



RWAI Arena 质量保证体系

从代码到体验的全链路交付标准

Version: 1.0

Maintained By: RWAI Development Team

Last Updated: 2025-01-29

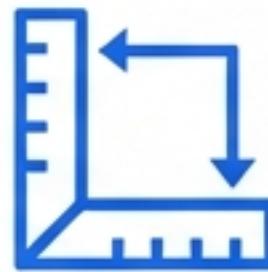
质量工程宣言

质量不是事后的修补，
而是设计的基石。”



目标 (Goal)

确保每一次更新在部署前都
严格符合质量标准。



范围 (Scope)

覆盖双语一致性、视觉还原
度、组件功能、性能与无障
碍访问。



执行 (Execution)

任何重大变更后必须执行的
强制性检查清单。

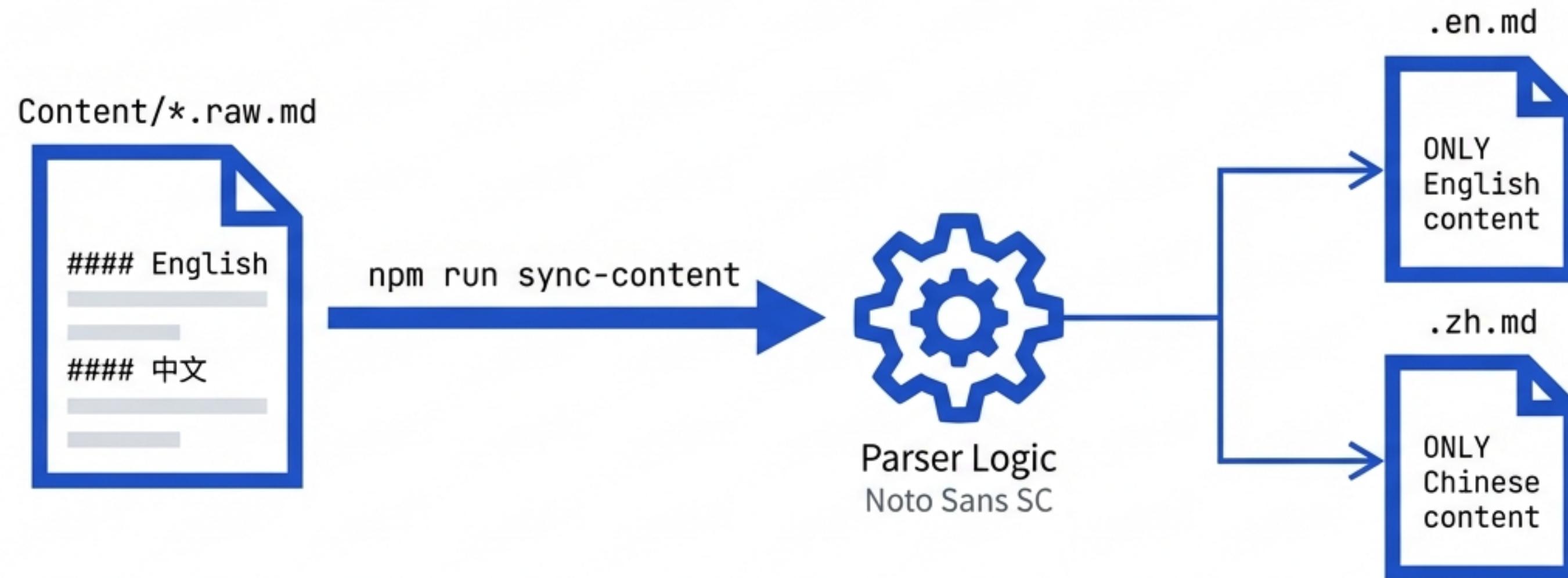
USAGE: RUN THROUGH THIS CHECKLIST AFTER COMPLETING ANY SIGNIFICANT CHANGES.

