SASS: SYSTEMIZING YOUR STYLES

CSS: The Browser's Reality

SASS: The Architect's Plan

SASS (Input) JetBrains Mono

```scss
$primary: #10B981;
$secondary: #475569;

.card {
  padding: $padding-lg;
  background: $secondary;
  color: lighten($secondary, 90%);

  &-header {
    font-weight: bold;
  }
}
```

CSS (Output)

```css
.card {
  padding: 24px;
  background: #475569;
  color: #F5F5F0;
}

.card-header {
  font-weight: bold;
}
```

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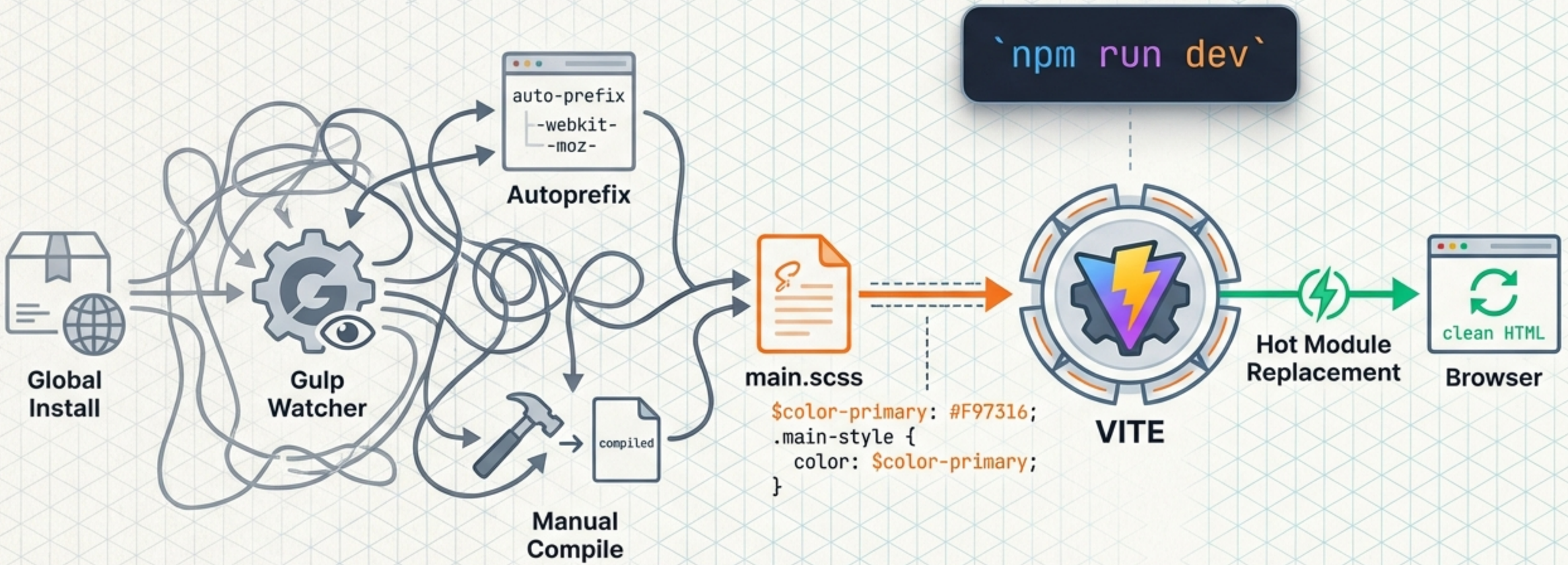
THE INVISIBLE WORKFLOW



Old School Pipeline

Modern Platform

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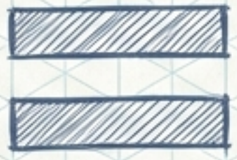
CSS, EXTENDED

SCSS Input: JetBrains Mono

```scss
.btn {
  display: inline-block;
  padding: 1rem;
  color: white;
}
```



CSS Output: JetBrains Mono

```css
.btn {
  display: inline-block;
  padding: 1rem;
  color: white;
}
```

SASS IS A SUPERSET.
ALL VALID CSS IS VALID SCSS.

