



FA²STR — How to Decompose, Architect, Design, Implement & Test Anything On Any Side of the Stack

**Let's see where all of this leads.
Remember: we're developing your
problem decomposition skills. This is
the main skill.**

**The Ideal Developer
Workflow is great, but...**

Examples:

- *How do I handle playlist re-ordering? How do I design the feature on the backend?*
- *How do I design auth on the frontend properly?*
- *Basically... when a problem seems out of your wheelhouse just because you haven't done that particular thing before.*
 - *You still need to have a way to think through how you'd do it — and you want to feel confident in your thinking*

How do you consistently go from
A non-trivial design challenge →

To

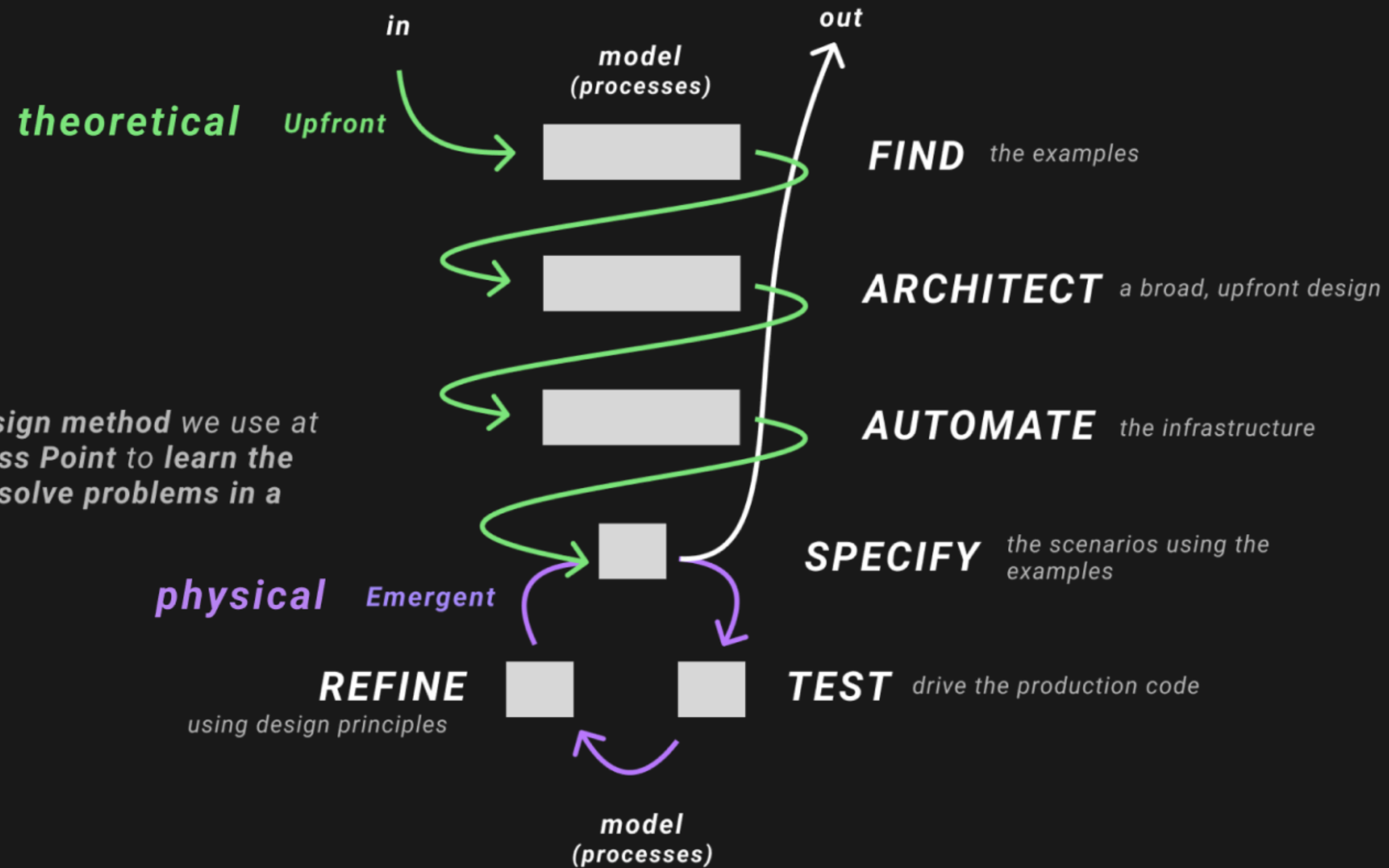
Decomposed action steps →

Arch, design, implemented, tested code →

**This community needs a
framework (or **design method**)
to think **through**,
communicate, and
consistently decompose and
solve design challenges.**

FA²STR

The repeatable **design method** we use at each **Physical Guess Point** to learn the **12 Essentials** and solve problems in a consistent way.