基石：单一事实来源 (Single Source of Truth)

原则：PRD 文档和 Content/ 文件是唯一的真理来源。



支柱一：双语内容完整性



零容忍原则 (Zero Tolerance)

Dark Slate Noto Sans SC

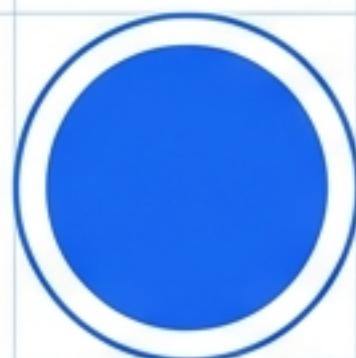
禁止混合标题（如 'Deployment 部署'）。英文文件绝不含中文字符。中文界面绝不含英文文本（术语除外）。

Slate Gray Noto Sans SC

支柱二：视觉设计一致性

COLOR SYSTEM

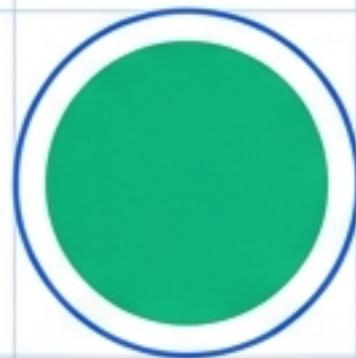
Noto Sans SC



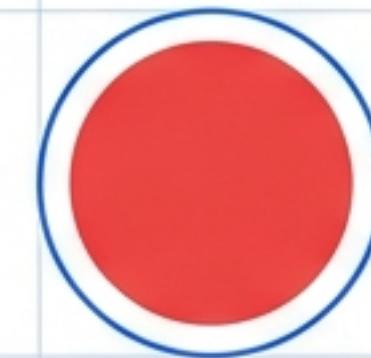
Primary
#155EEF



Text Primary
#0F172A



Success
#10B981



Error
#EF4444

TYPOGRAPHY

Noto Sans SC

**Hero Title
(48-64px)**

**Section Title
(36-48px)**

Body Text (16px)

COMPONENT SPECS

Noto Sans SC



Verified



Iconography: Lucide
React Only (NO Emojis)
JetBrains Mono

支柱三：组件架构实现（The Blueprint）

Arena Detail Page

The diagram illustrates the structure of the Arena Detail Page. It features a header with a logo, language switch (EN | ZH), and a title 'GPT-4 Turbo' with a 'Verified' badge. Below the header is a navigation bar with tabs: Overview, Implementation, Requirements..., and a back arrow. A 'Metrics Section' contains four cards: Progress (335 values), Zap bolt (329 values), Progress (325 values), and Shield (335 values). The main content area includes a heading 'Main Content' followed by three identical sections, each with a heading 'Heading heading' and a paragraph of placeholder text. To the right is a 'Technical Details' sidebar with sections for 'Specifications' (listing 'Specification 2' and 'Specification s') and 'Code snippets' (displaying two code blocks). A vertical line labeled 'Markdown Rendering' points from the left towards the main content area. Annotations on the right side highlight 'Sticky Top-16 in JetBrains Mono' for the font used in the header and '4-Pillar System' for the layout structure.

GPT-4 Turbo

EN | ZH switch

Verified

Overview Implementation Requirements... ←

Metrics Section

Progress 335 values

Zap bolt 329 values

Progress 325 values

Shield 335 values

Main Content

Heading heading

Markdown Rendering →

Heading heading

Heading heading

Technical Details

Specifications

Specification 2

Specification s

Code snippets

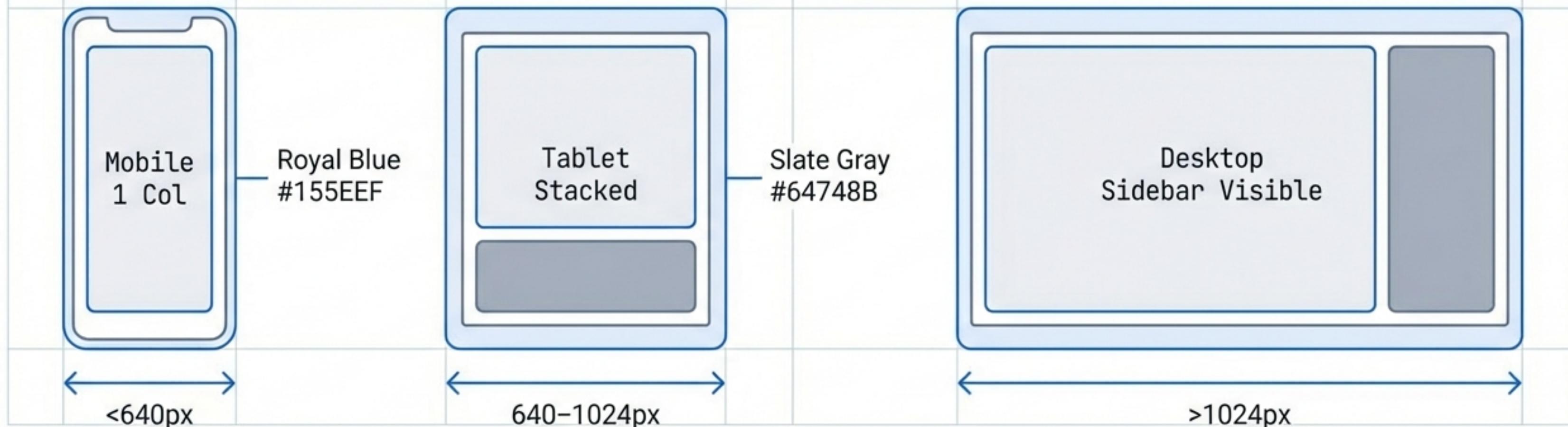
```
for main {  
    return = false;  
}  
  
for test {  
    return = true;  
}
```

