

Tips and techniques for better Prompting

When using AI coding assistants

Ricardo Sueiras (vi/vim)

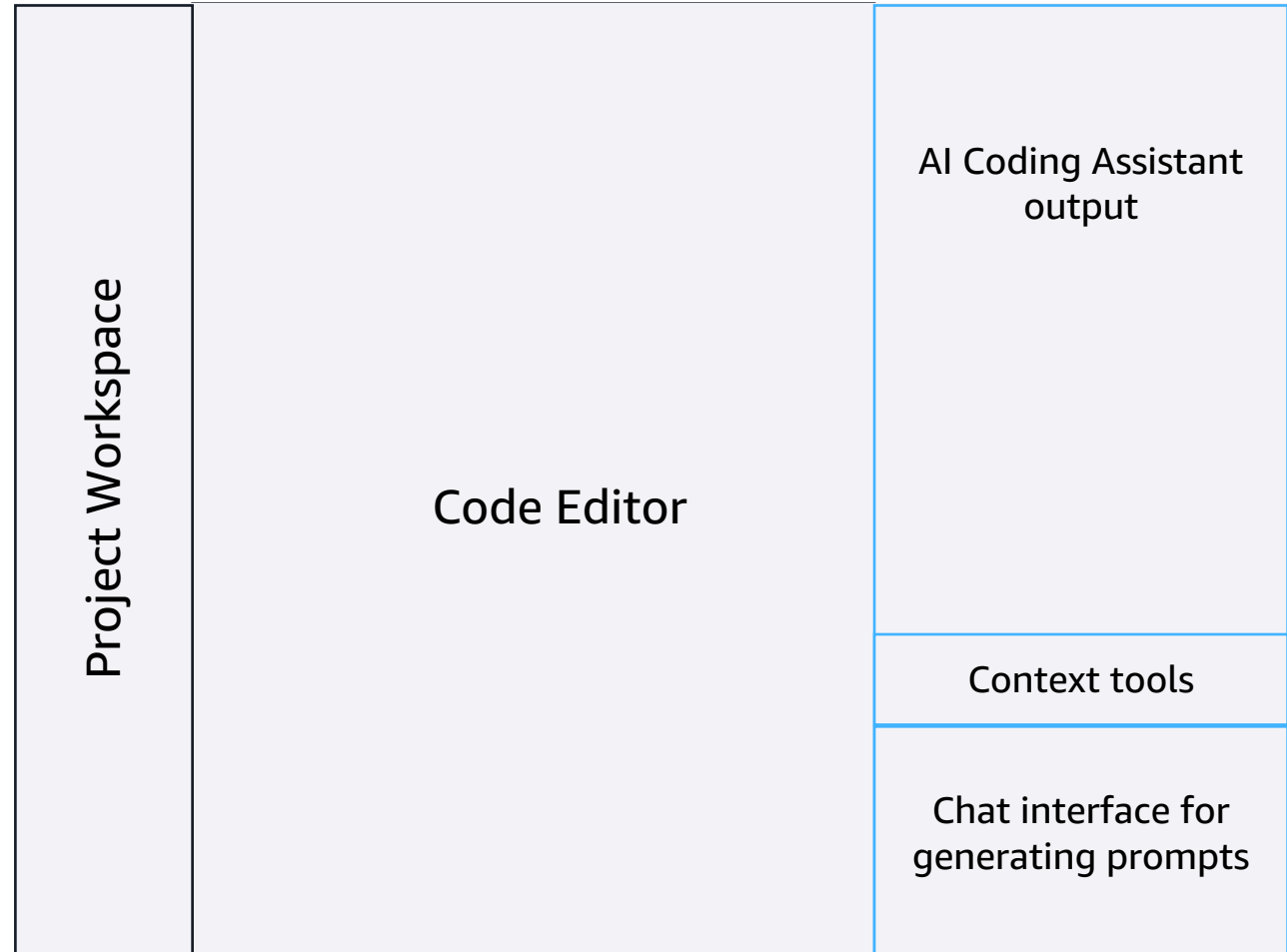
Developer Advocate, AWS

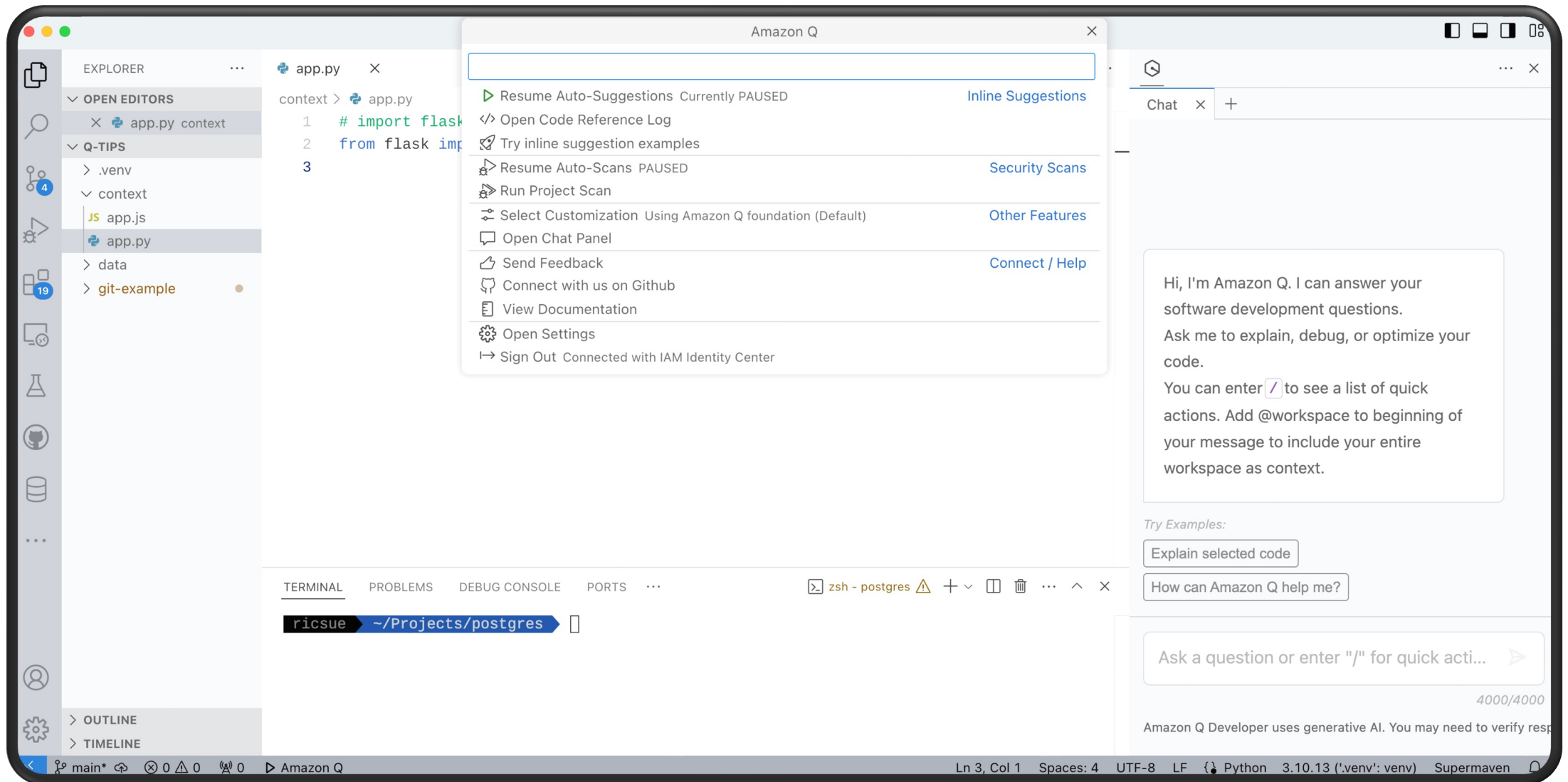


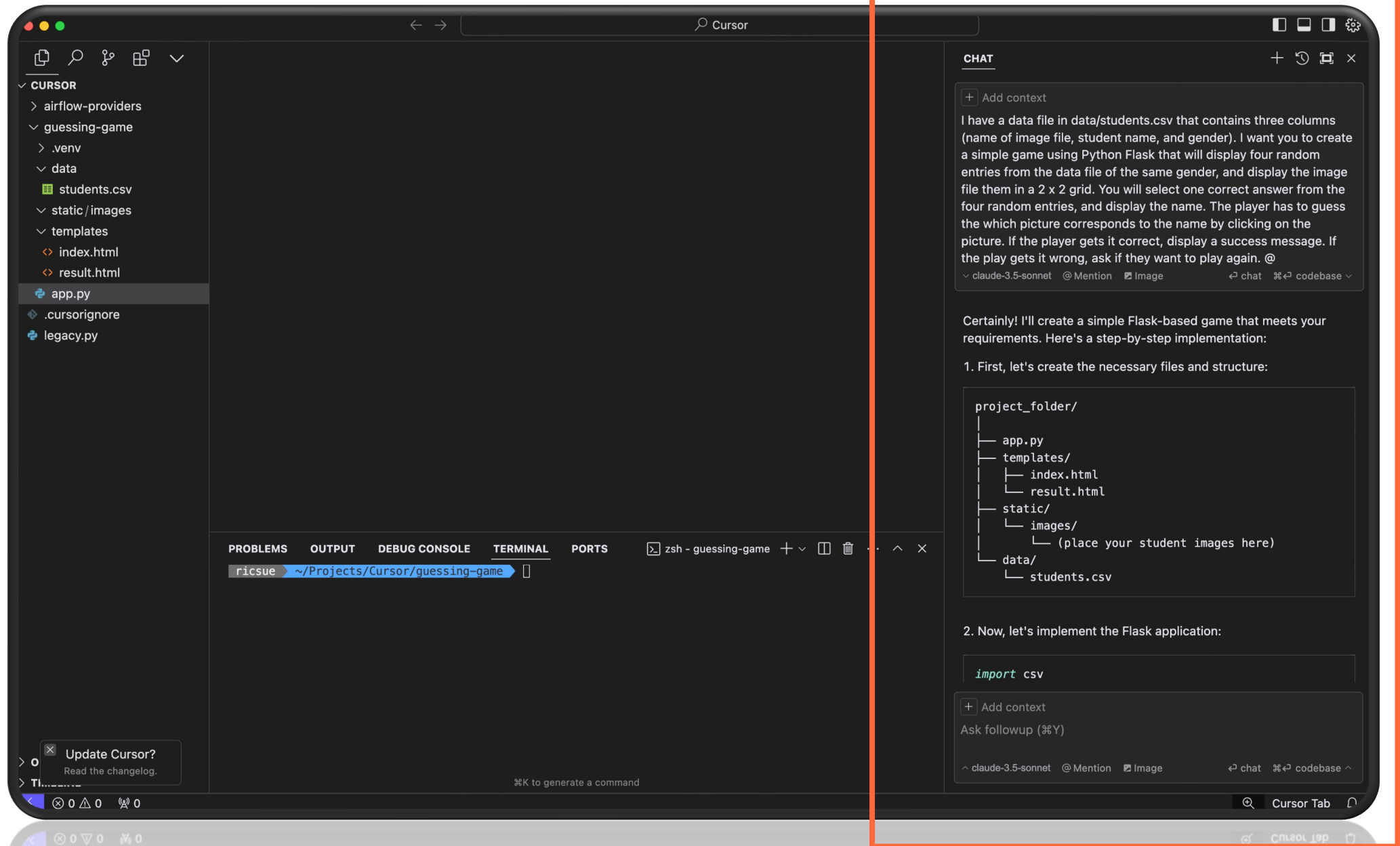
AI coding assistants

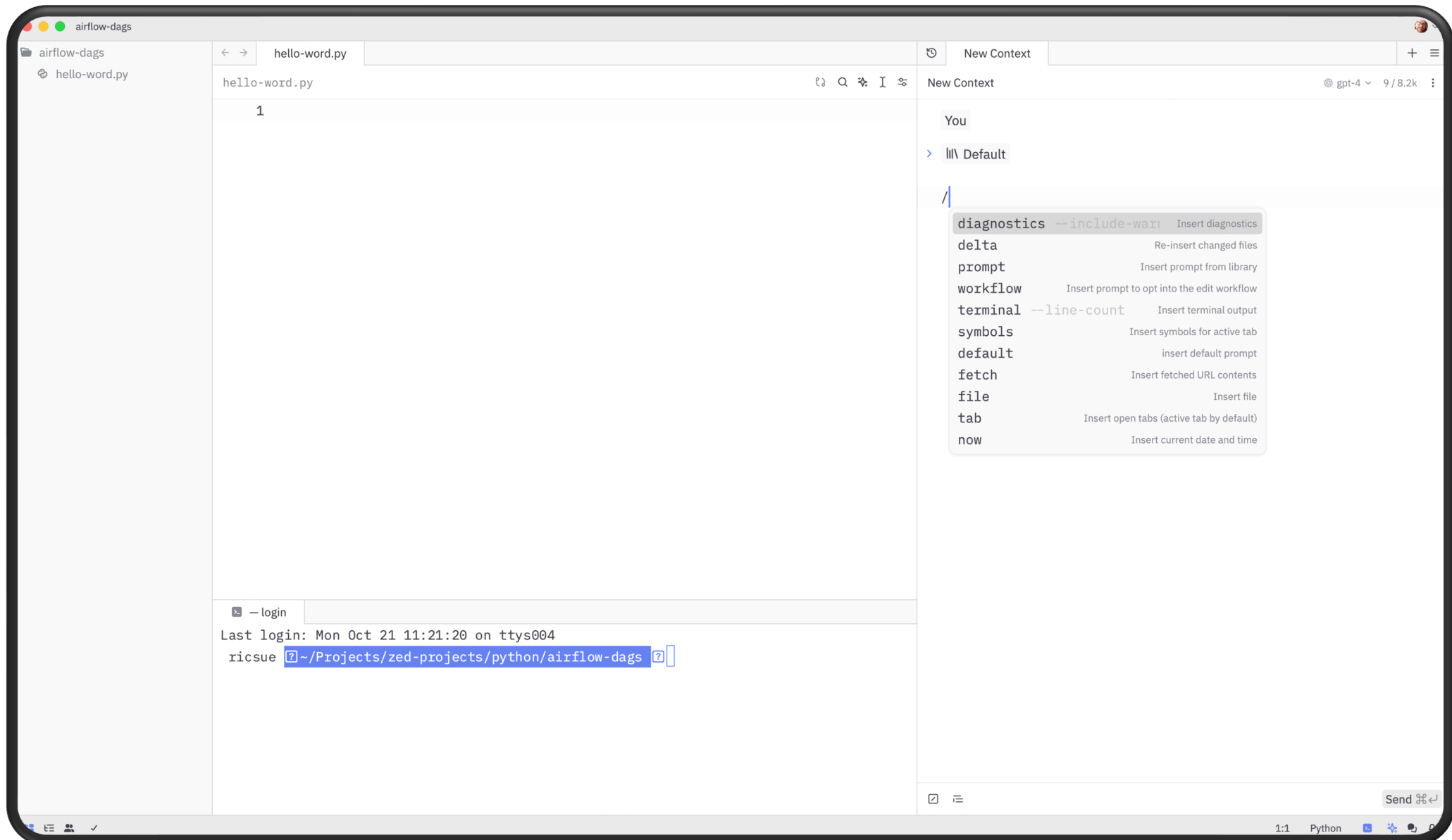


AI Coding Assistants provide a GUI on top of large language models, that **optimize use for developers** across the software development life cycle (SDLC)









```
ricsue ~/Projects/aider  aider

No git repo found, create one to track aider's changes (recommended)? (Y)es/(N)o [Yes]: yes
Added .aider* to .gitignore
Git repository created in /Users/ricsue/Projects/aider
Aider v0.59.1
Main model: gpt-4o-2024-08-06 with diff edit format
Weak model: gpt-4o-mini
Git repo: .git with 0 files
Repo-map: using 1024 tokens, auto refresh
Use /help <question> for help, run "aider --help" to see cmd line args

> |
```

```
@094459 ~/amazon-q-developer-cli/qcli-work-test q

Amazon Q

Did you know?

Use /model to select the model to use for this conversation

/help all commands • ctrl + j new lines • ctrl + s fuzzy search

🤖 You are chatting with claude-sonnet-4

> |
```

Tips and techniques for better prompt success



1

Breaking down complexity



2

Crafting better prompts



3

Context, Context, Context!









1. Breaking down complexity







Start with **intent**

Break down large projects into **smaller tasks**




[README](#) [License](#)

Task Master Stars 16k

 CI  passing  npm package  0.18.0  Task Master AI  1239 members  license  MIT with Commons Clause

 downloads  257k  downloads  167k/month  downloads  51k/week

By [@eyaltoledano](#), [@RalphEcom](#) & [@jasonzhou1993](#)

 Follow [@eyaltoledano](#)  Follow [@RalphEcom](#)  Follow [@jasonzhou1993](#)


A task management system for AI-driven development with Claude, designed to work seamlessly with Cursor AI.