What is the FA²STR Design Method?

- *The culmination of everything I know about problem decomposition using the 12 Essentials*
- *The best of TDD, BDD, RDD.*
- *A way to remember the steps of The Ideal Developer Workflow*
- *A way to think through unique design challenges and end up with testable code*
- *A way to work Outside-In, guiding your work with tests at each level of The Guess Points*

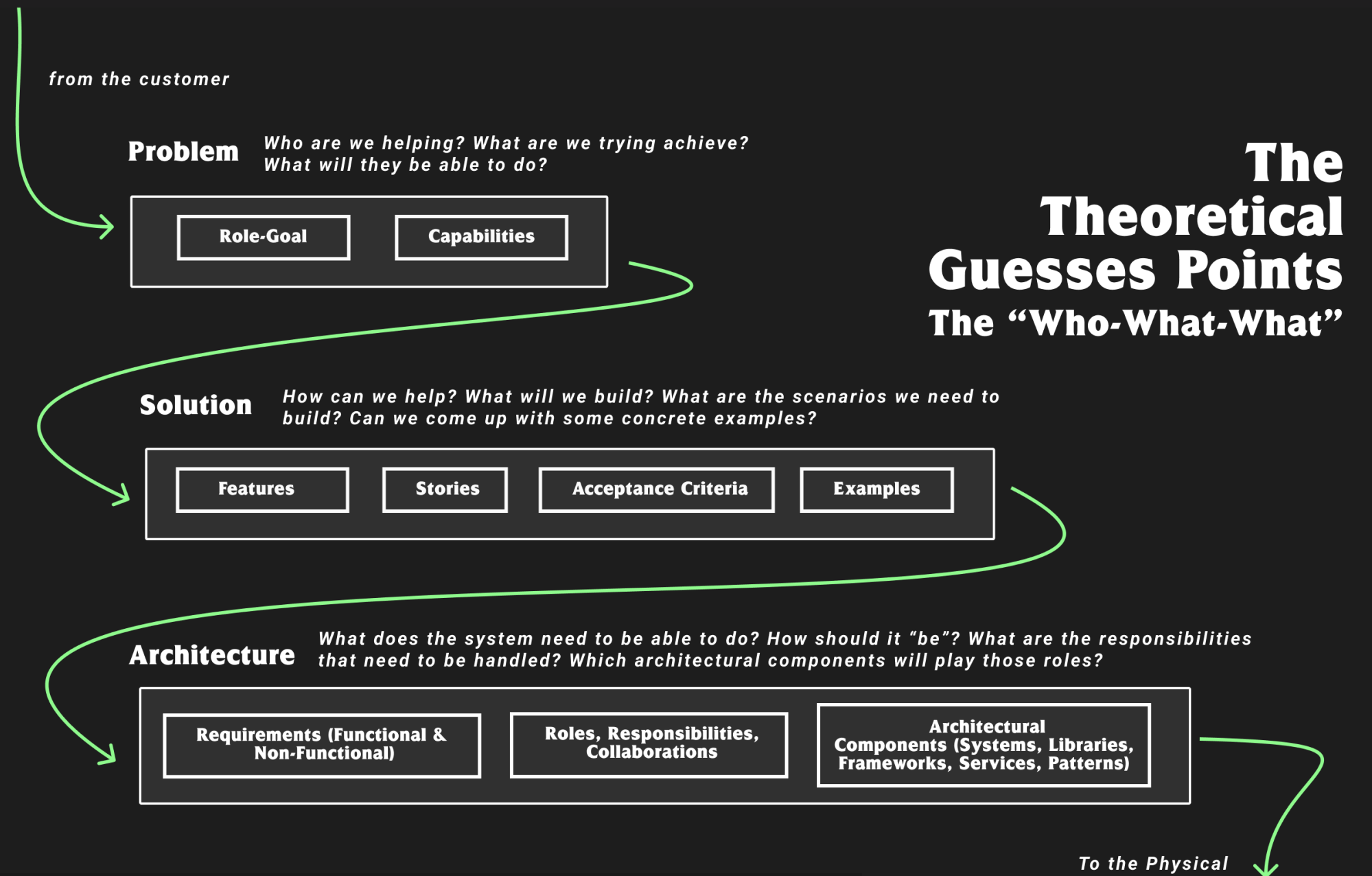
What does it stand for?

