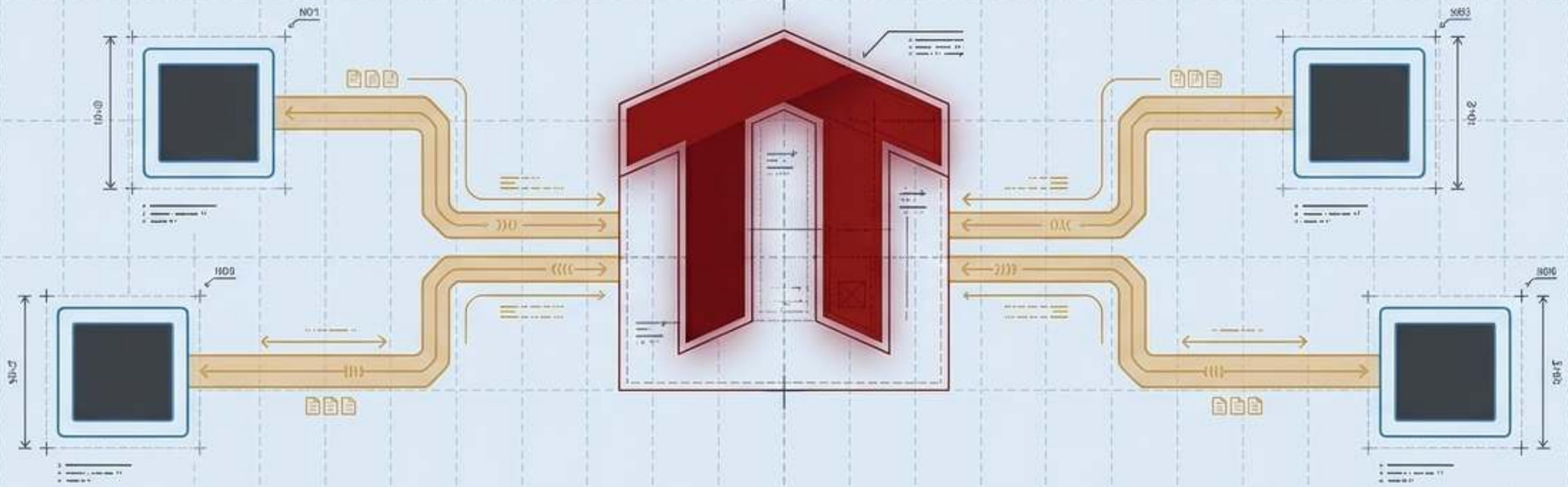
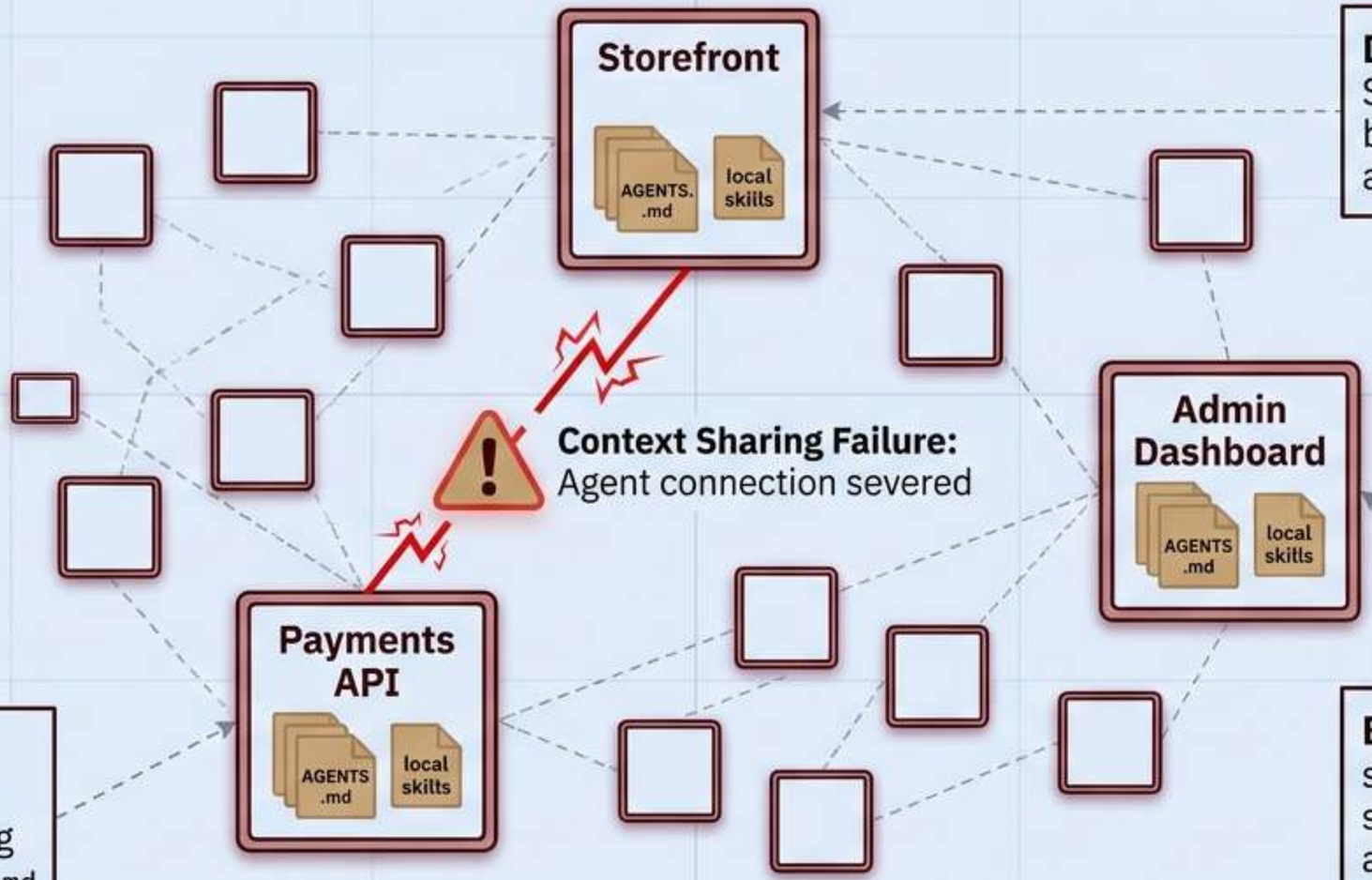
The Home Repo Pattern