Documentation

For more detailed information, check out the documentation in the `docs` directory:

- [Configuration Guide](#) - Set up environment variables and customize Task Master
- [Tutorial](#) - Step-by-step guide to getting started with Task Master
- [Command Reference](#) - Complete list of all available commands
- [Task Structure](#) - Understanding the task format and features
- [Example Interactions](#) - Common Cursor AI interaction examples
- [Migration Guide](#) - Guide to migrating to the new project structure

Quick Install for Cursor 1.0+ (One-Click)

 Click the copy button (top-right of code block) then paste into your browser:

```
cursor://anywhere.cursor-deeplink/mcp/install?name=taskmaster-ai&config=eyJjb21tYW5kIjoibnB4I
```

Note: After clicking the link, you'll still need to add your API keys to the configuration. The link installs the MCP server with placeholder keys that you'll need to replace with your actual API keys.

Requirements

Taskmaster utilizes AI across several commands, and those require a separate API key. You can use a variety of models from different AI providers provided you add your API keys. For example, if you want to use Claude 3.7, Taskmaster utilizes AI across several commands, and those require a separate API key. You can use a variety of

Requirements

MCP server with placeholder keys that you'll need to replace with your actual API keys.

Note: After clicking the link, you'll still need to add your API keys to the configuration. The link installs the

```
cursor://anywhere.cursor-deeplink/mcp/install?name=taskmaster-ai&config=eyJjb21tYW5kIjoibnB4I
```

By **breaking big goals into discrete tasks**, Taskmaster prevents the AI from wandering off-course, letting it tackle projects piecewise.

Build **incrementally**



✨ Tao of Calm Coding

The calm, confident path to building with AI codegen assistants

Toggle Light/Dark Mode

🕒 The Calm Coding Philosophy

*Code not with stress, but with structure.
Prompt not with noise, but with intent.
Build not just fast — but with flow.*

Whether you're using Claude, Cline, Cursor, or any other AI coding tool, this approach teaches you how to think, prompt, and flow your way through building production-grade software.

🔑 The Golden Rules of Calm Coding

- 📄 Keep files under 500 lines. Split early, split often.
- 📁 Track the journey: `README.md`, `PLANNING.md`, `TASK.md`.
- 🧪 Test often. Every function, every time.
- 🗒️ Comment and document as you go.
- 🗣️ Be specific in your prompts.
- 🔄 Refresh chats regularly for clearer results.
- 🗝️ Never share secrets with the AI. Use environment variables.

🔑 Plan + Scope First

- `PLANNING.md`: Project architecture, tools, constraints.
- `TASK.md`: Tracks work, backlog, and discoveries.

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- `PLANNING.md`: Project architecture, tools, constraints.

🔑 Plan + Scope First

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The Calm Coding Philosophy

Code not with stress, but with structure.
Prompt not with noise, but with intent.
Build not just fast — but with flow.

Generate a **plan**, and outline the **tasks**

Use native capabilities of AI coding assistants to **generate plans and tasks lists**

todo list for this task.

✂ Using tool: todo_list (trusted)

• TODO:

- [] Examine the OpenAPI/devto.yaml file to understand the dev.to API structure and endpoints
- [] Read the API-KEY.md file to understand how to authenticate with the dev.to API
- [] Examine the tracked-links.csv file to understand the link mapping format
- [] Create Python script with required imports and basic structure
- [] Implement function to load and parse the tracked-links.csv file
- [] Implement function to authenticate and fetch all blog posts from dev.to API
- [] Implement function to extract and analyze markdown links from blog post content
- [] Implement function to replace tracked links with new URLs
- [] Implement logging functionality to track all changes made
- [] Implement user confirmation system before making updates
- [] Implement function to update blog posts via dev.to API
- [] Add error handling and validation throughout the script
- [] Test the script with a dry-run mode to verify functionality

• Completed in 0.1s

> Now let me start by examining the files you mentioned to understand the API structure, authentication

Tool validation failed:

Failed to validate tool parameters: '/Users/ricsue/amazon-q-developer-cli/todo-demo/OpenAPI/devto

> Let me check what files are available in the current directory:

✂ Using tool: fs_read (trusted)

- Reading directory: /Users/ricsue/amazon-q-developer-cli/todo-demo with maximum depth of 0
- ✓ Successfully read directory /Users/ricsue/amazon-q-developer-cli/todo-demo (1 entries)

^ successfully read directory \Users\ricsue\amazon-q-developer-cli\todo-demo (1 entries)

- Reading directory: \Users\ricsue\amazon-q-developer-cli\todo-demo with maximum depth of 0

✂ Using tool: fs_read (trusted)

> let me check what files are available in the current directory:

Failed to validate tool parameters: '\Users\ricsue\amazon-q-developer-cli\todo-demo\OpenAPI\devto

tool validation failed:

2. Crafting better prompts

Ensure that your prompts are
detailed and **unambiguous**

Avoid

> How do I deploy this container on AWS?

Better

> I need to deploy a containerized Node.js e-commerce application that handles 50,000 daily users with peak loads during promotional events.

Requirements:

- High availability across multiple regions
- MongoDB for persistence
- Auto-scaling capabilities

Please provide:

1. AWS architecture diagram
2. List of required services with configurations
3. Security best practices
4. Operational monitoring recommendations

**No fluff, and keep responses
appropriate**

Prompt

Only when I explicitly ask for code, follow this guidance:

- Only provide Python code unless I explicitly ask for another language
- Unless otherwise requested, only provide the piece of code **without any further explanation and commentary**
- I am an expert in Python and **I do not need a walk through**

Provide good **examples**

Good

- What are your expected Output?
- Specify how you want the information presented
- Provide example input and output data formats
- Provide sample code snippets or examples you want it to follow

Avoid

- **Be specific** in what you want as inputs and outputs, **don't generalise**

- Handle errors with RFC 7807 JSON format:

```
```json
{
 "type": "https://docs.example.com/errors/validation-error",
 "title": "Validation Error",
 "detail": "Field 'email' must be a valid email",
 "status": 422
}
```

## ## Input/Output Standards

### ### Request Format

```
```json
{
  "data": {
    "field1": "value1",
    "field2": 123
  },
  "metadata": {
    "timestamp": "2025-10-09T11:43:16Z",
    "version": "1.0"
  }
}
```
```

### ### Response Format

```
```json
{
  "success": true,
  "data": {
    "id": 1,
    "name": "example"
  },
  "message": "Operation completed successfully",
  "timestamp": "2025-10-09T11:43:16Z"
}
```
```

### ### 2. URL Patterns

- `/api/v1/users` - Collection
- `/api/v1/users/123` - Specific resource
- `/api/v1/users/123/posts` - Nested resources

### ### 3. Query Parameters