- *FIND the theoretical guesses & get concrete examples*
- *ARCHITECT the broad stroke solution*
- *AUTOMATE the system under test infra*
- *SPECIFY the acceptance criteria*
- *TEST the implementation*
- *REFINE the implementation*

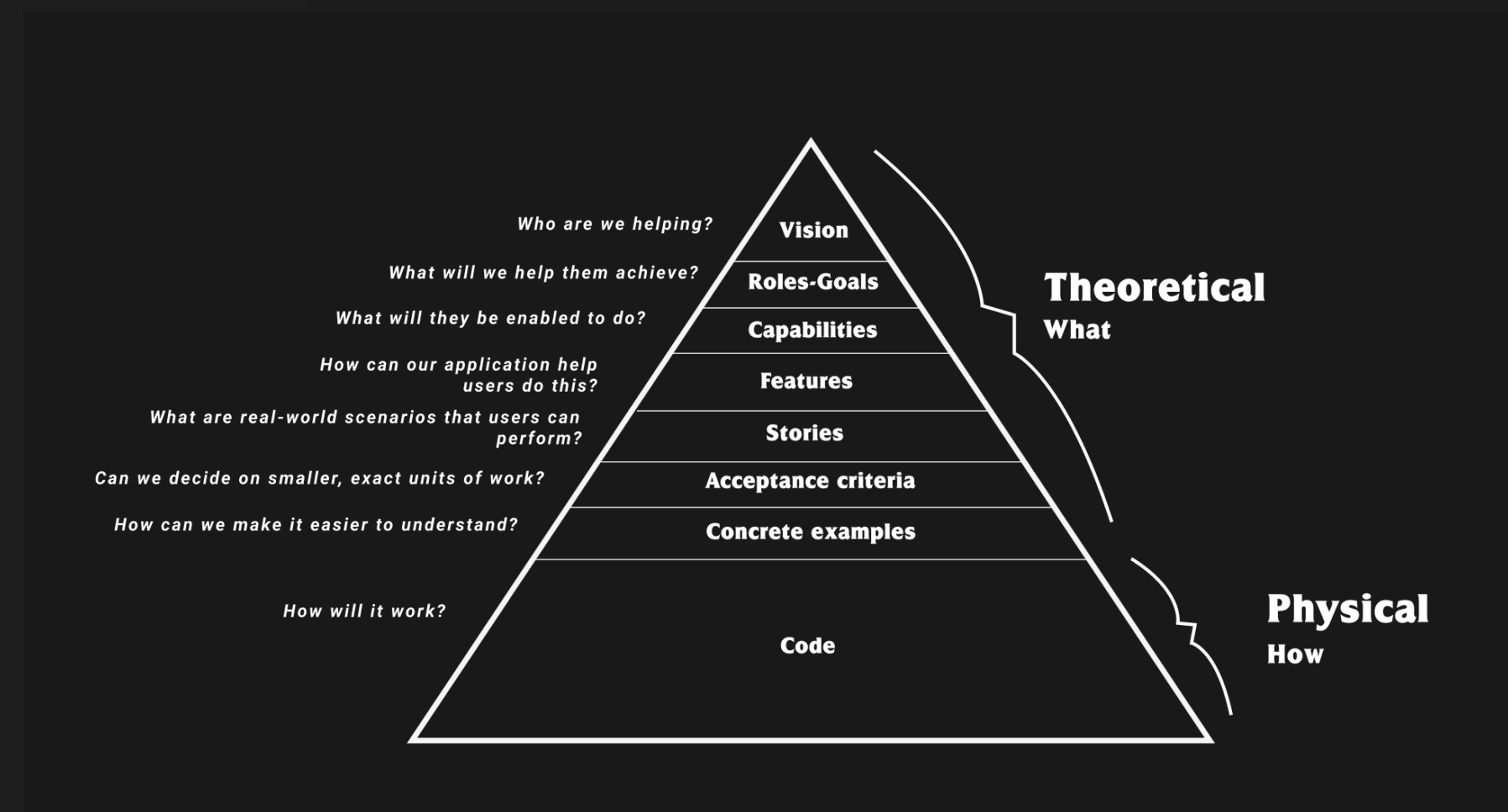
Example: Notion to Google Calendar Sync

Find

- *Who, What, Why, Concrete Examples*
- *Scenarios:*
 - *No Change*
 - *New Tasks*
 - *New Calendar Event*
 - *Task Completed Before Event*
- *Examples for each*

