Accelerating Go Development with Claude Code: A Pragmatic Approach

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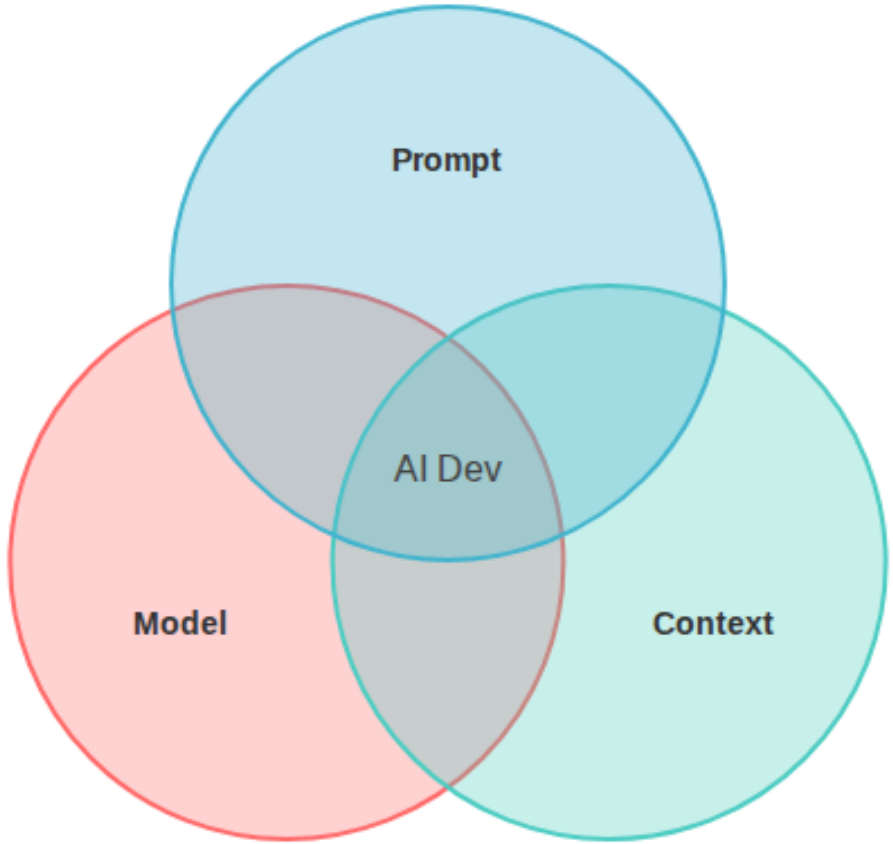
Dev with AI

- Hype vs slot-machine
- Continuously evolving
- dev < dev + AI

Goal

- What works for me (so far)
- Open Discussion


Prompt
AI Dev
Model
Context

+ Tools

Models

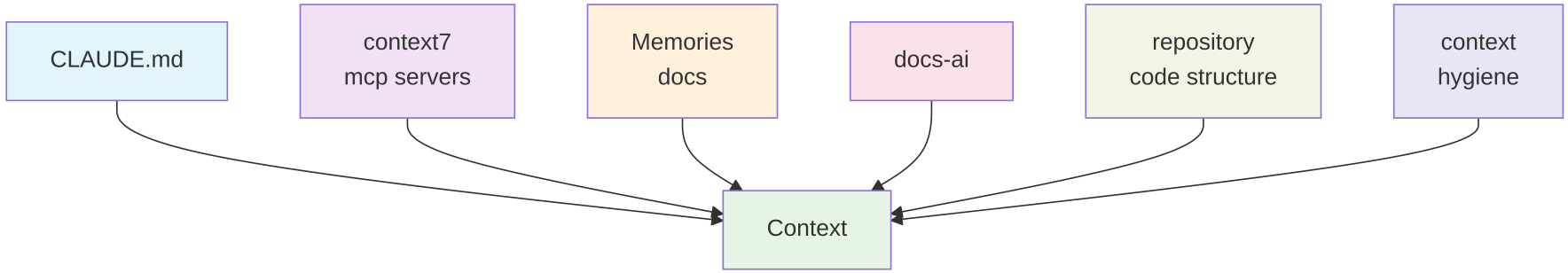
- Antrophic models lead
- `claude` → better results
- Cut-off - march 2025

Models

Models have strengths and weaknesses:

- Claude Code
- Gemini

Context


CLAUDE.md
context7
mcp servers
Memories
docs
docs-ai
repository
code structure
context
hygiene
Context

CLAUDE.md

- keep it up to date
- update after new feature*
- have a command for it

context7 mcp

- Fetches on-demand documentation and code snippets.
- Additionally:
  - Add links to prompts.
  - Add information to `memory/`.
  - Or save to `docs-ai/`.