Centralizing AI Agent Workflows for Multi-Repo Environments.



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The Multi-Repo Scaling Problem



Desynced Tooling: Skills and tooling must be manually updated across 30+ repos.

Scattered Steering: Planning cross-repo features requires working without a unified `AGENTS.md`

Blind Spots: An agent started in one repo cannot see the global architectural overview.

The Chaos Diagram

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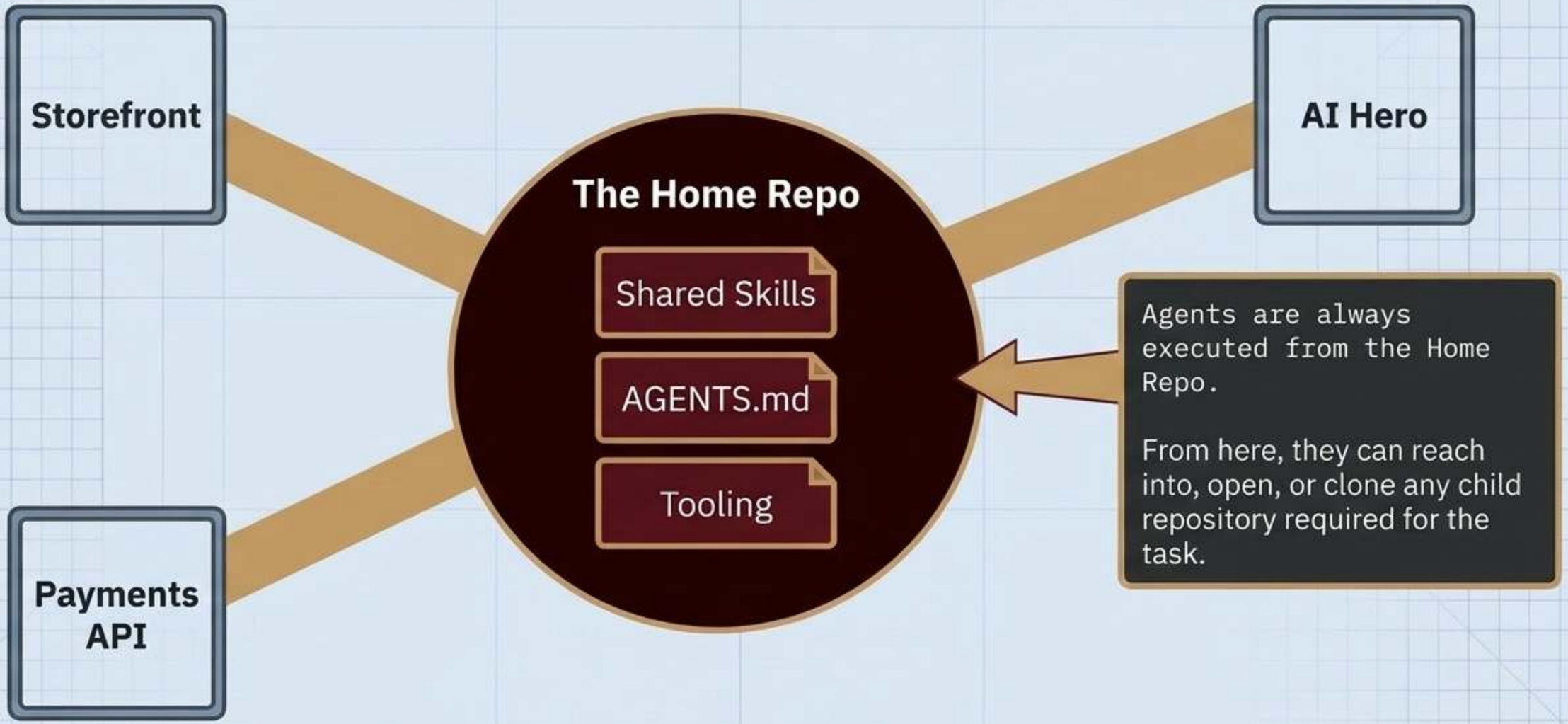
Evaluating AI Agent Topologies

	Scattered Repos	**User Directory** (~/.claude/skills)	**Monorepo**	**The Home Repo**
Version Controlled	Yes	No	Yes	Yes
Team Sharing	Fragmented	Invisible to team	Excellent	Fully Shareable
Sync Overhead	Heavy	Manual updates	Zero	Zero
Cross-Repo Visibility	Isolated	Global, but local only	Complete (but blocked by mixed public/private repos)	Complete & Dynamic

The optimal blueprint: A single version-controlled repository acting as the agent's operating system.

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The Architectural Paradigm Shift: The Command Center



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Anatomy of the Home Repo Setup

The Home Repo

- **/skills**
  - Private, shared team skills
- **AGENTS.md**
  - Global steering & pointers
- **/wiki**
  - Shared LLM docs, glossaries, ADRs
- **settings.json**
  - Versioned agent settings

Child Repos (e.g., Storefront)

- **/src**
  - The actual codebase
- **AGENTS.md**
  - Repo-specific instructions only
- **build / test commands**
  - Local execution scripts

Code stays where it is. Global strategy centralizes. Repo-specific instructions remain local.

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The Navigation Pointer Mechanism

The Code (AGENTS.md)

AGENTS.md

```
Storefront (Next.js app): ~/repos/acme/storefront.
Clone from git@github.com:acme/storefront.git if missing.
```

The Execution Flow

Step 1: Agent checks local path `~/repos/acme/storefront`

✓ **Exists**

Agent opens local directory and begins work.

✗ **Missing**

Agent dynamically clones the remote repository to the path, then begins work.