Sticky Top-16 in JetBrains Mono

4-Pillar System

技术稳健性：响应式与无障碍

响应式设计 (Responsive)



技术指标 (Technical Indicators)

Interaction 交互

Noto Sans SC



Touch Targets: Min 44px.
No hover-only critical paths.

System Health 系统健康

Noto Sans SC



Build: Zero Errors.
Clean Console.

A11y 无障碍

Noto Sans SC

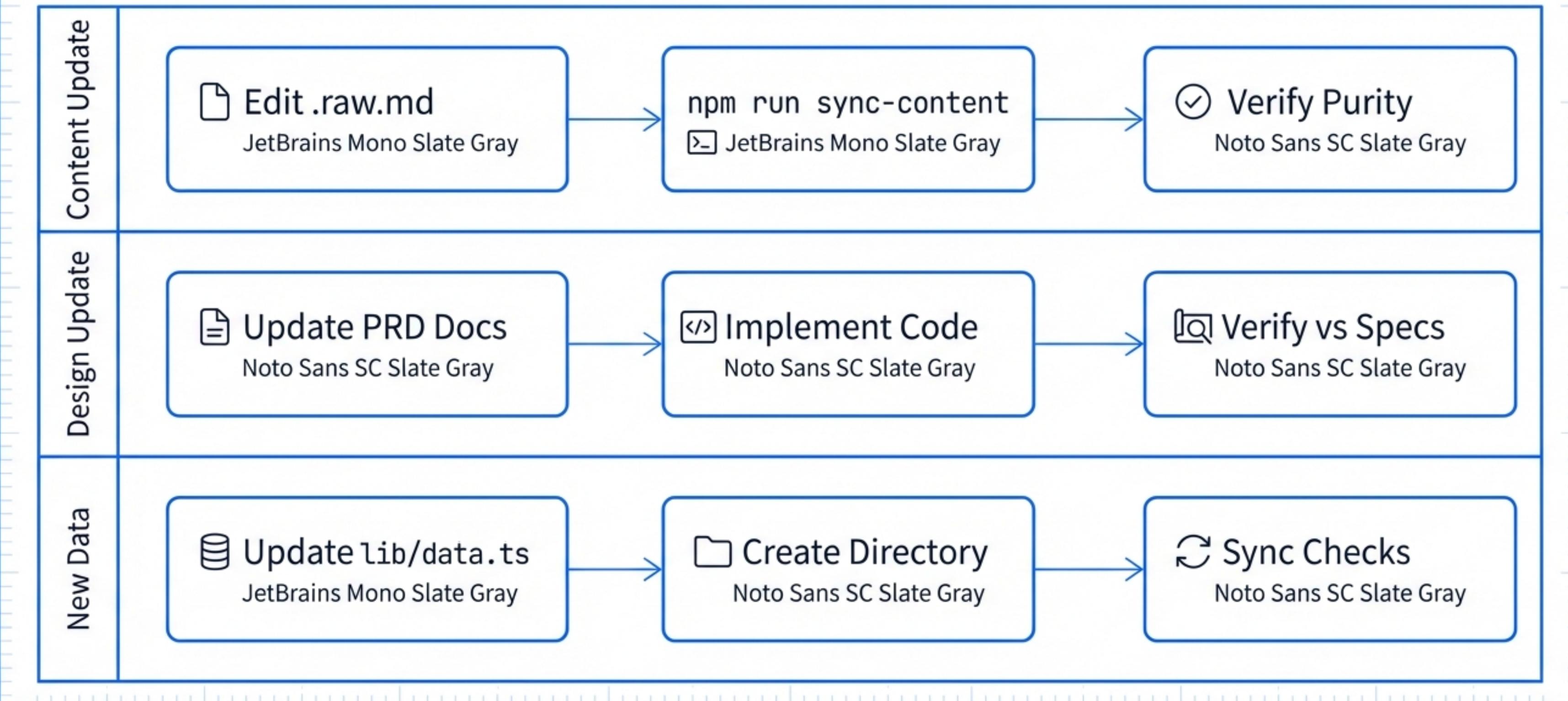


Semantic HTML. ARIA Labels.
