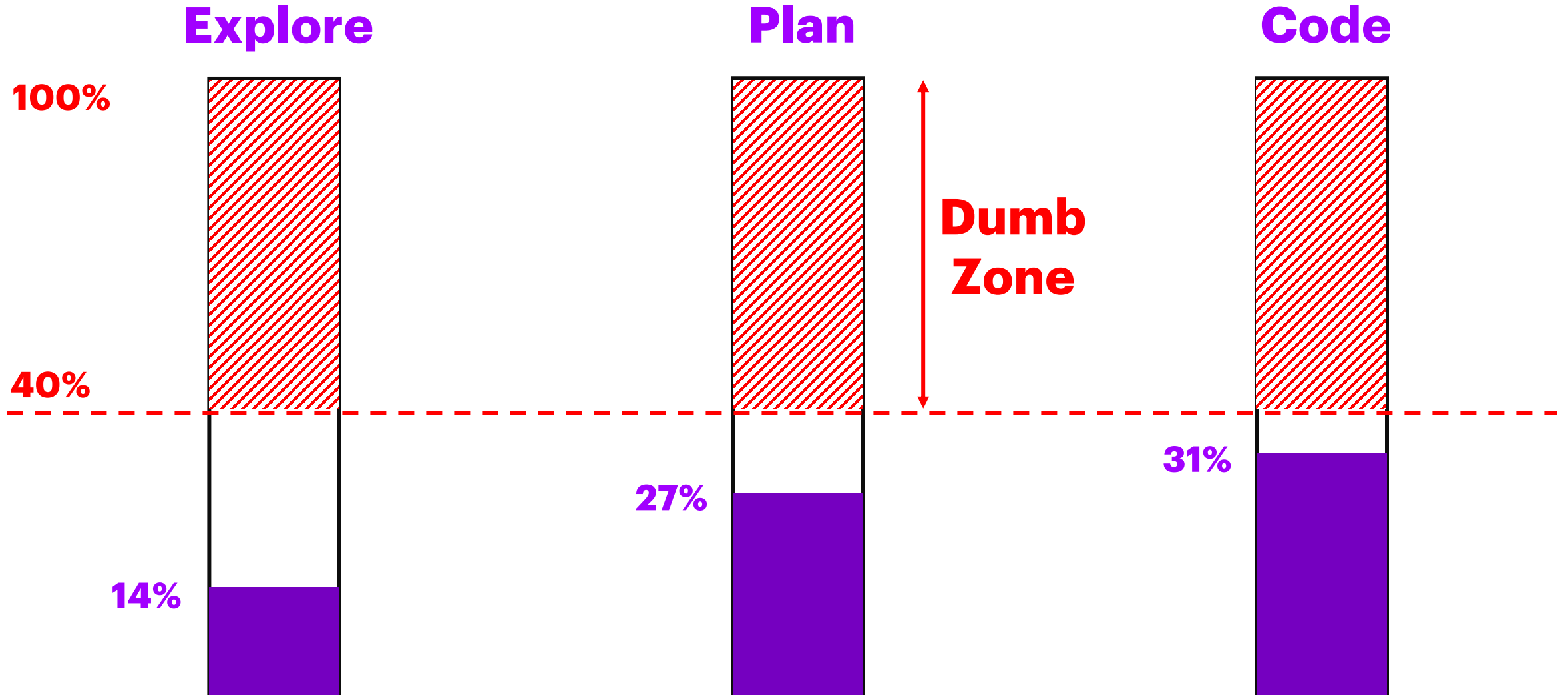
Step	Total Tokens
1. Explore	28K
2. Plan	54K
3. Code	62.4K