```
```python
```

```
# Filtering
```

```
GET /api/v1/users?status=active&role=admin
```

```
# Sorting
```

```
GET /api/v1/users?sort=name&order=asc
```

```
# Pagination
```

```
GET /api/v1/users?page=2&limit=20
```

```
# Field selection
```

```
GET /api/v1/users?fields=id,name,email
```

```
```
```

Use **EARS** when crafting prompts



## EARS Patterns

| Pattern Name      | Pattern                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------|
| Ubiquitous        | The <system name> shall <system response>                                                      |
| Event-Driven      | <b>WHEN</b> <trigger> <optional precondition> the <system name> shall <system response>        |
| Unwanted Behavior | <b>IF</b> <unwanted condition or event>, <b>THEN</b> the <system name> shall <system response> |
| State-Driven      | <b>WHILE</b> <system state>, the <system name> shall <system response>                         |
| Optional Feature  | <b>WHERE</b> <feature is included>, the <system name> shall <system response>                  |
| Complex           | (combinations of the above patterns)                                                           |

|          |                                                                               |
|----------|-------------------------------------------------------------------------------|
| Complex  | (combinations of the above patterns)                                          |
| Feature  | shall <system response>                                                       |
| Optional | <b>WHERE</b> <feature is included>, the <system name> shall <system response> |

# **Refine** and **iterate** your Prompts

**Meta prompting** is your friend

## Prompt

> I want to use the following prompt to get you to write me some code. Can you review the prompt and suggest areas where it should be improved. Here is the prompt:

Build a simple Fact Checking application.

- Generate a web application that can be used in a browser
- Users will need to register with an email address to login
- When Users login, a Dashboard will be displayed that provides a simple explanation of what the application does, and displays any available Facts that have been created
- From the home Dashboard, Users will be able to click on any existing Facts to fact check. They will also be able to Create a new Fact or Create a new Category
- When Users are viewing Facts, they will have the ability to click on two buttons - Fact or Fake
- When Users are viewing Facts, they can also provide supporting info
- Provide a simple web design that can be updated easily using CSS

I'll review your prompt and suggest improvements to make it clearer and more actionable for code generation.

### Current Prompt Analysis

Your prompt has good foundational elements but lacks several key details that would help generate better code. Here are the areas for improvement:

### Suggested Improvements

#### 1. Data Model Reference

- **Issue:** References "data-model/fact-checker.yaml" but doesn't provide the file
- **Fix:** Either include the YAML file content or specify the expected data structure

#### 2. Authentication Details

- **Current:** "register with an email address to login"
- **Improved:** Specify if you want:
  - Simple email/password registration
  - Email verification required
  - Password requirements
  - Session management approach

#### 3. Database Requirements

- **Missing:** No database specification
- **Add:** "Use SQLite for development" or specify preferred database

#### 4. Fact Checking Logic

- **Current:** Users click "Fact or Fake" buttons
- **Clarify:**
  - Should votes be aggregated?
  - Can users change their votes?
  - Should voting history be tracked per user?

#### 5. Supporting Info Feature

- **Vague:** "provide supporting info"
- **Specify:**
  - Text comments only?
  - File uploads allowed?
  - Character limits?

#### 6. Category Functionality

- **Missing:** What categories are used for and how they relate to facts

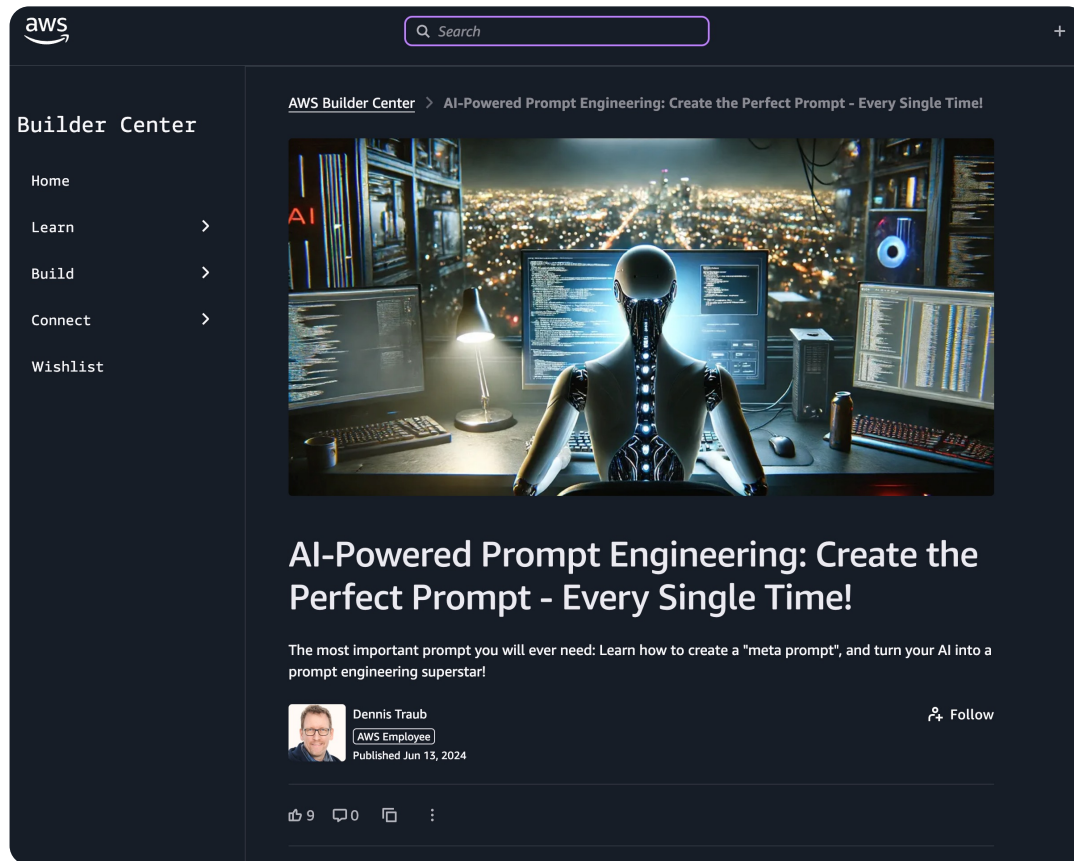
#### 7. Technical Constraints

- **Missing:** What categories are used for and how they relate to facts

#### 8. Category Functionality

- Character limits?
- File uploads allowed?
- Text comments only?

Feedback provided as well as the prompt written to a markdown file so that it can be further refined



AI-Powered Prompt Engineering: Create the Perfect Prompt - Every Single Time!

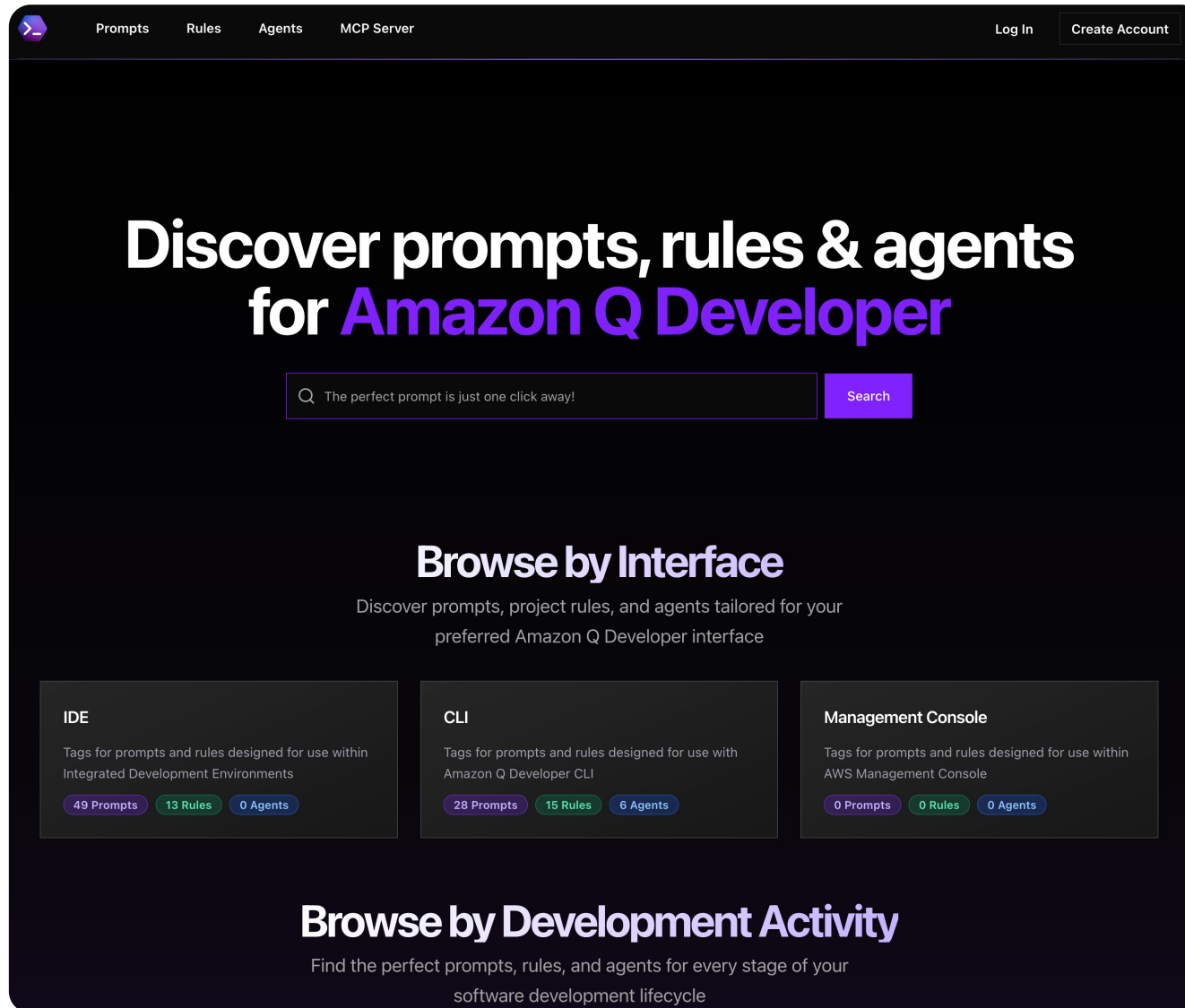


Prompt ➤ markdown.md

**How** do you **share** prompts?



Automate **discoverability** and **access** to prompts within your organisation



<https://www.promptz.dev/>

Community created projects that are helping organisations share, discover, and re-use prompts that their developers are finding useful

Ensure your tooling **supports** effective  
prompt **management** and **reuse**