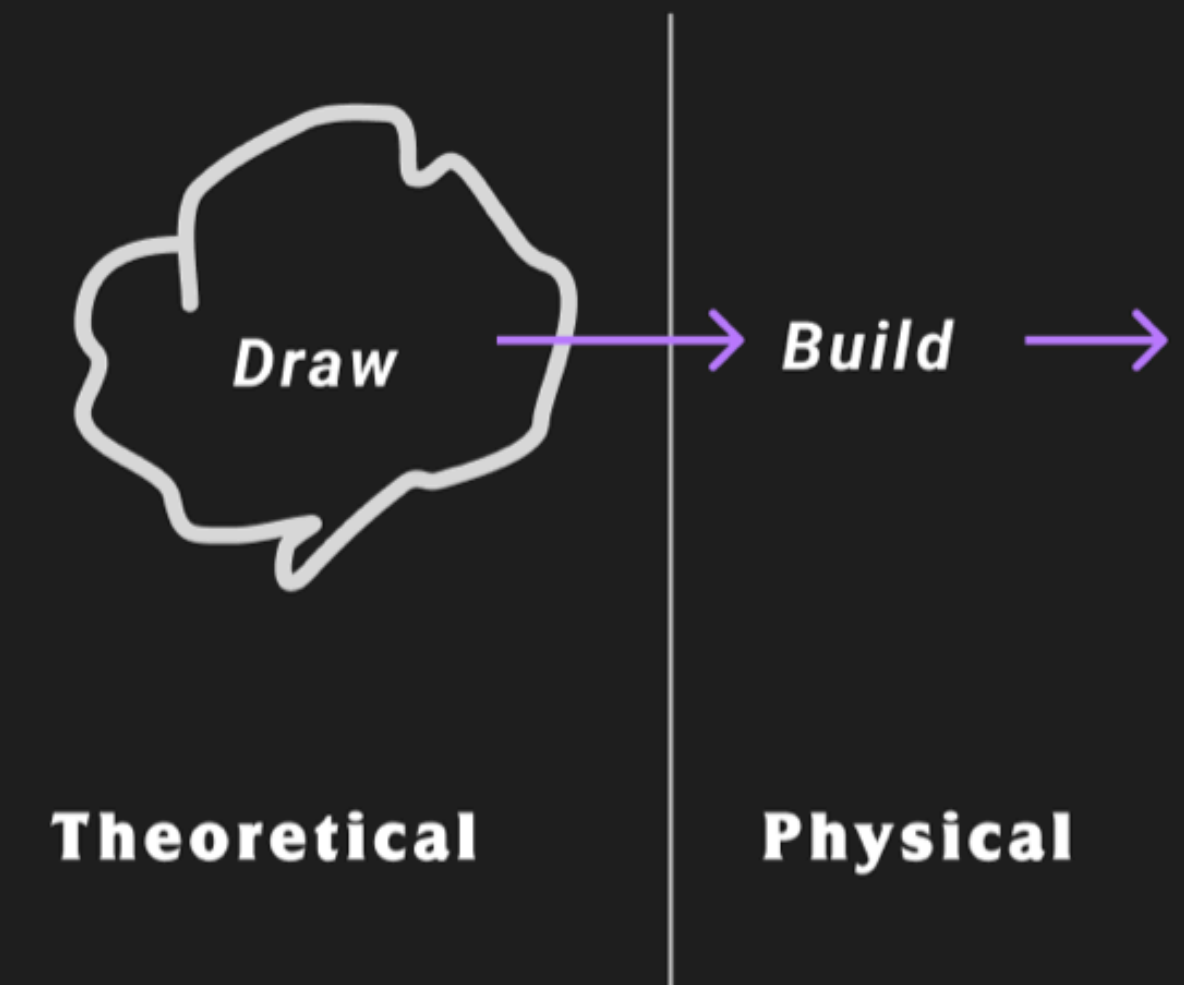


**The
Theoretical
Guesses Points
The “Who-What-What”**



Architect

- *Determine the Patterns we'll use*
- *Determine any new Components we need*
- *Determine the Testing Strategy we'll use to test at which Guess Points*
- *If we already have an architecture, testing strategy, well established patterns & the necessary components, this is much easier, but we need to move through The Guess Points like a checklist*
- *Create a broad stroke architecture!*

