

Kicking the complexity habit

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Complexity

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“It really shouldn’t be this difficult”

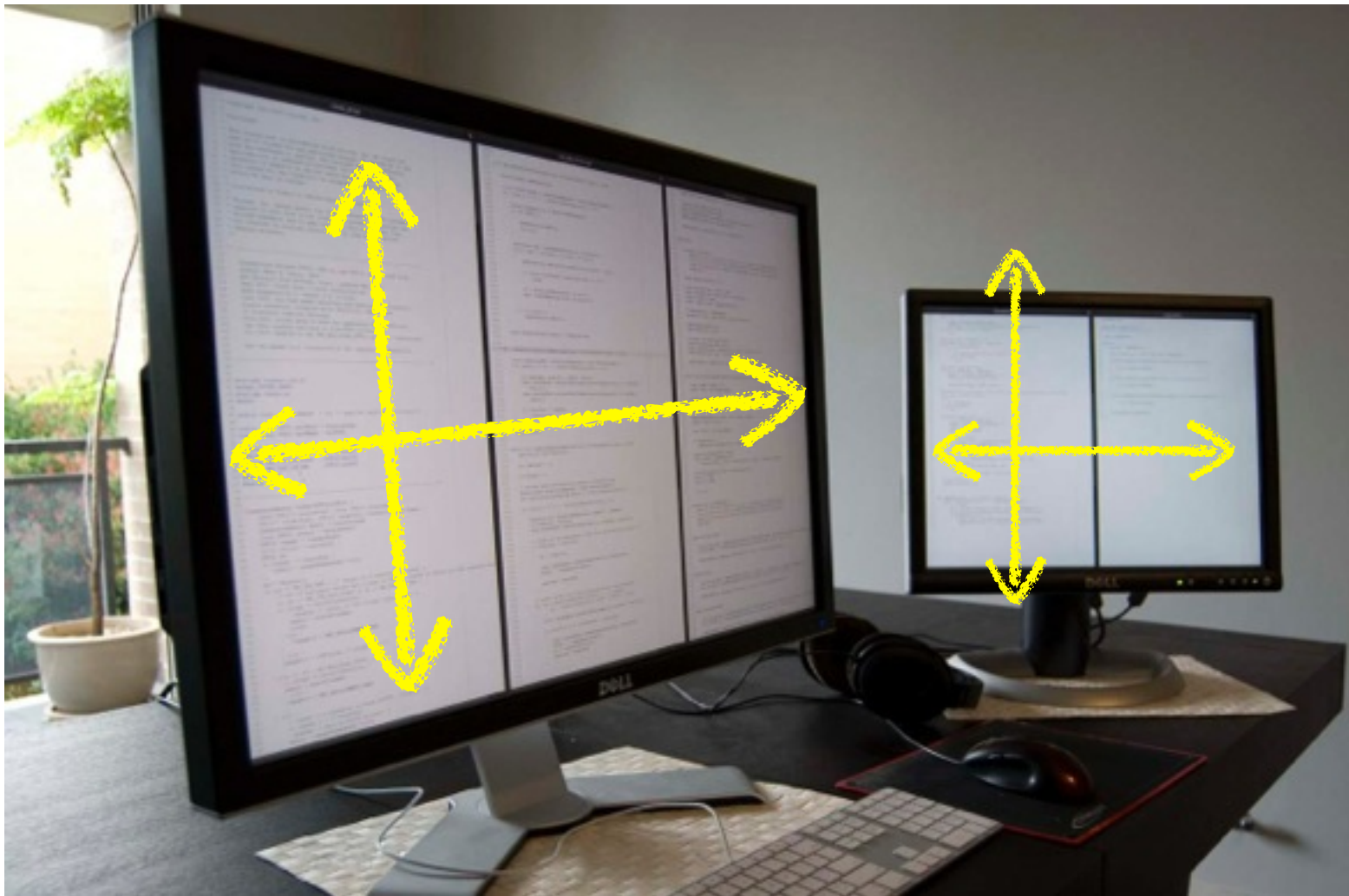
Know your enemy

Identifying complexity

Reducing complexity

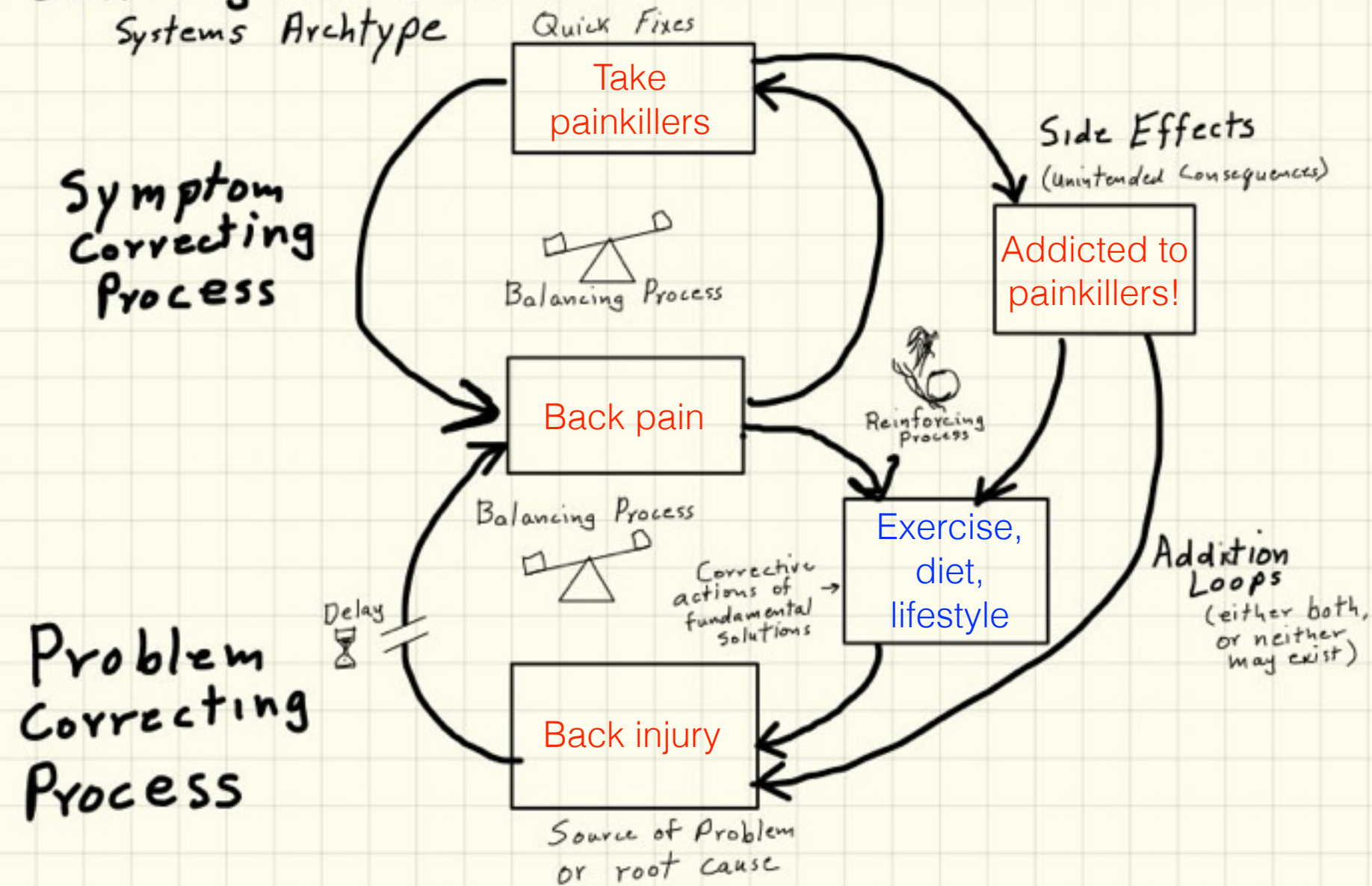
Avoiding complexity

Identifying complexity



