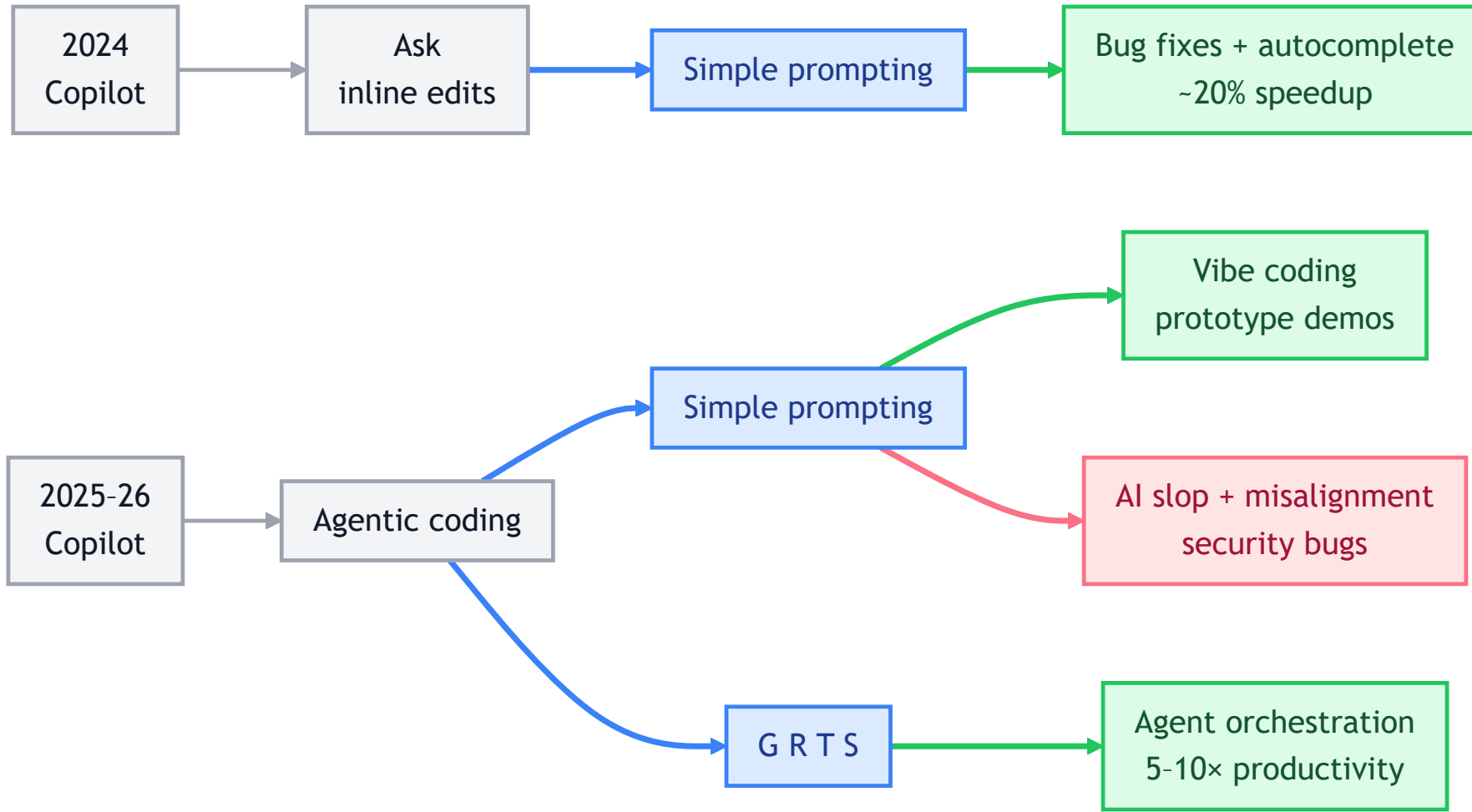


Guidance 🧭 | *Reality Rules Roles* 🧱 | *Tools* 🧰 | *Specifications* ✅



Don't build features. **Build the system that builds features.**

Coding Agent 🍺🤖 The very eager stupid genius





Guidance Prompting | Supervision | Hand-holding



- Rabbit hole:
 - Is this the best approach?
 - Research best practices (≥ 5 sources).
 - Give the best 3 approaches with pros/cons — cite evidence.
- Shortcut:
 - What are the best practices here?
 - **NEVER IGNORE TESTS OR COMMENT THEM OUT**
 - Right place for the code? Clean architecture? Utilities library?
- Define “good”:
 - **Verification vs Validation** — built the thing right vs build the right thing ← we need this!
 - Use an oracle / golden sample / explicit success criteria.