.claude/memory

Memory (`.claude/memory`):

- Not read automatically
- Use for one-off prompts (e.g., `migration_sqlite_to_psql.md`)
- Reminders
- Keep them for later use (e.g., `memory-template`)

docs-ai / ai-docs

- More extensive docs and larger mds.
- You can link them in `CLAUDE.md`.

Repository

- Modular design
- Vertical project structure
- `CLAUDE.md` files in subfolders

Platform Engineer

1. Scaling up = self-service infra/platform
2. Guardrails
3. (eventual) best practices

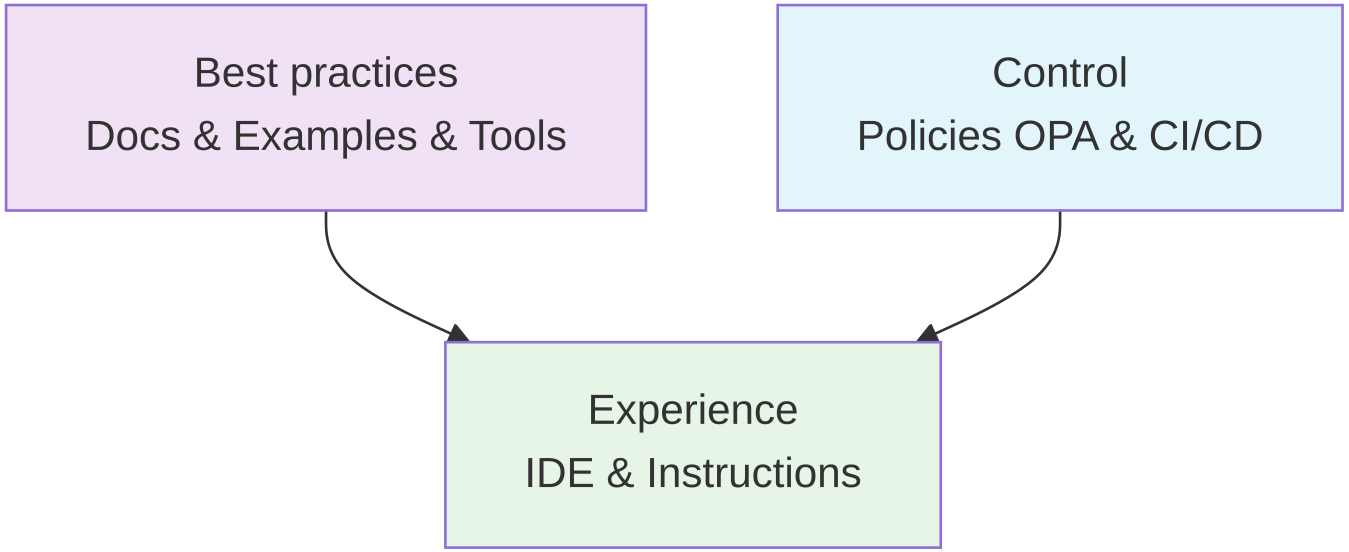
Software Engineer

1. Fast
2. Compose from large pieces
3. Stop me if I am going to cut my fingers off

AI for IaC use cases

1. Self-service & reducing friction
2. Planning and pre-mortem
3. Accelerate IaC & CloudNative development
4. Security & Compliance

Accelerate & Democratise



Best Practices

- Modules repository
- Example repos for new components
- Packages easy to consume by Agents
- Continuously built (and pruned)

Control

- Enforced policies with, e.g., OPA
- Standardized tooling, e.g., `tfsec` & `conftest`
- CI/CD
- AI-assisted reviews

Experience

- AI instructions and templates
- subagent configurations
- mcp server(s)

Experience

- Make it easy to share prompts and ad-hoc plans and instructions
- Telemetry

Continuous Effort

1. AI Retrospectives
2. Sharing experience and prompts

Demo → Claude for OpenTofu

github.com/wojciech12/talks & wbarczynski.pl

Thank you