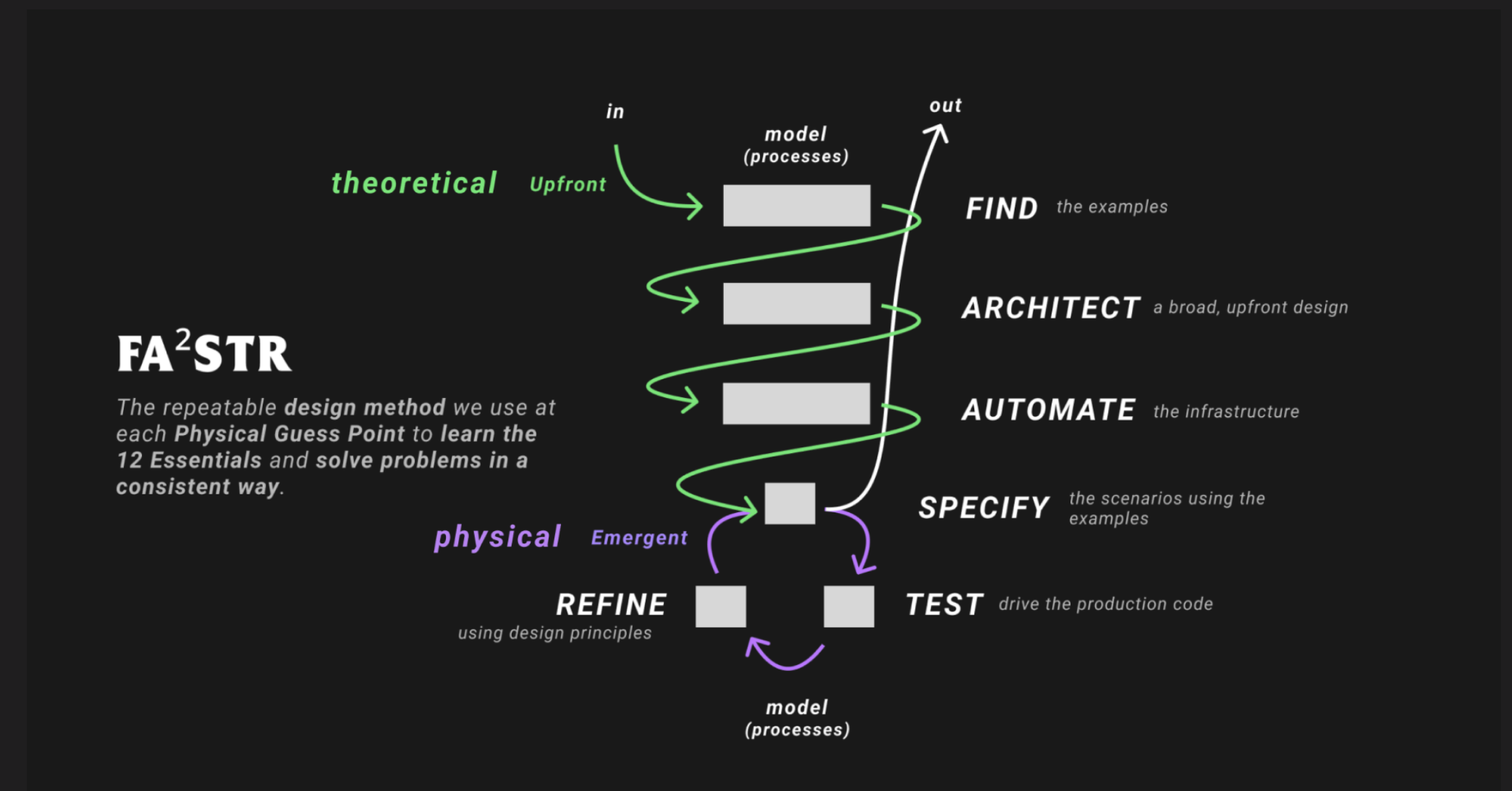


Automate

- *Forces me to think through the test infrastructure and if I'm going to be able to verify the acceptance criteria (and what that even is) before I write any code*
- *Think Backwards; start at the end; define success before we start*
- *"How will I test this?"*
- *Make a decision*

Specify-Test-Refine

- *If you're familiar with TDD, it's Red-Green-Refactor*
- *Write the acceptance criteria at whichever Guess Point we're currently working at, make it pass, then refine*
- *We'll discuss how this works in more detail in The Phases of Craftship*



FA²STR: a combination of what we need from design, testing, architecture & strategy in a single mental model

What we covered