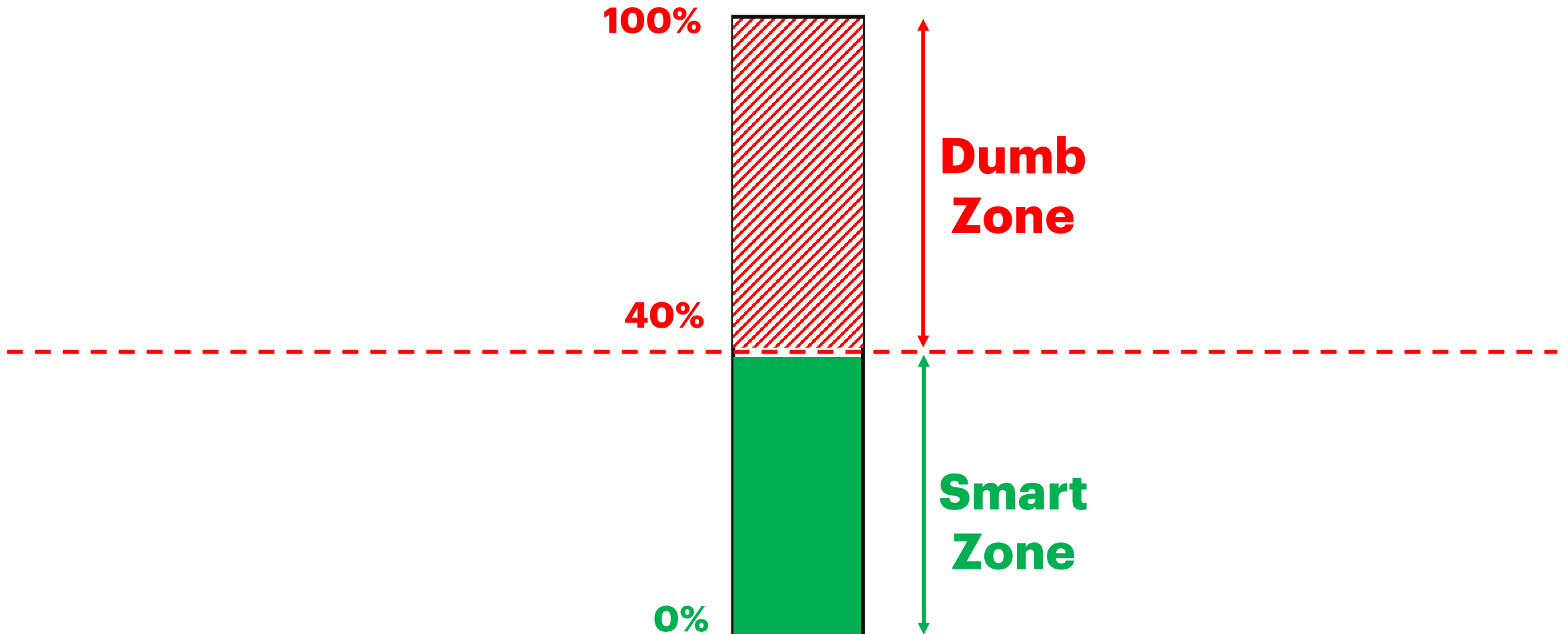
Context Window – How much is used?



Context Window: Avoid the dumb zone!



Context Window: Stay in the smart zone



Optimizing Context

What	When to use
Clear context	New task
Compact context	Long-running task
Delegate to subagents	Parallel work

Prompt → Context Engineering

Context engineering is the delicate art and science of filling the context window with just the right information for the next step.

Andrej Karpathy

Less Coding, More Thinking

1. Identify the problem worth solving
2. Break it into smaller tasks
3. Explore → Plan → Code
(Tests first!)



Less Coding, More Experimentation

Bringing ideas to life, faster!



Demo: Add Speaker Videos to Conference Agenda



HOMECALL FOR PAPERTICKETSTEAMUSEFUL INFOSPEAKERSAGENDABLOG



AGENDA

The agenda for jPrime 2026 is now available!
You can track the agenda from your mobile phone from our PWA app available at <https://jprime.io/app>
or [Google Play Store](#)

Wednesday (03/06/2026)

Thursday (04/06/2026)