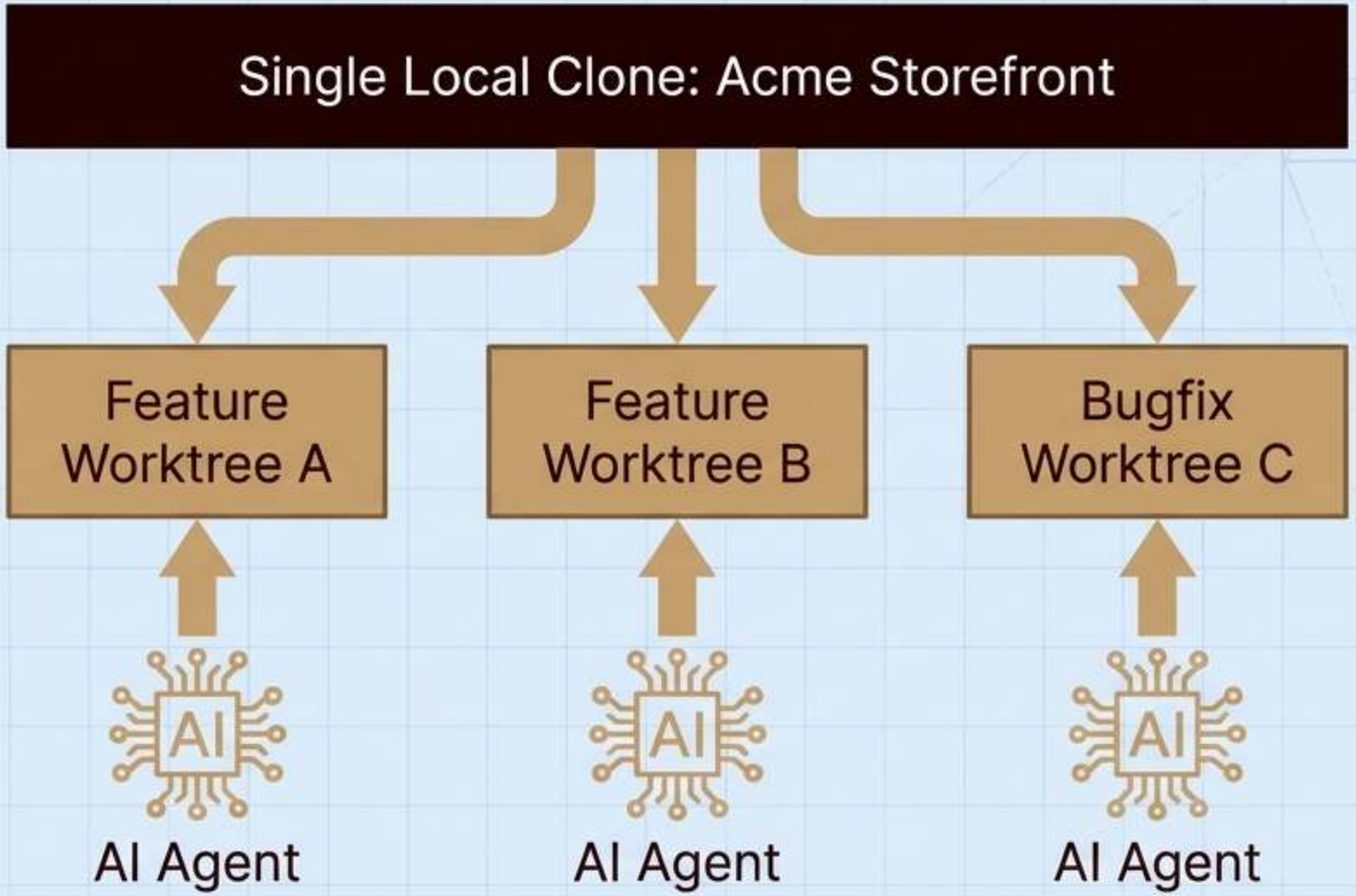
By defining local paths and remote URLs, the AGENTS.md file becomes a dynamic, self-healing tether to the entire engineering ecosystem.

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Concurrent Sessions via Git Worktrees

