

Accelerating Go Development with Claude Code: A Pragmatic Approach

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Dev with AI

- Hype vs slot-machine
- Continuously evolving
- $\text{dev} < \text{dev} + \text{AI}$

Goal

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



+ Tools

Models

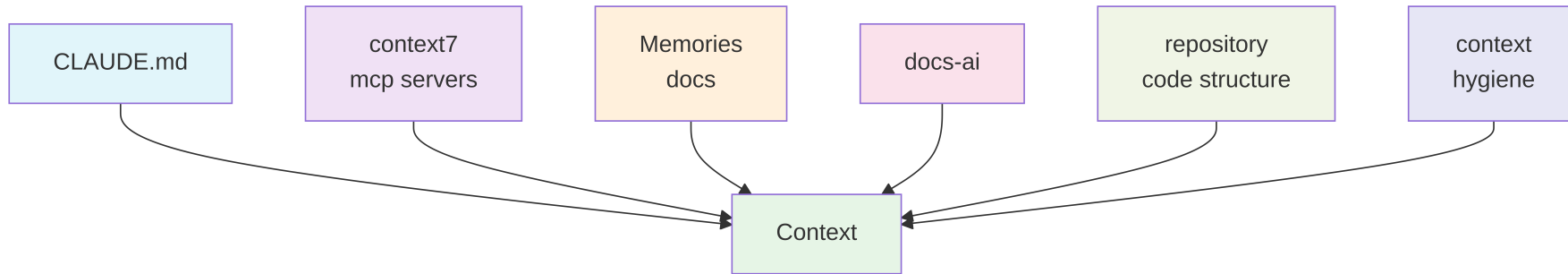
- Anthropic models lead
- `claude` → better results
- [Cut-off](#) - march 2025

Models

Models have strengths and weaknesses:

- Claude Code
- Gemini

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 ([docs](#))
- Use for one-off prompts (e.g., `migration_sqlite_to_postgresql.md`)
- Best practices
- 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

Context

```
Read .claude/memory/* and ... use command ...
```

Plan.md

- Keep the model on the track
- When it double, create it
- MUST for anything more complicated
- Benefits for the model

Prompt for Claude Code

- The CLEAR Framework
- Keywords, e.g., exactly, detail, [...](#)
- Role-based

```
You are a [ROLE] with expertise in [DOMAIN].  
Your task is to [SPECIFIC_ACTION].
```


1. Task context

2. Tone context

3. Background data, documents, and images

4. Detailed task description & rules

5. Examples

6. Conversation history

7. Immediate task description or request

8. Thinking step by step / take a deep breath

9. Output formatting

10. Detailed response (if any)

Will help:

- Good to watch 1-2 videos about prompt engineering
- [prompt optimizer](#) at [claude.ai](#)
- Claude can review your prompts as well.

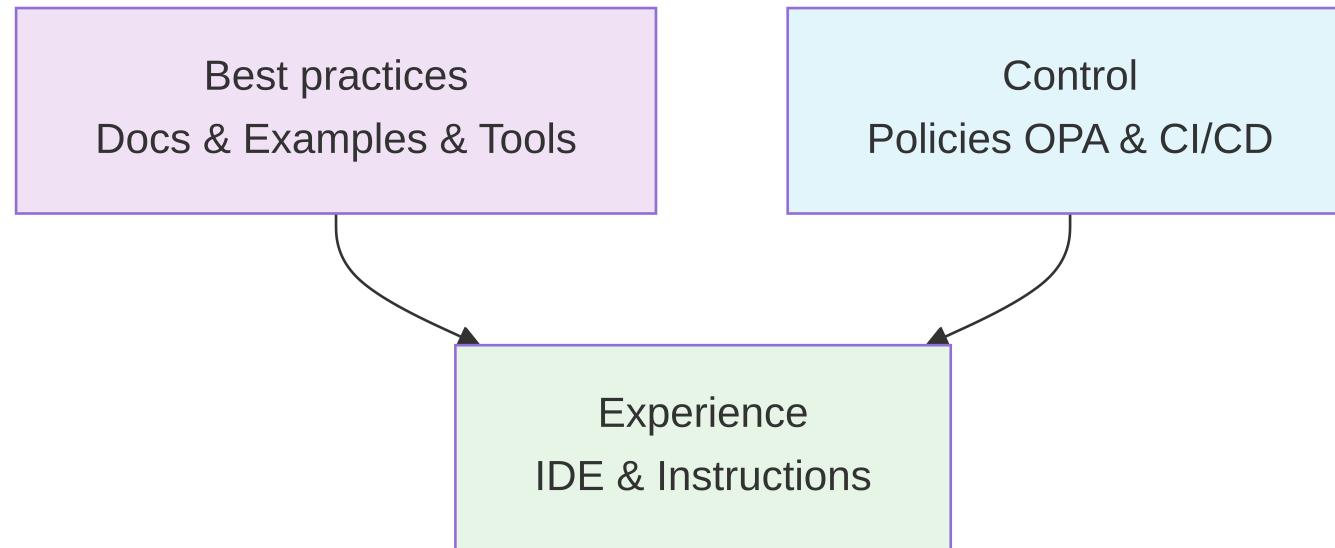
Software Engineer

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 & Democratis



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