	Hall A	Hall B	Workshops & Deep Dives
08:00		Registration & Coffee	
09:30			
09:30		Opening	
10:00			
	<u>Learning modern Java the playful way</u>		
10:00	Piotr Przybył	<u>Practical MCP Security in Action</u>	
10:50	&& Marit van Dijk	Willem Jan Glerum	
10:50		Break	
11:05			
11:05	<u>Agentic AI Patterns for Enterprise Software</u>	<u>JDK 25's new CPU-Time Profiler</u>	
11:55	Kevin Dubois	Johannes Bechberger	
11:55		Lunch Break	
13:00			
13:00	<u>Experiment Agentic AI patterns (and MCP) within your own workloads</u>	<u>Scotty I need Warp Speed - Ways to improve the JVM startup/warmup</u>	
13:50	Arnaud Jean	Gerrit Grunwald	<u>Human-in-the-Loop Engineering: Designing Systems Where Agents Propose, Humans Approve</u>

Explore → Plan → Code

Prompt

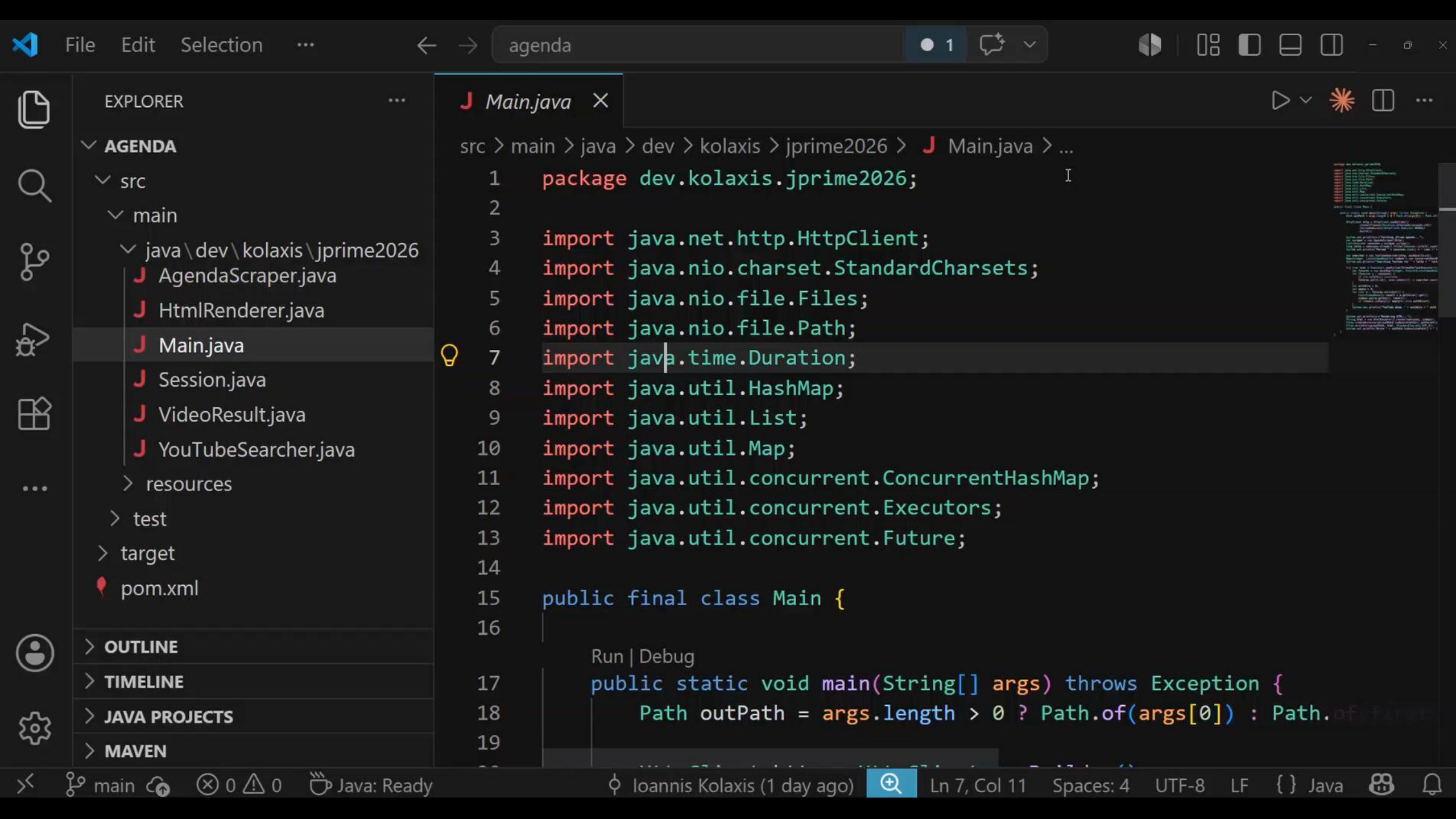
Build a Java app that enriches the jPrime conference agenda with videos from the same speakers