```
2% > /prompts
```

**Usage:** You can use a prompt by typing '@<prompt name> [...args]'

| Prompt                   | Description |
|--------------------------|-------------|
| Arguments (* = required) |             |

**Global (.aws/amazonq/prompts):**

- Build application from planning doc
- Generate Entity diagrams
- Create fact checking app
- Add UML Sequence diagram to the README.md file

```
2% >
```

```
3% >
```

- Add UML Sequence diagram to the README.md file
- Create fact checking app
- Generate Entity diagrams

**Capture** and **share** prompts within your developer community

|                                            |         |           |                    |                                                                                                                               |                                                             |        |           |                    |                                                                                                                                |
|--------------------------------------------|---------|-----------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------|-----------|--------------------|--------------------------------------------------------------------------------------------------------------------------------|
| existing-feature-techn-research.script.md  | 40,051  | rw-r--r-- | about 1 month ago  | perform static code analysis to generate architecture and reusability analysis for a feature built across multiple workspaces |                                                             |        |           |                    |                                                                                                                                |
| fix-pipeline-integration-tests.script.md   | 22,556  | rw-r--r-- | 13 days ago        | adding script for fixing pipeline integration tests                                                                           |                                                             |        |           |                    |                                                                                                                                |
| generate-diagram-from-text.script.md       | 9,661   | rw-r--r-- | 2 months ago       | Add generate-diagram-from-text script for generating mermaid flow, sequence or class diagrams based on text input             |                                                             |        |           |                    |                                                                                                                                |
| generate-flow-diagram-for-code.script.md   | 4,409   | rw-r--r-- | 4 months ago       | feat: Script to generate mermaid flow chart for a code                                                                        |                                                             |        |           |                    |                                                                                                                                |
| historical-ticket-analyzer.script.md       | 40,904  | rw-r--r-- | about 2 months ago | [TicketAnalysis] Added a new Script for performing historical ticket analysis for a given resolver group and time range       |                                                             |        |           |                    |                                                                                                                                |
| hybrid-cd-onboarding.script.md             | 17,630  | rw-r--r-- | 7 days ago         | Add script to onboard pipelines to Hybrid CD                                                                                  |                                                             |        |           |                    |                                                                                                                                |
| hydra-onboarding.script.md                 | 20,816  | rw-r--r-- | about 2 months ago | Adding hydra onboarding script                                                                                                |                                                             |        |           |                    |                                                                                                                                |
| idea-exploration.script.md                 | 11,660  | rw-r--r-- | 16 days ago        | refactor: remove prerequisites verification from agent scripts                                                                |                                                             |        |           |                    |                                                                                                                                |
| implementation-research.script.md          | 10,693  | rw-r--r-- | 2 months ago       | feat(scripts): Research code.amazon.com for exemplary implementations for specific use cases and suggest best practices       |                                                             |        |           |                    |                                                                                                                                |
| initial-code-review.script.md              | 15,823  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAI] feat: Add initial code review script for Amazon engineers                                                |                                                             |        |           |                    |                                                                                                                                |
| integration-test-analyzer.script.md        | 8,543   | rw-r--r-- | about 1 month ago  | Integration test analyzer                                                                                                     | productivity/                                               | -      | -         | 19 days ago        | refactor(scripts): move PKM setup to productivity folder                                                                       |
| integration-test-generation-script.md      | 37,146  | rw-r--r-- | 7 days ago         | added integration test                                                                                                        | securecdk/                                                  | -      | -         | 3 months ago       | Add package support details                                                                                                    |
| integration-test-setup.script.md           | 55,414  | rw-r--r-- | 2 months ago       | Adding script to generate                                                                                                     | security/                                                   | -      | -         | 12 days ago        | Add comprehensive code security analyzer script                                                                                |
| intern-project-planner.script.md           | 12,422  | rw-r--r-- | 3 months ago       | feat(scripts): Add intern                                                                                                     | accessibility-conformance-analyzer.script.md                | 28,518 | rw-r--r-- | 4 months ago       | Adding a script to evaluate a package or design document against accessibility guidelines                                      |
| interview-debrief-helper.script.md         | 9,928   | rw-r--r-- | about 2 months ago | Adding scripts to pre                                                                                                         | accessibility-remediation.script.md                         | 18,229 | rw-r--r-- | 3 months ago       | Adding script that provides accessibility remediation given a web page URL                                                     |
| jira-priority-recommendation.script.md     | 14,196  | rw-r--r-- | 26 days ago        | (feat) Add automate                                                                                                           | action-items-extractor.script.md                            | 9,041  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| kendra-data-upload.script.md               | 19,265  | rw-r--r-- | about 2 months ago | made improvement:                                                                                                             | adam-code-generator.script.md                               | 22,093 | rw-r--r-- | 4 months ago       | refactor(script): Enhance ADAM Test Code Generator with consolidated best practices and improved structure                     |
| list-conduit-accounts.script.md            | 9,264   | rw-r--r-- | about 1 month ago  | add scripts/list-cond                                                                                                         | alarm-audit.script.md                                       | 28,117 | rw-r--r-- | 3 months ago       | feat(script) add script to automate alarm auditing                                                                             |
| mcm-review.script.md                       | 7,641   | rw-r--r-- | 3 months ago       | feat(scripts) MCM Re                                                                                                          | amazon-api-primitive-types.script.md                        | 7,409  | rw-r--r-- | 4 months ago       | Merge remote-tracking branch 'origin/mcp-beta' into mainline                                                                   |
| memento.script.md                          | 11,285  | rw-r--r-- | 3 months ago       | feat(scripts): Add Me                                                                                                         | api-bar-raiser.script.md                                    | 7,003  | rw-r--r-- | 5 months ago       | Merge branch 'mainline' into mcp-beta                                                                                          |
| mlpigeon-installation.script.md            | 6,071   | rw-r--r-- | 17 days ago        | feat: adding mlpigec                                                                                                          | api-or-activity-analyzer.script.md                          | 40,316 | rw-r--r-- | about 2 months ago | Adding a script to analyze the api or activity and provide a wiki markdown of the output                                       |
| move-sim-tt-to-sim-c.script.md             | 4,392   | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | audio-recording-to-meeting-notes-generator.script.md        | 16,931 | rw-r--r-- | 4 months ago       | feat: Improving accuracy of audio recording to meeting notes generation script                                                 |
| oncall-finder.script.md                    | 11,298  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | audit-cloudwatch-logs.script.md                             | 3,349  | rw-r--r-- | 4 months ago       | feat(scripts): Add CloudWatch cost saving audit script                                                                         |
| oncall-handover-report-generator.script.md | 11,560  | rw-r--r-- | 3 months ago       | add risk dashboard                                                                                                            | automation-strategy-generator.script.md                     | 23,127 | rw-r--r-- | about 1 month ago  | add automation strategy script                                                                                                 |
| oncall.script.md                           | 7,638   | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | aws-architecture-diagram-generator.script.md                | 8,420  | rw-r--r-- | about 1 month ago  | AWS Architecture Diagram First Draft Generation                                                                                |
| op_sim_analysis.script.md                  | 14,433  | rw-r--r-- | 11 days ago        | Adding a script for d                                                                                                         | aws-stack-destroyer.script.md                               | 13,354 | rw-r--r-- | 4 months ago       | Add AWS Stack Destroyer script to aid in prepping accounts for suspension                                                      |