Keyboard Nav Support.

过滤器：处理“脏”输入 (Handling Dirty Input)



工作流：变更周期 (Update Lifecycle)



故障排除：常见问题与修复 (Troubleshooting)

Import Error

'GitHub' vs 'Github'. Always use lowercase 'h'.

```
import { Github }
```

Mixed Text

English showing in Chinese UI? Check regex/parser.

Ugly Emojis

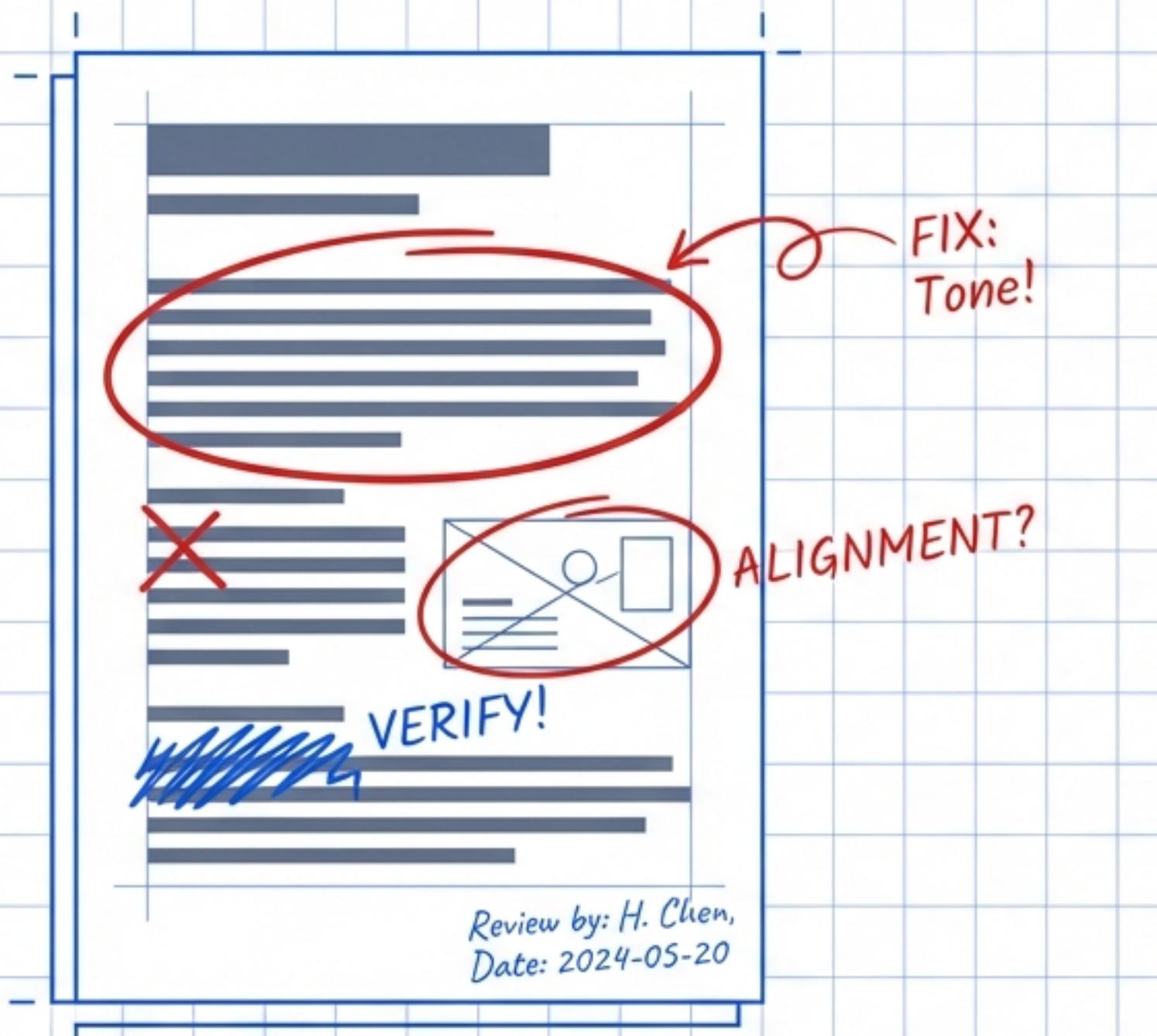
Avoid generic emojis (🤮). Use Lucide icons.