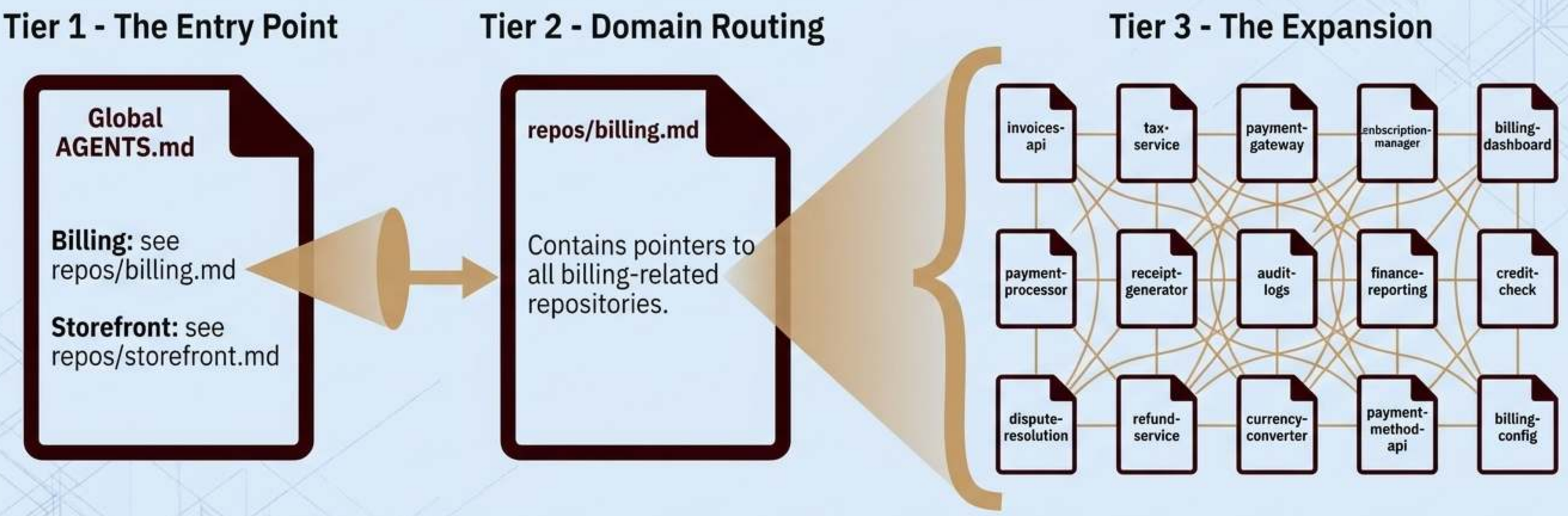
Child repositories are cloned once.

Each feature gets an isolated Git worktree that clone, allowing multiple agents to run concurrent