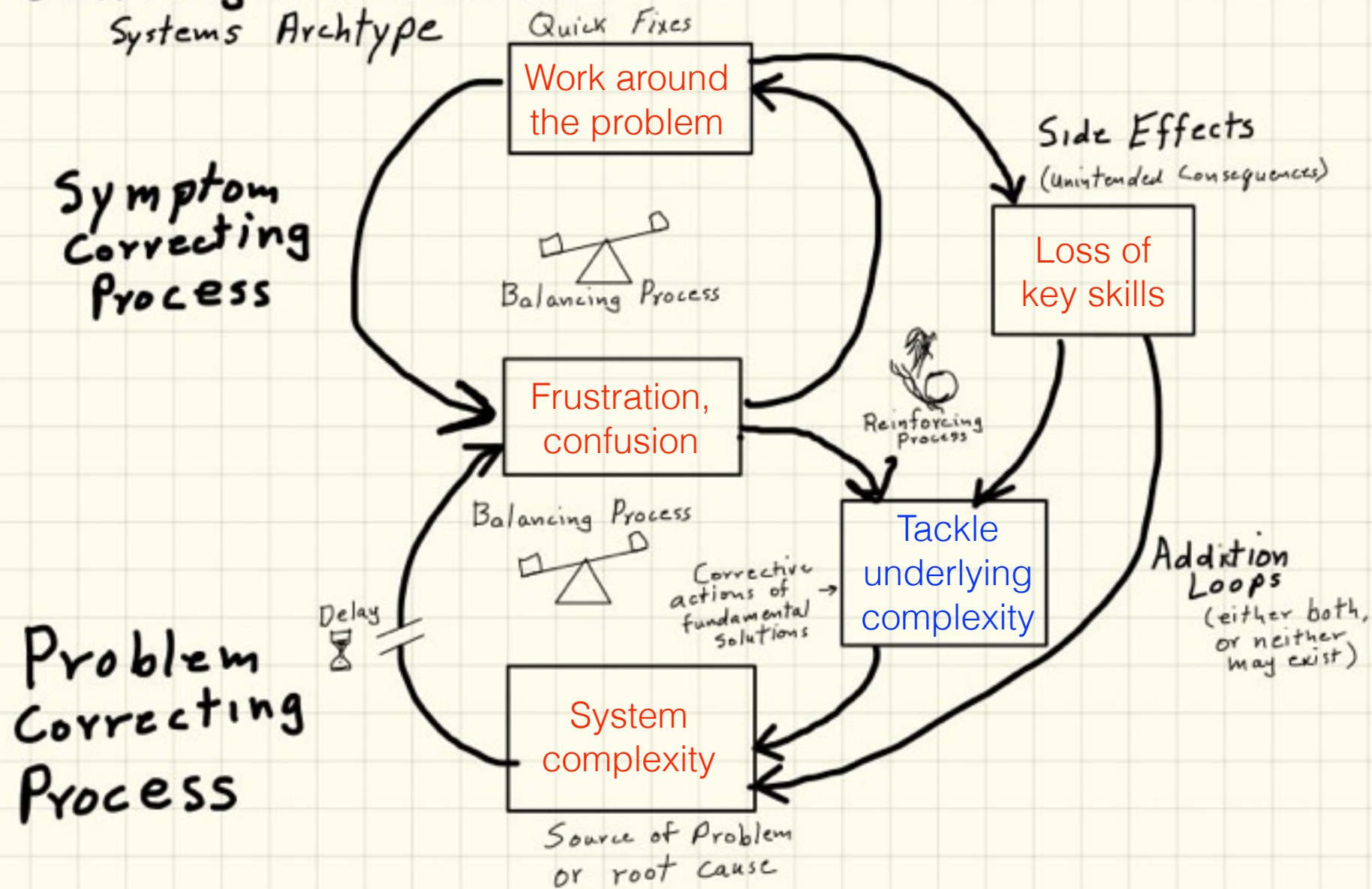
We do what we know

"Shifting The Burden" Systems Archtype



We do what we know

"Shifting The Burden" Systems Archtype



Painkillers are everywhere!

