The
SOFTWARE
ESSENTIALIST

Introduction to the 12 Essential Principles of Scalable Software Development

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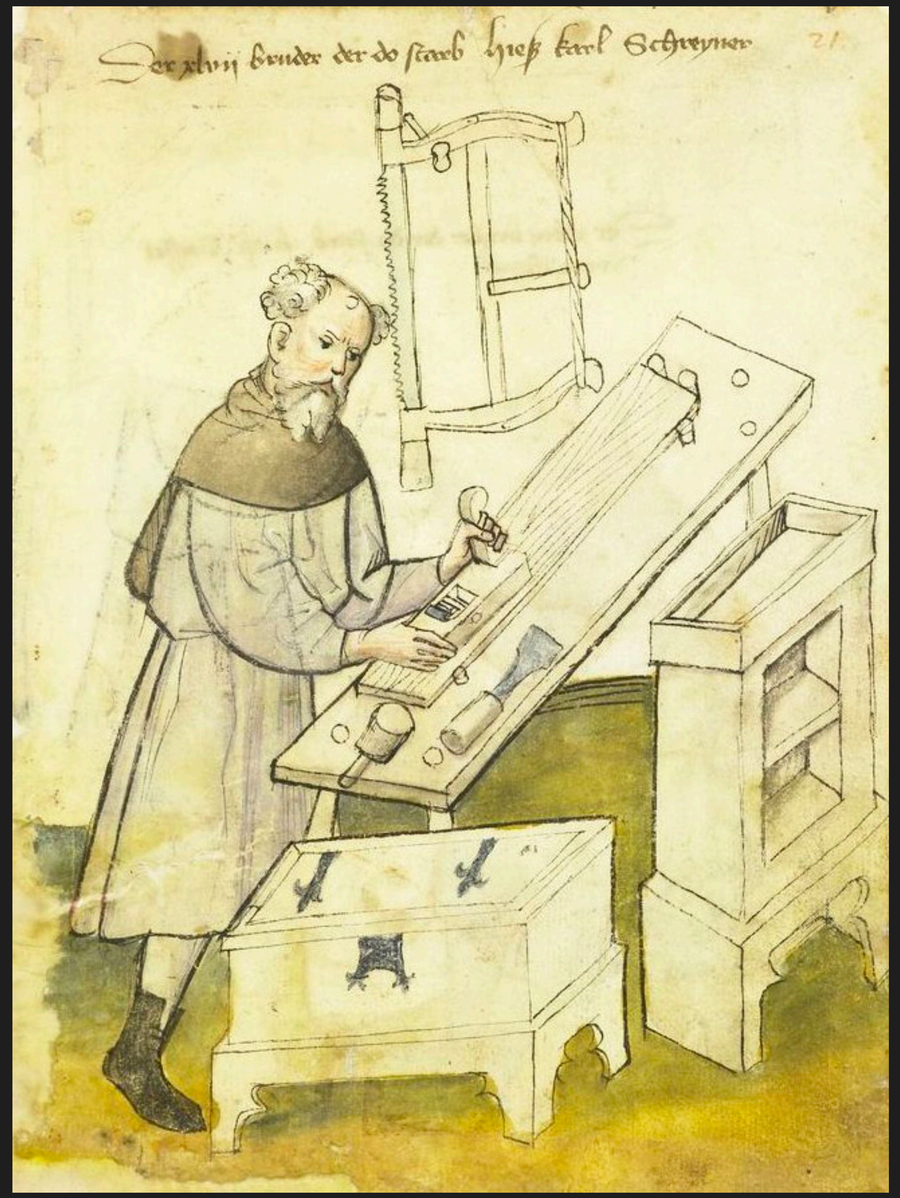


There was once a woodworker who was so focused on learning all the tools of the trade that he never took the time to learn the fundamentals — such as the right types of wood for the job.