sessions in the same repo with zero conflict.



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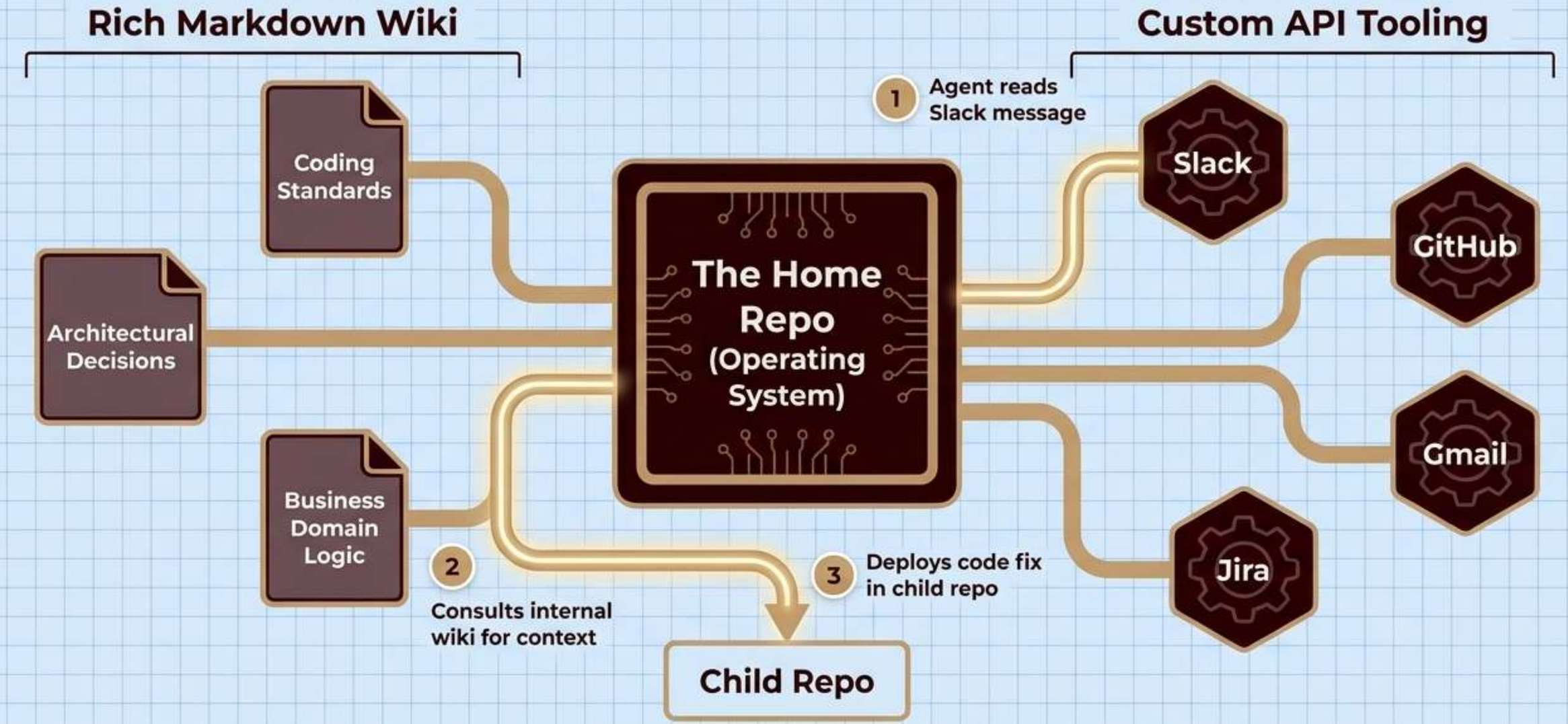
Scaling Up: Progressive Disclosure