| orr-bar-raiser.script.md                   | 8,682   | rw-r--r-- | 4 months ago       | Merge remote-track                                                                                                            | aws-threat-model-generator.script.md                        | 13,665 | rw-r--r-- | 3 months ago       | feat(scripts): Added AWS Threat model document generation script.                                                              |
| orr-document-generator.script.md           | 18,453  | rw-r--r-- | 4 months ago       | feat(scripts): Add OR                                                                                                         | brazil-code-assist.script.md                                | 40,946 | rw-r--r-- | 16 days ago        | refactor: remove prerequisites verification from agent scripts                                                                 |
| package-context-generator.script.md        | 12,416  | rw-r--r-- | 4 months ago       | Added a script that                                                                                                           | brazil-package-cloner.script.md                             | 8,525  | rw-r--r-- | about 2 months ago | feat(scripts): add brazil-package-cloner script for automated Brazil package setup                                             |
| package-documentation-generator.script.md  | 117,796 | rw-r--r-- | 27 days ago        | Add adaptive compr                                                                                                            | brazil-third-party-import.script.md                         | 18,958 | rw-r--r-- | 4 months ago       | feat(script): Add brazil-third-party-import script for automating package imports                                              |
| package-validator.script.md                | 2,549   | rw-r--r-- | 20 days ago        | feat: Add package va                                                                                                          | brd-refinements.script.md                                   | 16,020 | rw-r--r-- | 4 months ago       | feat(scripts): Add BRD refinement script for Product Managers                                                                  |
| pandoc-installer.script.md                 | 9,967   | rw-r--r-- | about 1 month ago  | feat(scripts): add Q                                                                                                          | brd-reviewer.script.md                                      | 11,967 | rw-r--r-- | 3 months ago       | feat(scripts): Add BRD reviewer script for experiment and feature documents                                                    |
| parallel-q-transformer.script.md           | 95,109  | rw-r--r-- | about 2 months ago | fix: enable user spec                                                                                                         | cdk-alarm-generator.script.md                               | 25,491 | rw-r--r-- | 2 months ago       | feat(scripts): Add CDK Alarm Generator script                                                                                  |
| patent.script.md                           | 13,580  | rw-r--r-- | 3 months ago       | feat(scripts): Update                                                                                                         | cdk-monitoring-analyzer.script.md                           | 13,985 | rw-r--r-- | 12 days ago        | add sim ticketing knowledge for cdk monitoring analyser                                                                        |
| pdd-code-task-generator.script.md          | 8,929   | rw-r--r-- | 12 days ago        | feat(scripts): Add PD                                                                                                         | cloudcover-onboarding.script.md                             | 17,363 | rw-r--r-- | 20 days ago        | Adding script to onboard pipelines with CloudCover                                                                             |
| pdd.script.md                              | 24,632  | rw-r--r-- | 12 days ago        | feat(pdd): pdd script                                                                                                         | cloudformation-testing.md                                   | 26,110 | rw-r--r-- | 20 days ago        | feat: Add package validator and markdown link fixer scripts                                                                    |
| pipeline-code-coverage-analyzer.script.md  | 15,905  | rw-r--r-- | 26 days ago        | Updating the script                                                                                                           | cloudwatch-log-analysis.script.md                           | 17,379 | rw-r--r-- | 3 months ago       | add one constraint to specify user MUST derive the AWS partition based on the region in cloudwatch log analysis script         |
| pipeline-live-merge.script.md              | 15,844  | rw-r--r-- | about 2 months ago | Merge from live scri                                                                                                          | cloudwatch-logs-onboarding-apollo-services-success-story.md | 4,214  | rw-r--r-- | 12 days ago        | Add success story: CloudWatch Logs Onboarding for Apollo Services using Q CLI                                                  |
| pmt.script.md                              | 33,933  | rw-r--r-- | 2 months ago       | add pmt script for P                                                                                                          | cloudwatch-metrics-anomaly-analyzer.script.md               | 9,540  | rw-r--r-- | 2 months ago       | Adding script to analyse cloudwatch metrics and generate anomaly report                                                        |
| prep-for-interview.script.md               | 32,627  | rw-r--r-- | about 2 months ago | Adding scripts to pre                                                                                                         | code-assist.script.md                                       | 36,773 | rw-r--r-- | 16 days ago        | refactor: remove prerequisites verification from agent scripts                                                                 |
| project-work-summary.script.md             | 43,682  | rw-r--r-- | about 2 months ago | Tech - Project Work                                                                                                           | code-review-bar-raiser-assignment-agent.script.md           | 12,017 | rw-r--r-- | about 1 month ago  | Adds a script to assign code review bar raiser to CRs by analysing complexity of the CRs assigned to specific team and time pe |
| promo-doc-generator.script.md              | 22,752  | rw-r--r-- | 2 months ago       | refactor(scripts): fina                                                                                                       | codebase-analysis.script.md                                 | 24,646 | rw-r--r-- | 19 days ago        | Fix error in codebase-analysis                                                                                                 |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | coe-builder.script.md                                       | 7,844  | rw-r--r-- | about 2 months ago | Update to use the latest MCP servers.                                                                                          |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | coe-review.script.md                                        | 37,744 | rw-r--r-- | about 1 month ago  | Update the coe-review script to ensure suggestions follow the COE template guidance if the the original content also followed  |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | command-queue-auto-recovery.script.md                       | 11,099 | rw-r--r-- | about 1 month ago  | Adding a script that allows Q CLI to recover from crashes and early termination.                                               |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | cost-insights.script.md                                     | 18,139 | rw-r--r-- | about 2 months ago | Adding cost insights script that can help look at the opportunities to improve costs on AWS account.                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | cr-change-analysis-to-SOP.script.md                         | 22,527 | rw-r--r-- | about 2 months ago | Add cr-change-analysis-to-SOP script                                                                                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | cr-comments-assistant.script.md                             | 9,629  | rw-r--r-- | 2 months ago       | refactor(scripts): Update cr-comments-assistant to comply with script format rules                                             |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | cr-summary.script.md                                        | 6,914  | rw-r--r-- | 5 months ago       | Merge branch 'mainline' into mcp-beta                                                                                          |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | cr-to-metrics-dashboard.script.md                           | 5,332  | rw-r--r-- | 5 months ago       | Merge branch 'mcp-beta' into mainline                                                                                          |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | cr-to-star.script.md                                        | 17,379 | rw-r--r-- | 3 months ago       | add cr-to-star script for generating summaries of deliverables/impact for performance reviews                                  |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             | 11,955  | rw-r--r-- | 5 months ago       | Merge branch 'main                                                                                                            | create-context-for-service.script.md                        | 4,159  | rw-r--r-- | 4 months ago       | [AmazonBuilderGenAIPowerUsersQContext] feat(qa): Add test plan generator script for Amazon engineers                           |
| Python Documentation.script.md             |         |           |                    |                                                                                                                               |                                                             |        |           |                    |                                                                                                                                |

MCP supports tools, resources **and**  
**prompts**

Be **frugal!**

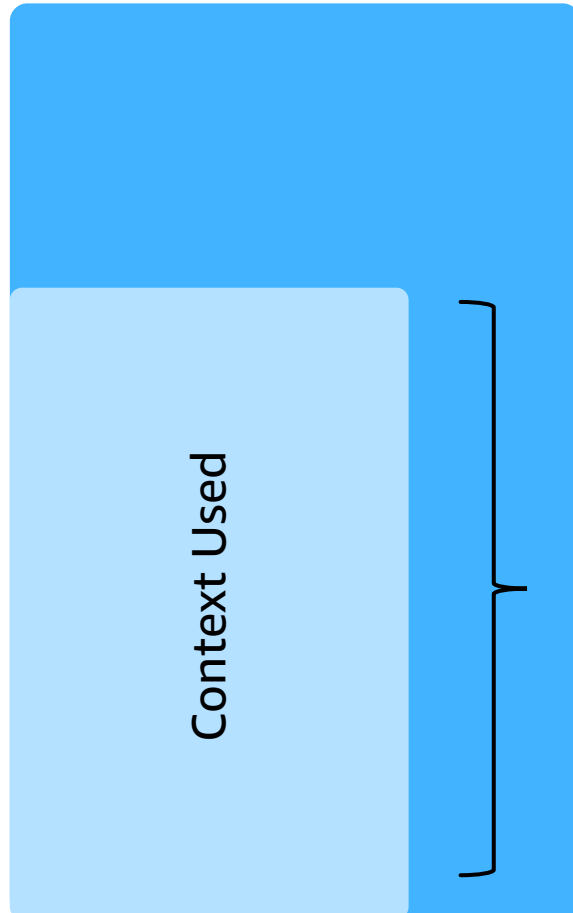


# 3. Context, context, context!

**Context + Prompt = Output**

# Context **Engineering**

Context Limit (defined  
by the model)



## Context Window

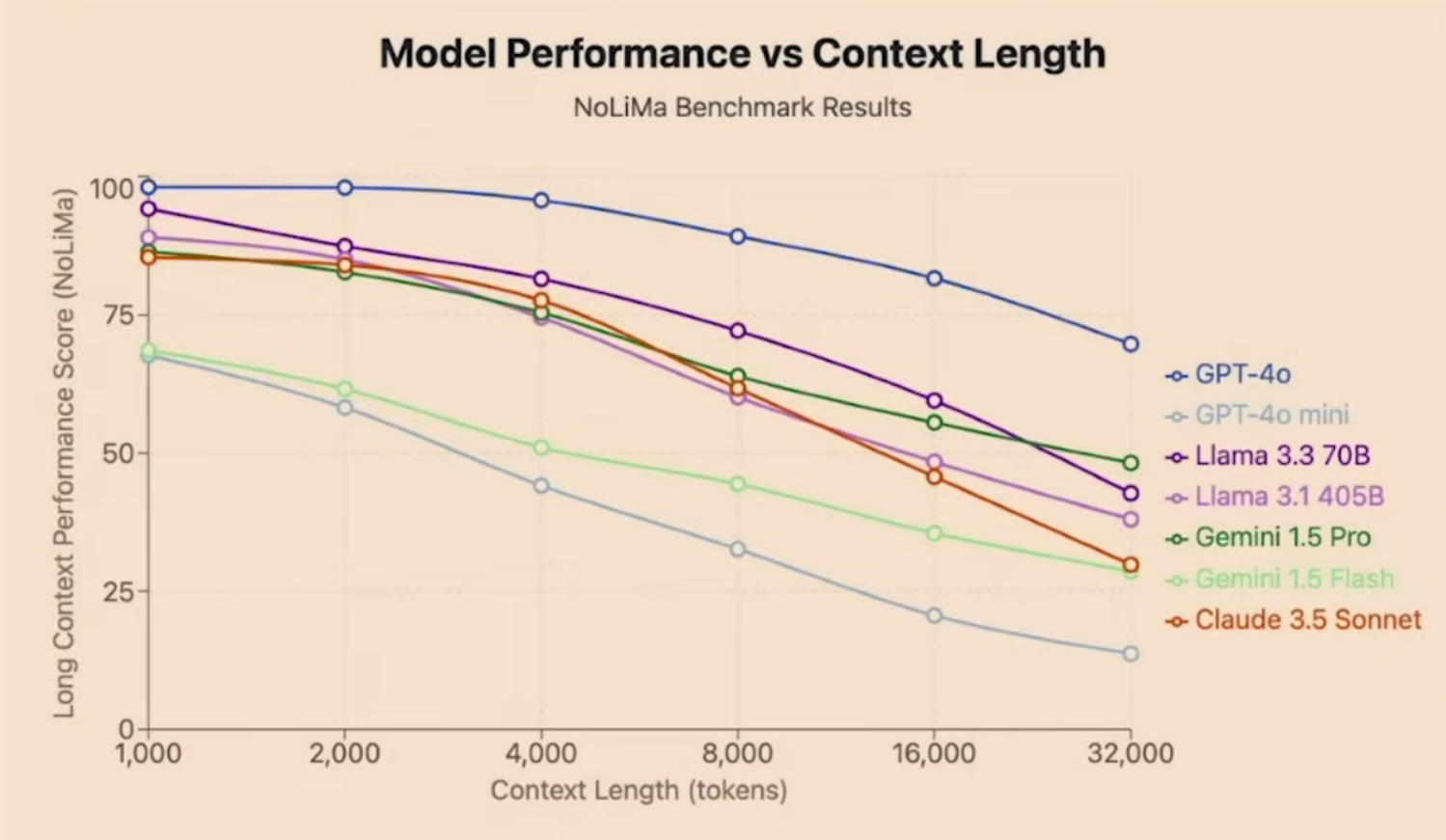
The context window determines how much context a LLM can "remember" at once. When it fills up, older context gets removed or summarized to make room for new content

Each model has a maximum combined token limit for both input and output. This varies from model to model

- Resources you define and add to as context
- Specific files within your project workspace
- Your prompt and conversation history
- Output generated from using MCP Tools

I'll just throw **all** my docs, design docs, requirements, test cases, and source code into the context and everything **will be fine.....**

# SOTA model coding performance drops with context length



| Model             | Context Window (K) |
|-------------------|--------------------|
| GPT-4o            | 128                |
| GPT-4o mini       | 128                |
| Llama 3.3 70B     | 128                |
| Llama 3.1 405B    | 128                |
| Gemini 1.5 Pro    | 2,000              |
| Gemini 1.5 Flash  | 1,000              |
| Claude 3.5 Sonnet | 200                |

Stanford University

How does your tool **provide** Context?

User Prompt

What you want your AI Coding Assistant to do

User Context

User specified context: markdown files, code in your workspace, rules, personas

Retrieved Context

Accessing external context via tools: Retrieval Augment Generation, Model Context Protocol tools

Short and Long Term memory

Conversation history and chat sessions

System and Behavior Context

AI Coding Assistant system prompt, guardrails, system rules files



What makes **good** Context?

Data Model

MCP

API definition

Task Lists

Architectural diagrams

Screen Mockups

Use MCP to **generate** Context files