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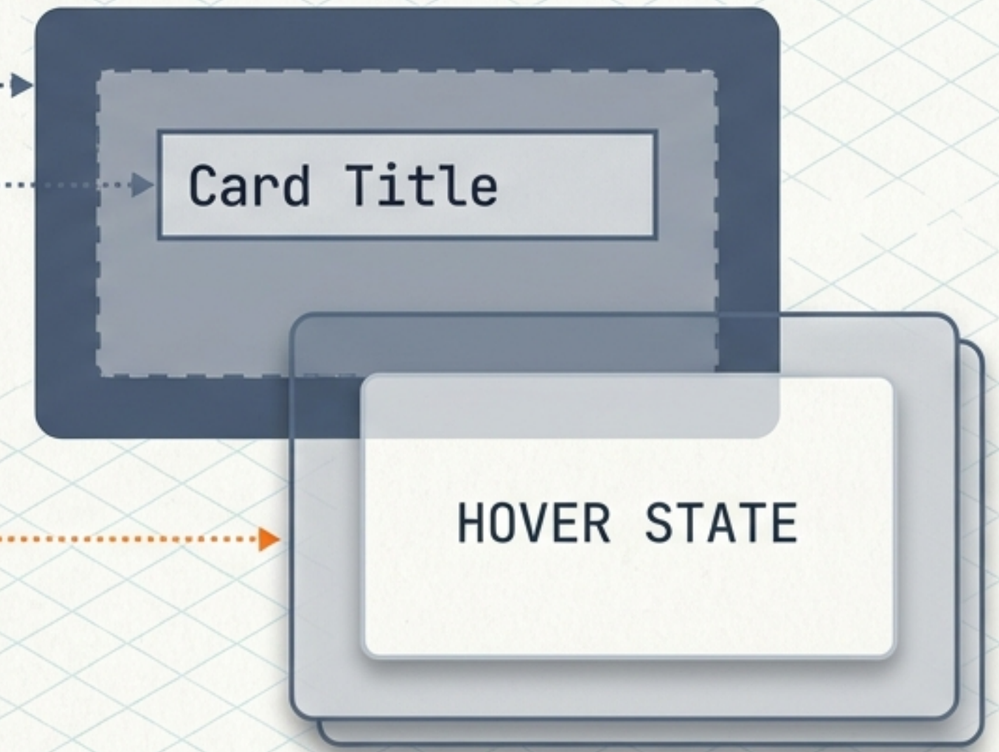
VISUAL HIERARCHY & THE PARENT SELECTOR

```
.card {
  padding: 2rem;

  .card-title {
    font-weight: bold;
  }
  &:hover {
    elevation: high;
  }
}
```

Readability over Cleverness



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COMPILE TIME VS. RUNTIME

SASS ($var)

Static Organization

```
$primary: #3366ff;
```

SASS Generates System

CSS Custom Prop (--var)