Cache Issues

Changes not showing? Force Hard Refresh.

人工审查：独立校对 (Independent Review)

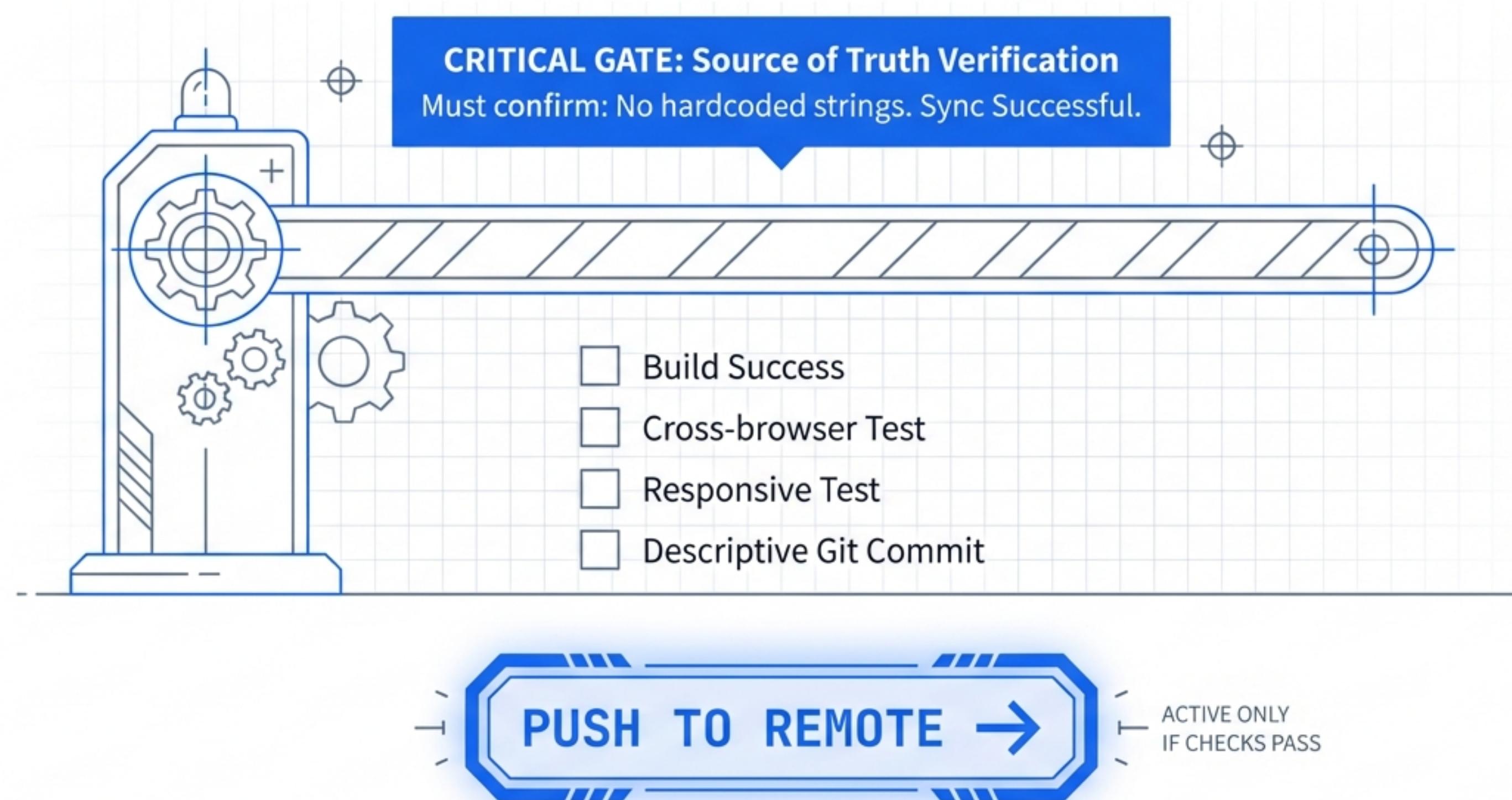


CHECKLIST POINTS

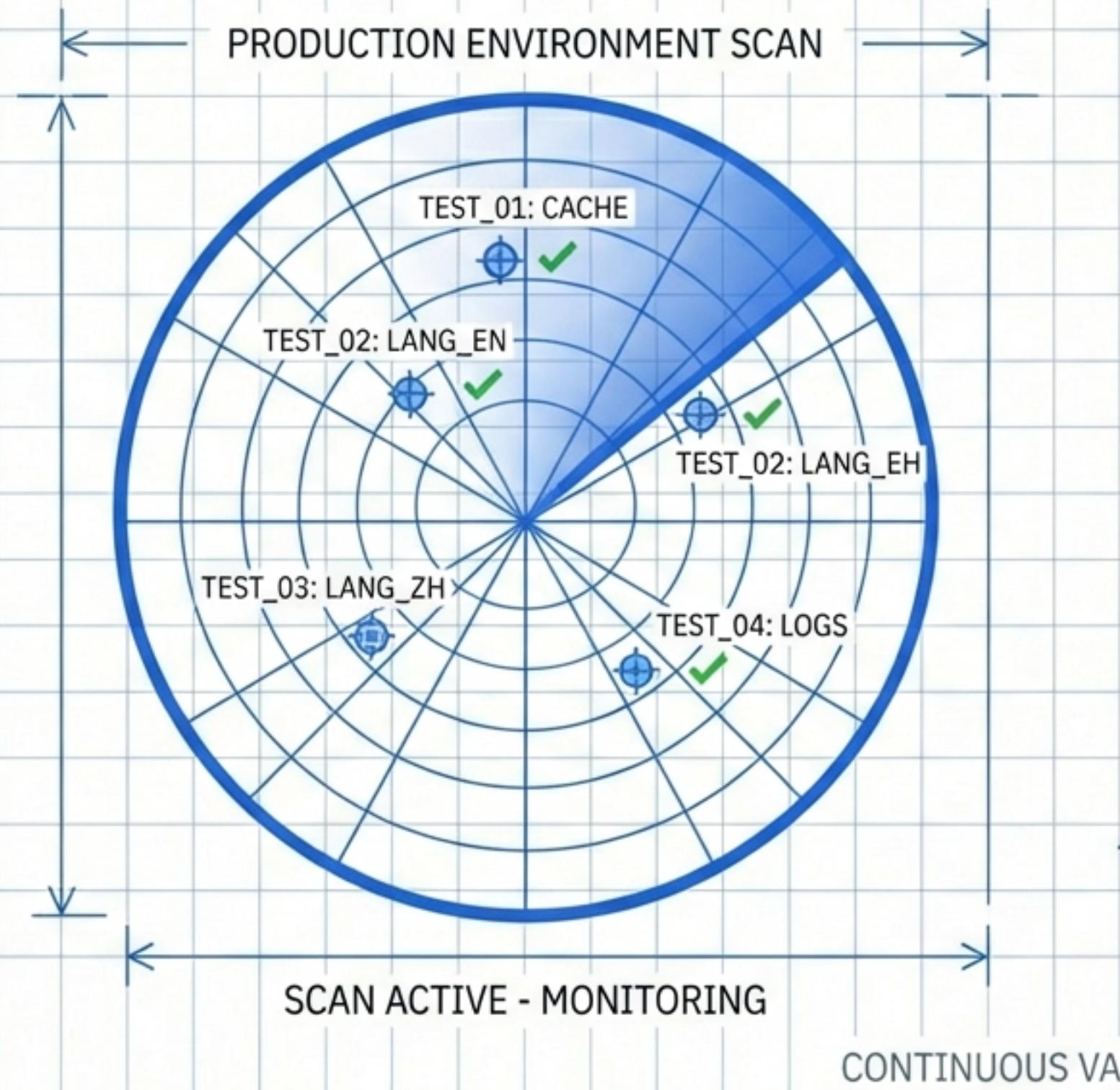
- Content Tone:** Professional grammar? Verified claims?
- Visual Polish:** Grid alignment? Animation timing?
- Feedback Loop:** Document Observations → Team Review → Decision.