He could use a saw, plane, and drill with the best of them, but when it came time to build a mere table, he had no idea how to ***choose the right kind of wood*** *to make it sturdy and beautiful.*

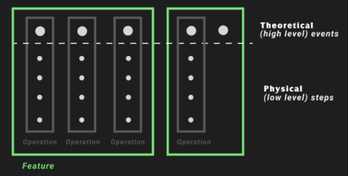
Tools, techniques & patterns are important, but principles — thinking tools upon which you can orient yourself — are foundational

Metaphysical Essential

Abstraction

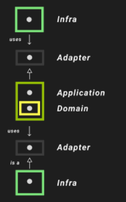
Metaphysical Essential

The Feedback Loop



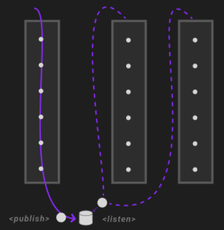
Physical Essential

Vertical Slicing



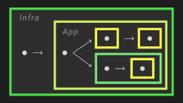
Physical Essential

Horizontal Decoupling



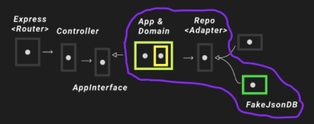
Physical Essential

Temporal Decoupling



Physical Essential

Composition

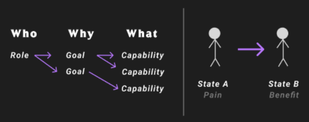


Physical Essential

Subject / System Verification

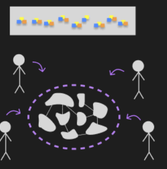
Physical Essential

Deployment & Delivery



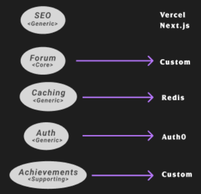
Theoretical Essential

Value Identification



Theoretical Essential

Domain Discovery



Theoretical Essential

Strategic Design

Physical Essential

The Walking Skeleton

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What we'll cover

- *What the 12 essentials are & why we need them*
- *An explanation of the 3 categories (metaphysical, physical, theoretical)*
- *A high level overview of each of the 12 Essentials & how we'll learn each throughout the course*

What are the 12 Essentials & why do we need them?

- *Phronesis = Wisdom*
  - *The masterful Phronimos developers*
  - *Look to the experts for guidance*

3 Categories of Essentials

Metaphysical

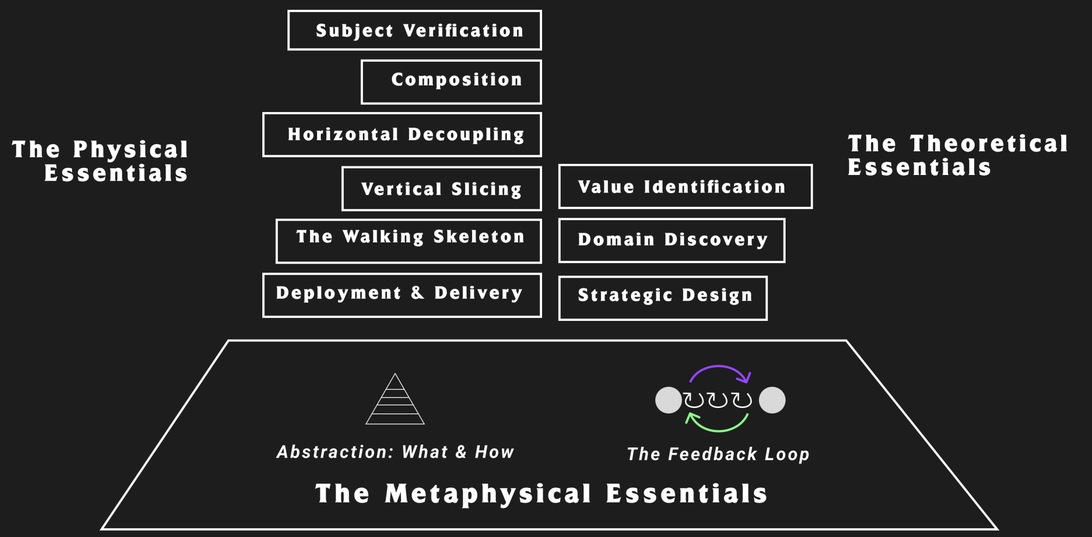
- the core mental models based on the realistic nature of goal achievement & problem decomposition

Theoretical

- the potential, upfront, planning, thinking, designing conceptual part of problem decomposition

Physical

- the actual, hard source code, implementation part



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What to focus on?

Planting seeds. Like the previous mental models, focus on just understanding the ideas. We'll continually refine your implementation skills throughout the Phases of Craftship.