Dynamic State

```
--primary: #3366ff;
```

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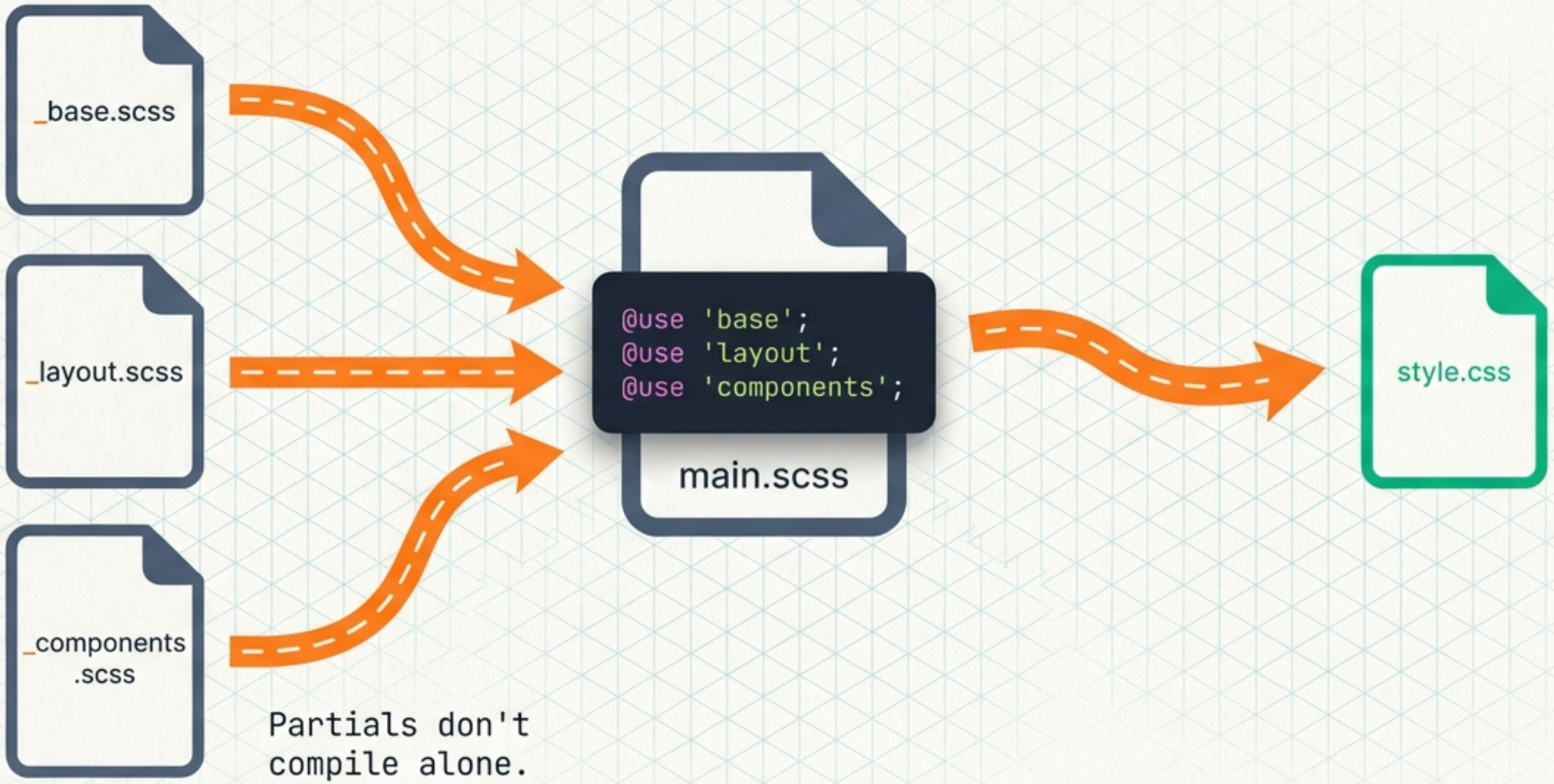
THE SINGLE ENTRY POINT