Reality | Rules | Roles

Instructions | Skills | Orientation | Foundation



- Build repo overview + working rules (copilot-instructions.md) ← **Copilot can help with this!**
- Cite docs: build scripts, library locations, standards, linting guides
- For the top 3–8 areas, define “roles” with repo-specific best practices (xyz.instructions.md / Claude skills)
- Define boundaries: excluded (secrets), auto-approved (git fetch/status), and restricted files (CI/CD, security)

Tips:

- Keep instruction files short (100–300 lines). Refine or split as needed.
- Spend 1–2 days iterating; this pays off.
- When prompts miss something (edge cases, wrong file, global var), explain the failure and update the right instruction file.



Tools Capabilities | Abilities | Touch the external world



Without extra tools, agents are limited to reading and writing files in your repo.

- Issue read and write: [GitHub MCP](#) [Atlassian MCP](#)
- Accurate API and function calls: Context7 + research online
- Deterministic actions: generate a script for repetitive/complex work (e.g., convert NUnit3 tasks to NUnit4 across many files)
- VS Code tasks: Build, test, lint, format, etc.
- Shell commands: git status, list files, get file content
- Tip: Use settings.json -> "chat.tools.terminal.autoApprove" for read-only commands



Specifications

Objectives | Checklists | Planning | Requirements



- You mostly review outputs and spot-check code/decisions.
- For larger work, spend time planning to reduce churn and wrong turns.
- **Level 1:** For bugs and scoped changes, we can just make a single prompt
- **Level 2:** 1–3 planning prompts (research/explain/3 options) → then implement
- **Level 3:** Create a checklist in Markdown → review → implement
- **Level 4:** Use [OpenSpec](#) or [Spec-Kit](#): specify → clarify → plan → analyze → implement

A1: Multi-agent workflows

- You'll often be waiting on agents. Use that time:
 - Research the next feature in parallel
 - Use git worktrees (VS Code + Agent HQ) for parallel branches
 - Delegate to cloud agents (ensure CI/CD is set up)

Reference: [Agent HQ](#) — Background on VS Code's emerging multi-agent orchestration model and how it changes day-to-day workflow. Useful context for why parallel work (e.g., via git worktrees) matters.

A2: Risk -> Gating | Ambiguity -> Planning

The good	The bad and the ugly
reason about the goal plan steps take actions (read/edit/run tools) iterate until done (or stuck)	confidently wrong misses hidden constraints misapplies "best practices" thrashes without a stable hypothesis misuses tools (wrong env/partial runs)

	Risk: Low	Risk: High
Ambiguity: Low	Great for agents (docs, refactors, small tests)	Needs gates + review (small but critical changes)
Ambiguity: High	Clarify first (spec + oracle)	Human-first (architecture/safety-critical/unclear bugs)

A3: Main References

- G — [Lessons from Anthropic](#) — A practical set of prompting lessons for giving better guidance.
- G — [Lessons from Anthropic](#) — Prompting lessons for better guidance.
- G — [Building effective agents \(Anthropic\)](#) — Designing agent loops: checkpoints, tool feedback, stop conditions.
- R — [Security \(VS Code Copilot\)](#) — Risk areas and guardrails.
- R — [Workspace Trust \(VS Code\)](#) — Trust boundaries + Restricted Mode.
- R — [LLM01:2025 Prompt Injection](#) — Prompt injection risks + mitigations.
- T — [Tutorial: Work with agents in VS Code](#) — Running agent workflows in the IDE.
- S — [Spec Kit](#) — Spec → Plan → Tasks to make “done” measurable.
- S — [CI \(GitHub Actions\)](#) — CI as a repeatable verification oracle.
- S — [A Minimal, Reproducible Example](#) — Make bugs/tasks reproducible.
- S — [Responsible use of GitHub Copilot coding agent](#) — Scope, acceptance criteria, review gates.

A4: Auxiliary References

- [GitHub Copilot Workspace: Welcome to the Copilot-native developer environment](#)
- [GitHub Copilot in VS Code](#)
- [Asking GitHub Copilot questions in your IDE](#)
- [Get started with GitHub Copilot in VS Code](#)
- [Use tools in chat \(VS Code\) — Tool approval](#)
- [Review AI-generated code edits \(VS Code\)](#)
- [Adding repository custom instructions for GitHub Copilot](#)
- [About GitHub Copilot coding agent](#)
- [What is Foundry Agent Service?](#)
- [Context7 \(GitHub\)](#)
- [Serena docs](#)
- [git-worktree documentation](#)
- [About issue and pull request templates \(GitHub\)](#)
- [Configuring issue templates for your repository \(GitHub\)](#)