Strategic Takeaway: Avoid overwhelming the agent with 400+ choices. Chunking pointers into domain-specific markdown files preserves the LLM's context window and improves routing accuracy.

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The LLM Wiki & Tooling Ecosystem



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Deployment Playbook: Inventory & Agree

Step 1: Inventory the Environment

```
$ scanner --recursive ~/*
[INFO] Scanning for .git directories...
[INFO] Found 23 git repositories.
[INFO] Recording paths, remotes, commit dates...
[INFO] [                    |..................]
[INFO] Searching for SKILL.md and AGENTS.md...
[INFO] 12 SKILL.md files located.
[INFO] 8 AGENTS.md files located.
[INFO] [                    |..................]
[SUCCESS] Inventory complete. Data compiled.
```

Find every git repo, record paths, remotes, and commit dates. Locate all scattered **SKILL.md** and **AGENTS.md** files.

Step 2: Agree on the Plan



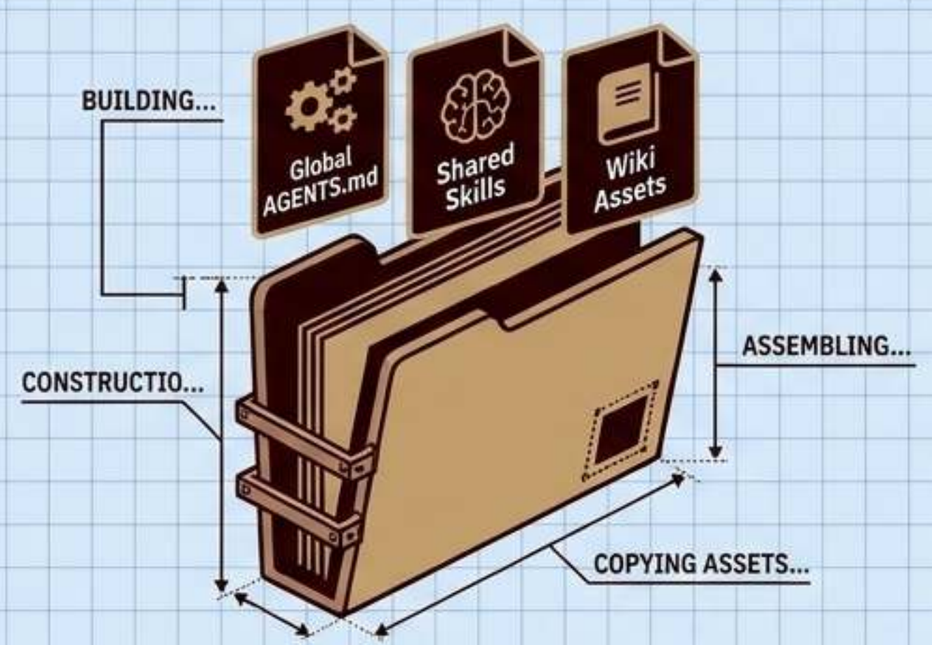
The agent sorts all found assets into buckets: Shared (moves to Home Repo), Duplicate (diff and keep newest), Repo-Specific (stays local), and Installed.