Architecture

Enterprise mandates

Techniques

TDD

Design

Undirected local choices

Process

too much, too little

Tools

IDEs

Build automation

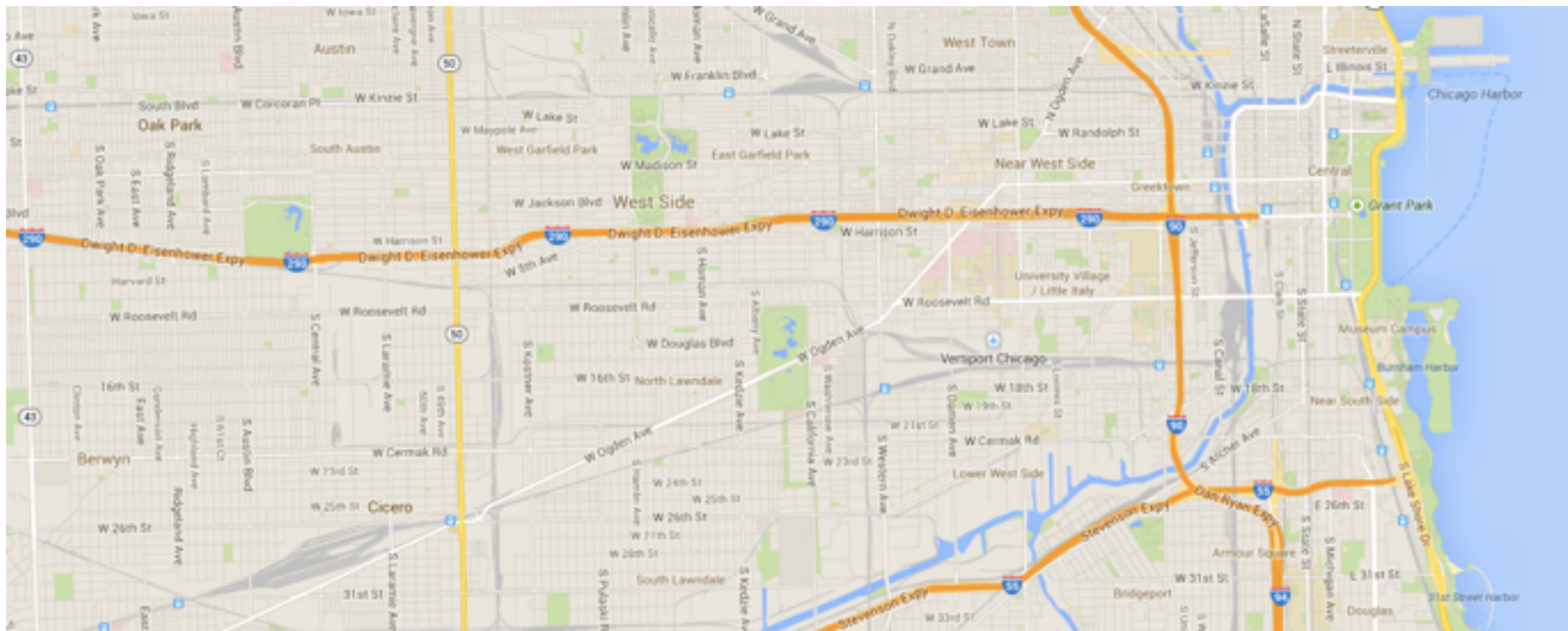
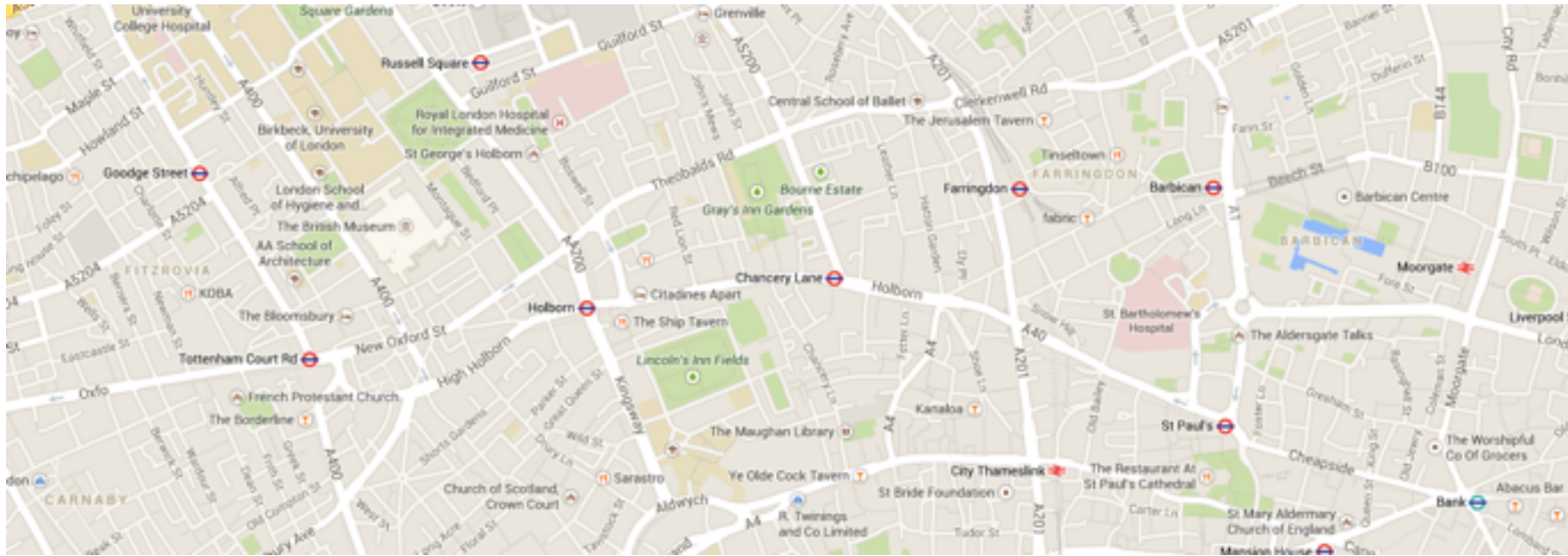
Organisation