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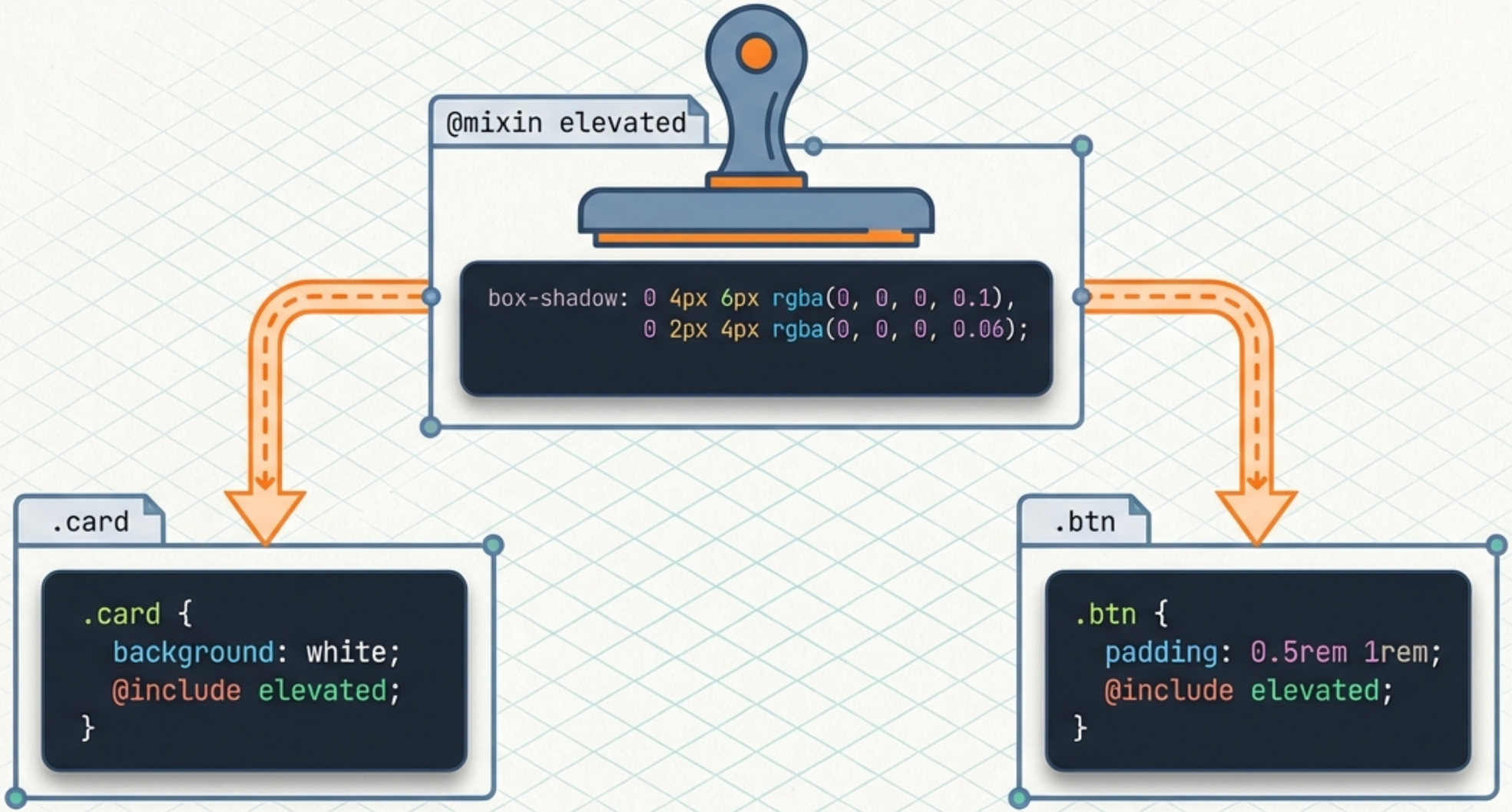
MIXINS: REUSABLE BEHAVIOR