The agent changes nothing until you **approve** its plan. It grills you in rounds to ensure strategic alignment.

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Deployment Playbook: Apply & Clean

Step 3: Generate the Home Repo



Agent writes the global AGENTS.md with the agreed-upon pointers and copies in the shared skills and wiki assets.

Step 4: Prune the Legacy Files

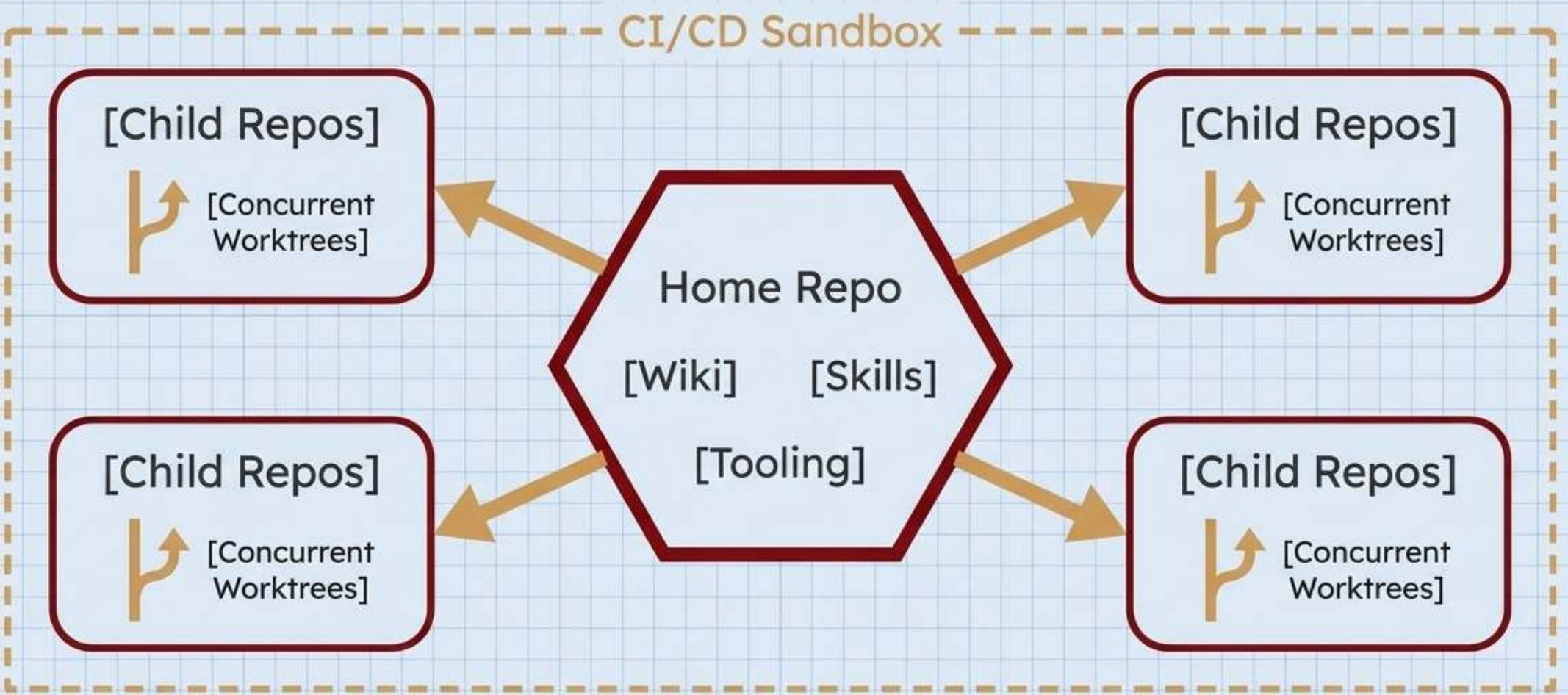


Agent creates new local branches in every child repo, systematically deleting the legacy, duplicated steering files and skills that just moved to the Home Repo.

Result: A fully synchronized, centralized AI working environment.

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The AI Software Factory Synthesized



Build with Intelligence. Amplify Your Impact.

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