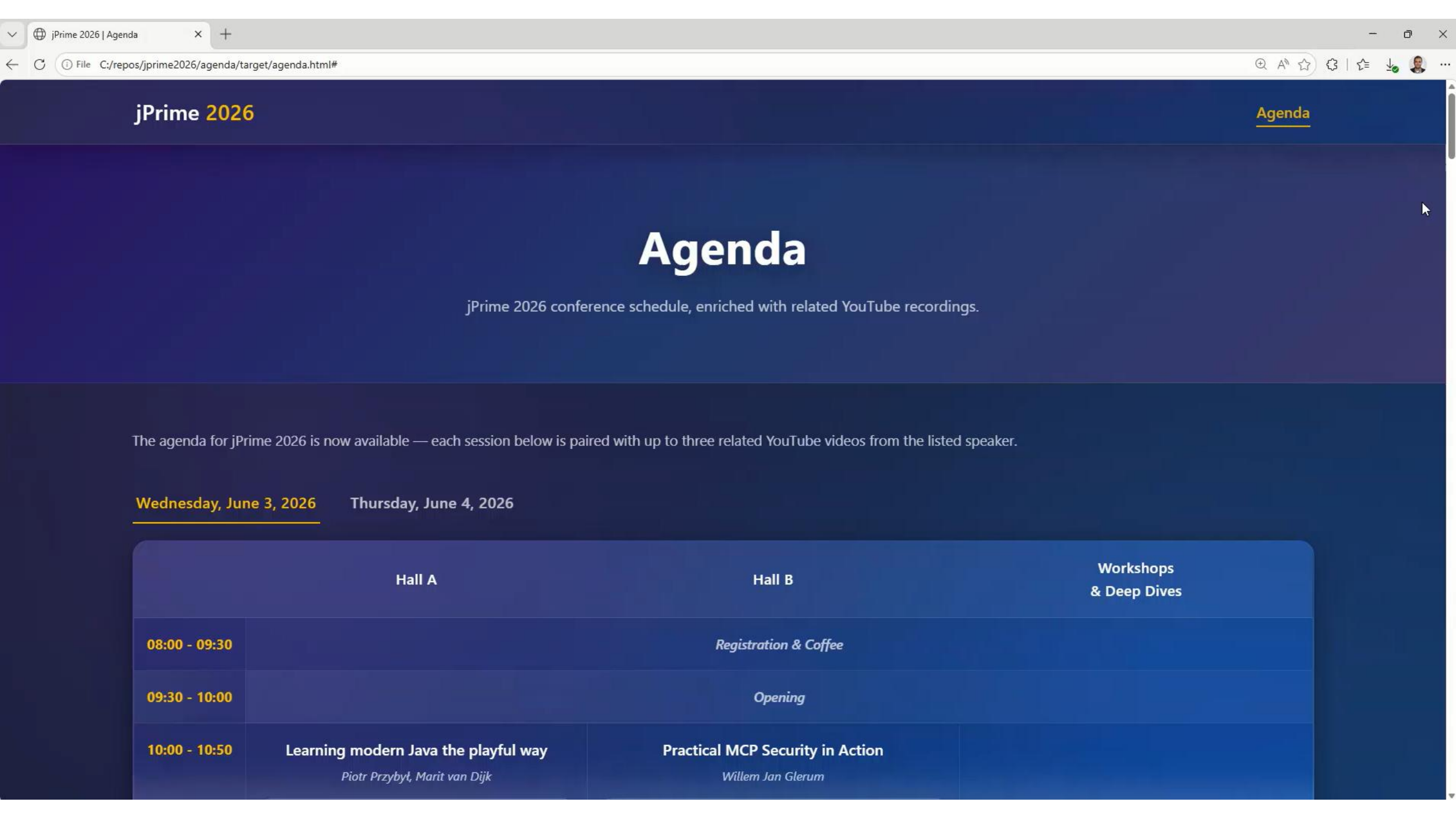
- Step 1: Extract the agenda (speaker name, session title)
- Step 2: Search on YouTube for same speaker, session
- Step 3: Generate new agenda