“Fresh eyes catch what creators miss.”

关键关卡：部署前核查 (Pre-Deployment Gate)



交付后：生产环境验证 (Post-Deployment)



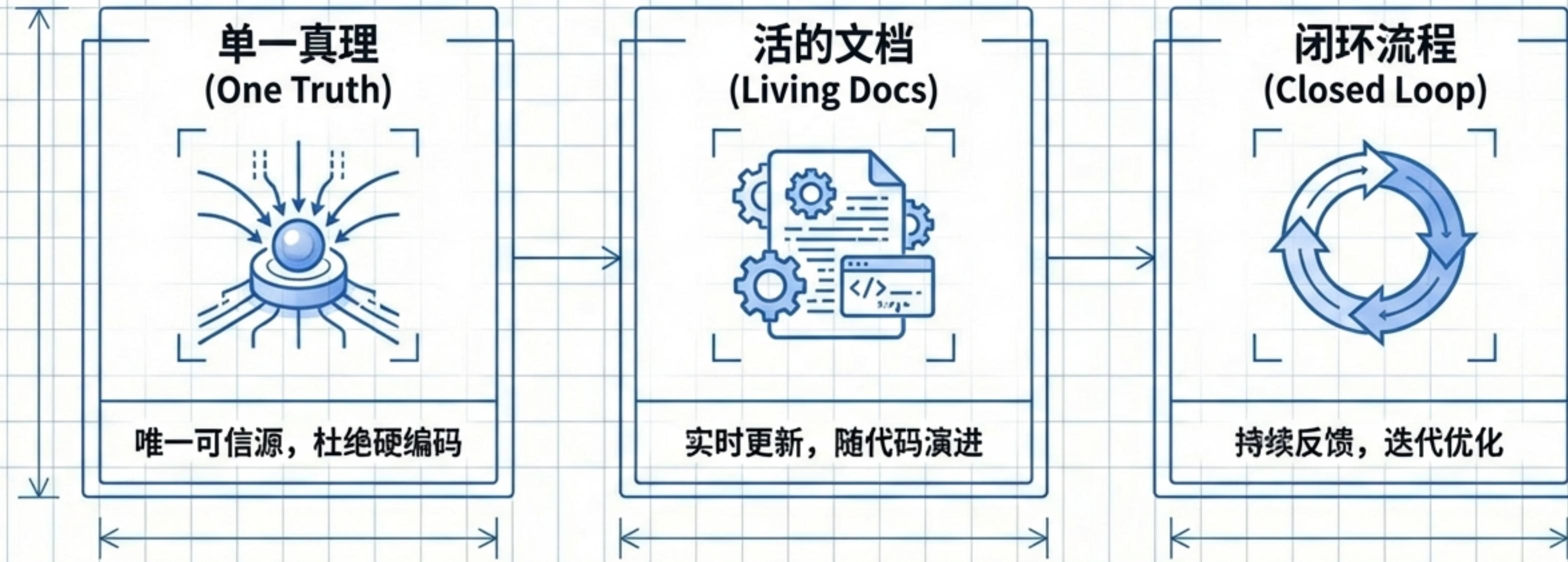
ACTION LIST: IMMEDIATE STEPS

- Immediate:** Clear Cache & Retest.
- Verify:** Check EN & ZH in Production.
- Monitor:** Error Logs & User Feedback.

总结：构建质量文化 (The Culture of Quality)

Build it right, every time.

每一次构建，都是对质量的承诺



附录：快速指令参考 (Quick Reference)

```
$ npm run dev  
-> Start server (Development environment)
```

```
$ npm run build  
-> Production check (Compile for deployment)
```

```
$ npm run sync-content  
-> Generate bilingual files (Update translation data)
```

Documentation Links:

-  PRD/Design/color-system.md (Design Tokens)
-  lib/data.ts (Data Structures)

Update checklist.md if new issues are discovered.