Conway's Law

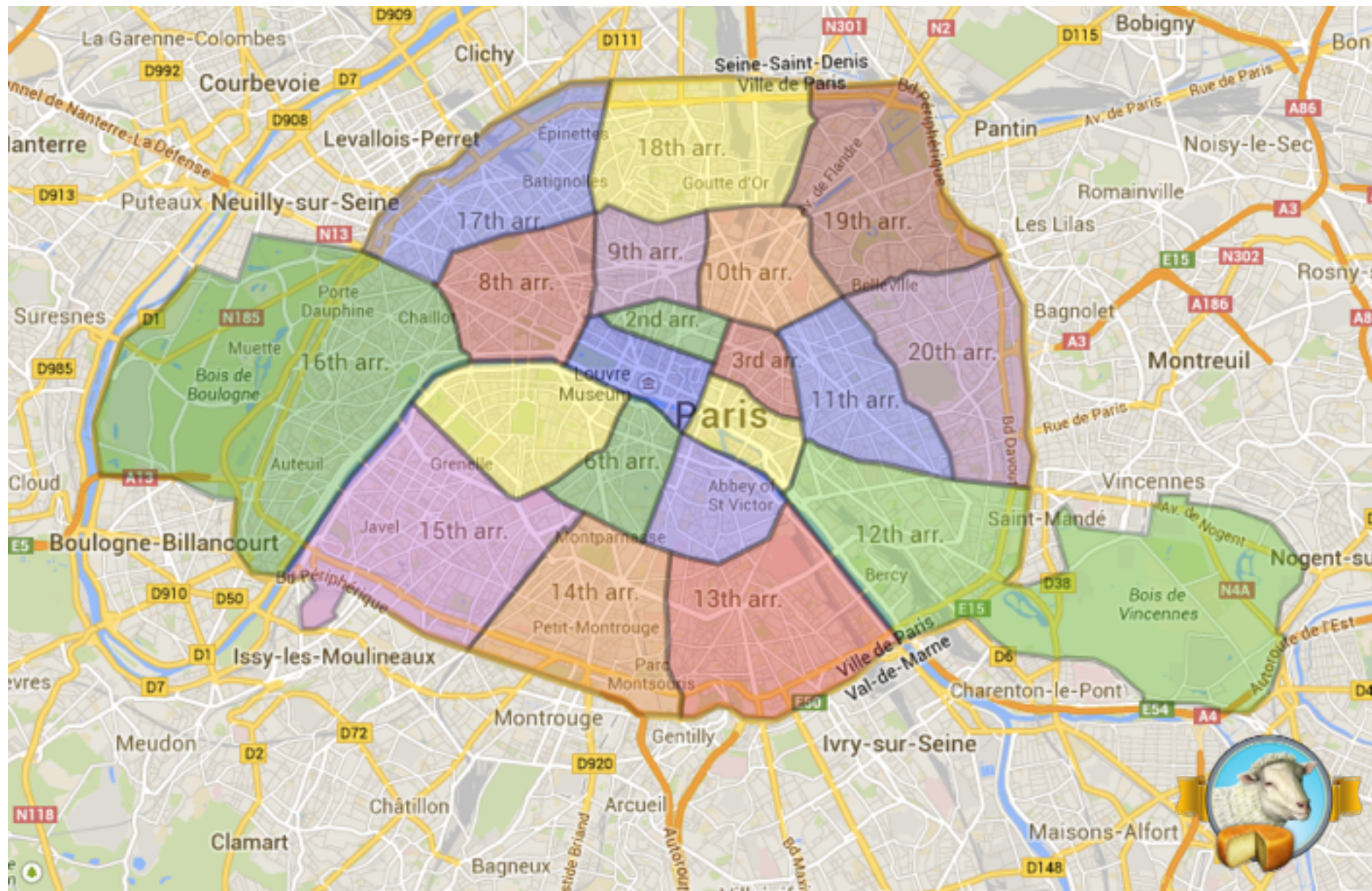
Reducing complexity

- ✓ Monitor your cognitive load
- ✓ See what's really there - and question it
- ✓ Use consistent idioms and principles
 - Principles + Context = Practices
 - Difference is data
- ✓ Familiarity is not the same as Simplicity
 - Use fresh eyes. "What's the dumbest thing..?"

A tale of two cities....



The real other city



Avoiding complexity

- ✓ Complexity is the default state
 - There isn't a "physics", just local decisions
 - It grows one day at a time
- ✓ Consistency at scale is a daily choice
 - Agree idioms and guiding principles
- ✓ Strive for simplicity
 - Choose tools and techniques that make it easier

Summing up

Complexity is the default condition

Simplifying is always an option

Consistency is the key

It really shouldn't be this difficult

Thanks for listening

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