After 12 min 30 sec
and 44K tokens







Demo: Add Speaker Videos to Conference Agenda

17:30 - 18:20

A Journey - On tour with Java code on it's way through the JVM

Gerrit Grunwald

RELATED VIDEOS

20!

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Devoxx · 3y ago

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Ioannis Kolaxis

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Agenda with Past Speaker Videos

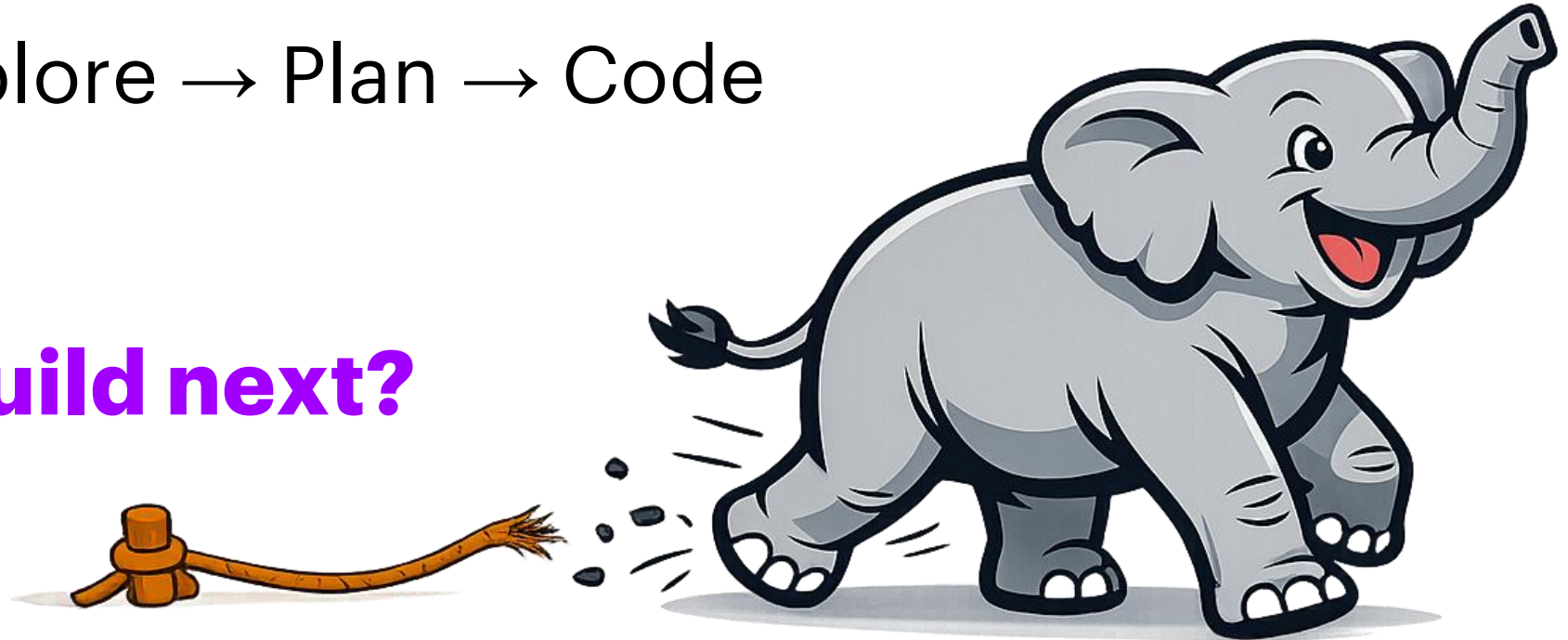
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44

The rope can't hold you anymore

1. Try the latest models
2. Mind the context
3. Think more: Explore → Plan → Code

What will you build next?





Questions?