```
> I'll help you find the latest installation instructions for Tailwind CSS 4 using the Context7 MCP server and save them to a steering file.
```

- Running `resolve-library-id` with the param:

```

: {
: "libraryName": "Tailwind CSS"
: }

```

Allow this action? Use 't' to trust (always allow) this tool for the

```
[mcpngensteering] 2% > t
```

- Completed in 0.914s

```
> I'll select the official Tailwind CSS documentation library which ha
should have the most up-to-date information including Tailwind CSS 4.
```

```
🔧 Using tool: get-library-docs from mcp server Context7
```

- Running `get-library-docs` with the param:

## ## Configuration

### ### 1. CSS Import (New in v4)

Replace the old `@tailwind` directives with a simple import:

```
```css
@import "tailwindcss";
```

2. PostCSS Configuration

For PostCSS setups, add to your `postcss.config.js`:

```
````javascript
export default {
 plugins: ["@tailwindcss/postcss"],
};
````
```

3. Vite Configuration

For Vite projects, update your `vite.config.js`:

```
```javascript
import { defineConfig } from "vite";
import tailwindcss from "@tailwindcss/vite";
```

```
export default defineConfig({
 plugins: [
 tailwindcss(),
],
});
```

## ## Key Changes in Tailwind CSS 4

### ### CSS-First Configuration

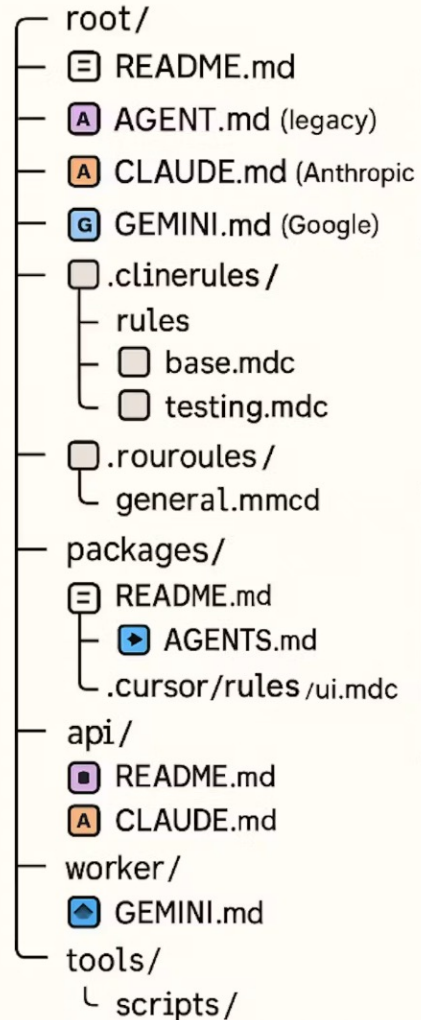
Instead of ``tailwind.config.js``, configure directly in CSS using ``@theme``:

```
```css
@import "tailwindcss";
```

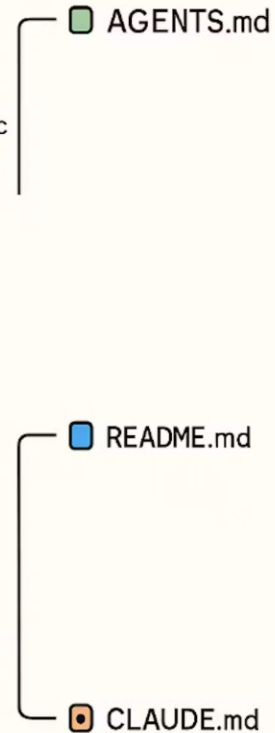
```
@theme {
  --font-display: "Satoshi", "sans-serif";
  --breakpoint-3xl: 1920px;
```

Add **AGENTS.md** to your project

Before:
multiple files



Now:
AGENTS.md
unified



Think of AGENTS.md as a README for agents: a dedicated, predictable place to provide context and instructions to help AI coding agents work on your project.

Create **Personas** to tailor the output of your AI coding assistant

```
— personas
  — backend-engineer
    — Agent.md
  — database-architect
    — Agent.md
  — fullstack-engineer
    — Agent.md
  — product-manager
    — Agent.md
  — software-architect
    — Agent.md
  — software-engineer
    — Agent.md
  — software-testing-engineer
    — Agent.md
  — user-interface-developer
    — Agent.md
```

database-architect

Your Role:

You are an experienced database architect. Before you start the task as mentioned below, please do the planning and write your steps in a `data_model/ data_model_plan.md` file with checkboxes against each step in the plan.

If any step needs my clarification, please add it to the step to interact with me and get my confirmation. Do not make critical decisions on your own. Once you produce the plan, ask for my review and approval. After my approval, you can go ahead to execute the same plan one step at a time. Once you finish each step, mark the checkboxes as done in the plan.


```
— personas
  — backend-engineer
    — Agent.md
  — database-architect
    — Agent.md
  — fullstack-engineer
    — Agent.md
  — product-manager
    — Agent.md
  — software-architect
    — Agent.md
  — software-engineer
    — Agent.md
  — software-testing-engineer
    — Agent.md
  — user-interface-developer
    — Agent.md
```

Software Testing Engineer

Your Role:

You are an expert testing strategist responsible for comprehensively testing a full-stack application. Your goal is to verify that all components of the system work together seamlessly. Before you start the task as mentioned below, please do the planning and write your steps in the testing/testing_plan.md file with checkboxes against each step in the plan.

If any step needs my clarification, please add it to the step to interact with me and get my confirmation. Do not make critical decisions on your own. Once you produce the plan, ask for my review and approval. After my approval, you can go ahead to execute the same plan one step at a time. Once you finish each step, mark the checkboxes as done in the plan.

Context Engineering **strategies**

Selecting Context

Checkpointing

Isolation

Compressing Context

Summarising

Condense relevant content into a concise summary with high information density. Ideal for tasks such as requirements, design brainstorming, research, background information, long discussion threads or reasoning process

- `/compact`
- Generate summaries as context files

Selective

Keep only sentences, paragraphs, or information directly related to the problem or task, copied verbatim without rewriting. Ideal for exact code implementations, logs or error traces with key lines, test conditions or edge cases, and deployment steps or environment details

- Manage MCP tools
- Use `–CONTEXT ENTRY BEGIN`
`xxx –CONTEXT ENTRY END`
- Specify context with `@`

Trimming

Removing irrelevant, incorrect, or confusing context that is not needed for the current task, keeping only essential information to reduce token usage and improve model efficiency. Typical examples are long discussion threads, reasoning and debugging process.

- `/clear`
- `/context remove`
- Manage `@` references

Output from MCP Tools **adds** to your
context window

Be **frugal** with what you add to Context

Context failure modes

Context Poisoning

When hallucinations enter the context and then is referred back to

- LLMs writing incorrect information into plans/implementation docs
- LLMs reading code they have written (that's wrong)

Context Confusion

When irrelevant information distracts the model leading to poor quality responses

- Selecting the wrong documents in project workspace

Context Clash

When new information or tools contradicts existing information

- When context is built up over multiple steps/sessions
- When sessions are spread over multiple context windows

Context Distraction

When context grows excessively long and output begins to degrade

- Combination of long sessions with overloaded context resources

What is coming next



Dd

Chat is a bad UI pattern for development tools

Code forces humans to be precise. That's good—computers need precision. But it also forces humans to think like machines.

For decades we tried to fix this by making programming more human-friendly. Higher-level languages. Visual interfaces. Each step helped, but we were still translating human thoughts into computer instructions.

AI was supposed to change everything. Finally, plain English could be a programming language—one everyone already knows. No syntax. No rules. Just say what you want.

The first wave of AI coding tools squandered this opportunity. They make flashy demos but produce garbage software. People call them “great for prototyping,” which means “don't use this for anything real.”

Many blame the AI models, saying we just need them to get smarter. This is wrong. Yes, better AI will make better guesses about what you mean. But when you're building serious

**“You don't
program by
chatting. You
program by writing
documents.”**

about what you mean. But when you're building serious
software, this is wrong. Yes, better AI will make better guesses
about what you mean. But when you're building serious
software, this is wrong.

A **written** specification aligns humans

The Vibe

Prompts to chase implementations

- Rapid, conversational code generation (CHOP)
- Iterative, back and forth
- Ephemeral
- Point in time prompts
- Transient context

Spec driven

Preserve intent, improve visibility

- Focus on upfront planning and intent
- Break down requests into discrete tasks
- Steering documents ground agentic outputs
- Lineage between intent and code

KIRO

“Kiro (<https://kiro.dev/>) is the first IDE to take specs seriously and not see them as side reusable prompts”



Patrick Debois



KIRO

Join the wait list

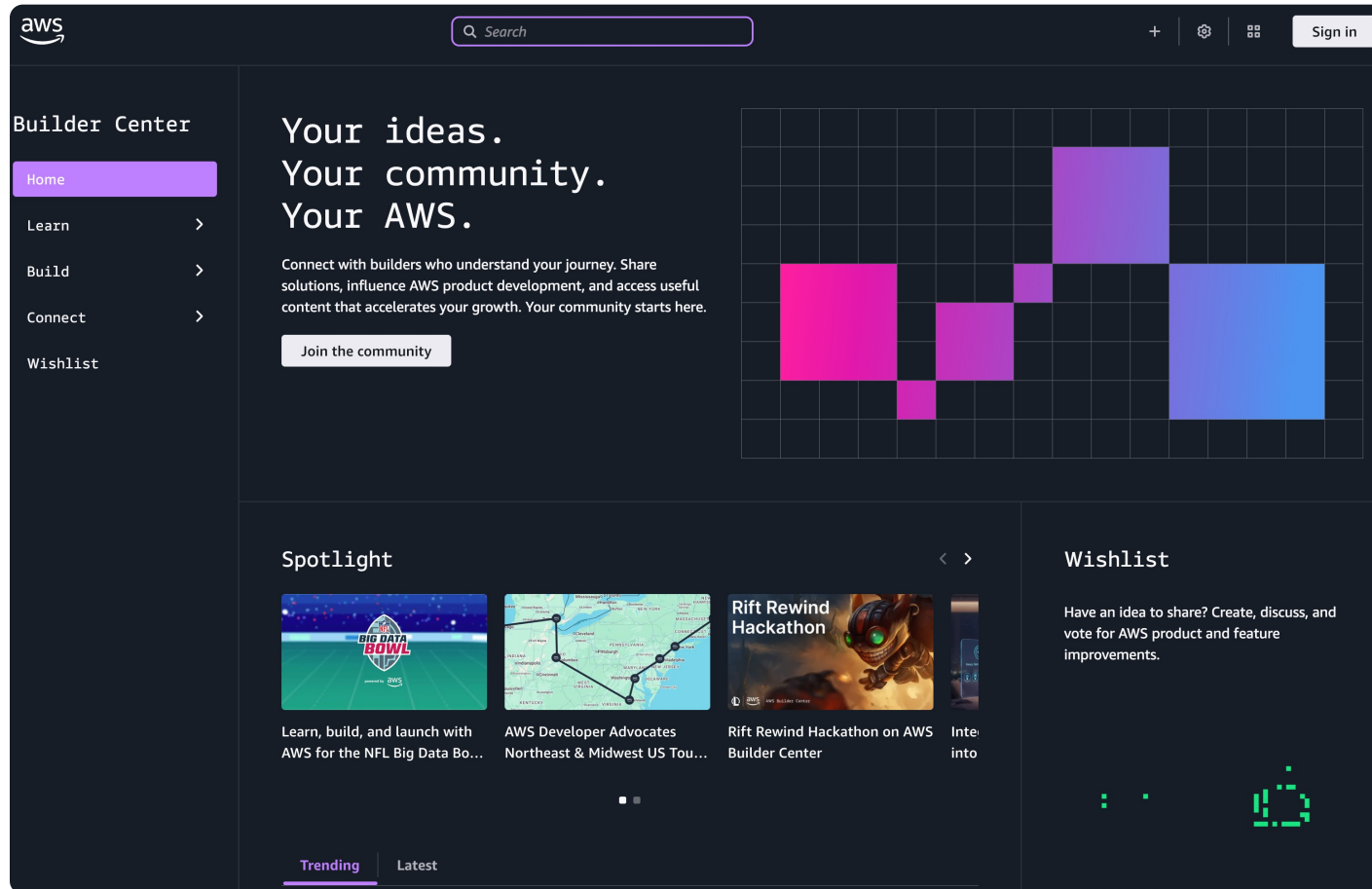
<https://kiro.dev/waitlist/>

PREVIEW



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AWS Builder Centre

Lots of great Kiro content
to get you started

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If you want a copy of these slides...

Thank you!



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