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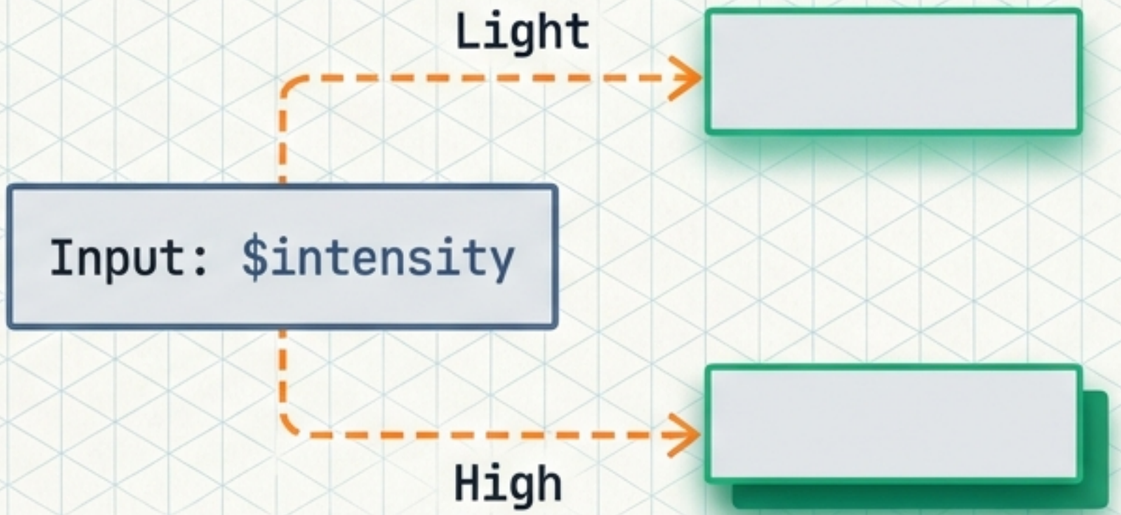
PROGRAMMABLE LOGIC

```
@mixin elevated($intensity: high) {
  @if $intensity == light { ... }
  @else { ... }
}
```



Arguments + Control Flow = Smart Styles

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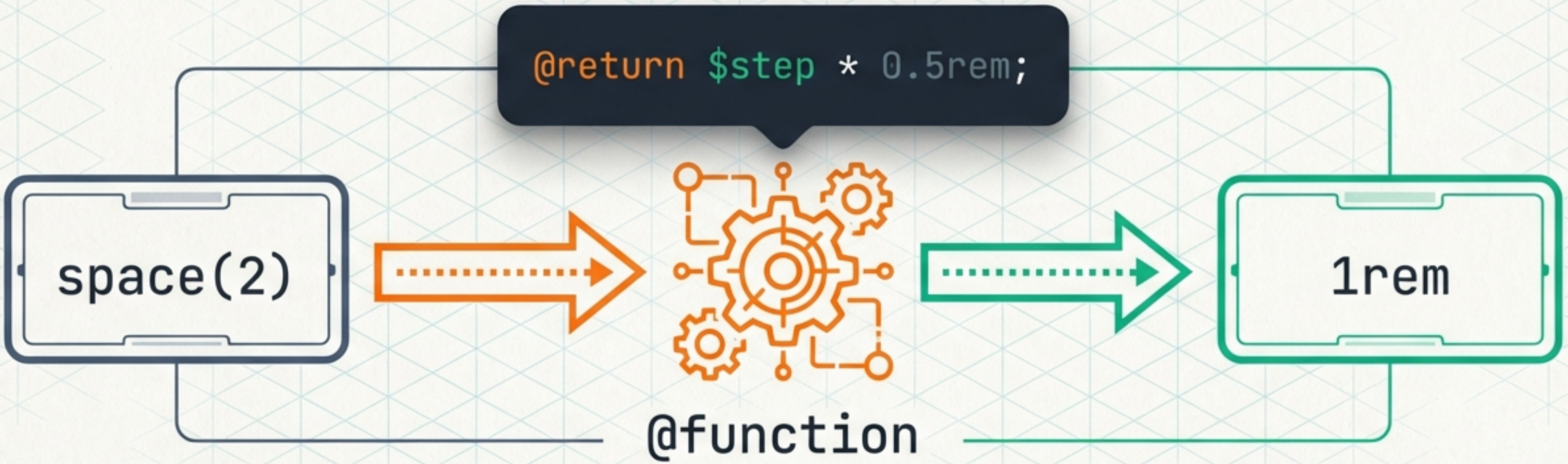
FUNCTIONS COMPUTE VALUES



Mixins output CSS Blocks. Functions return Values.

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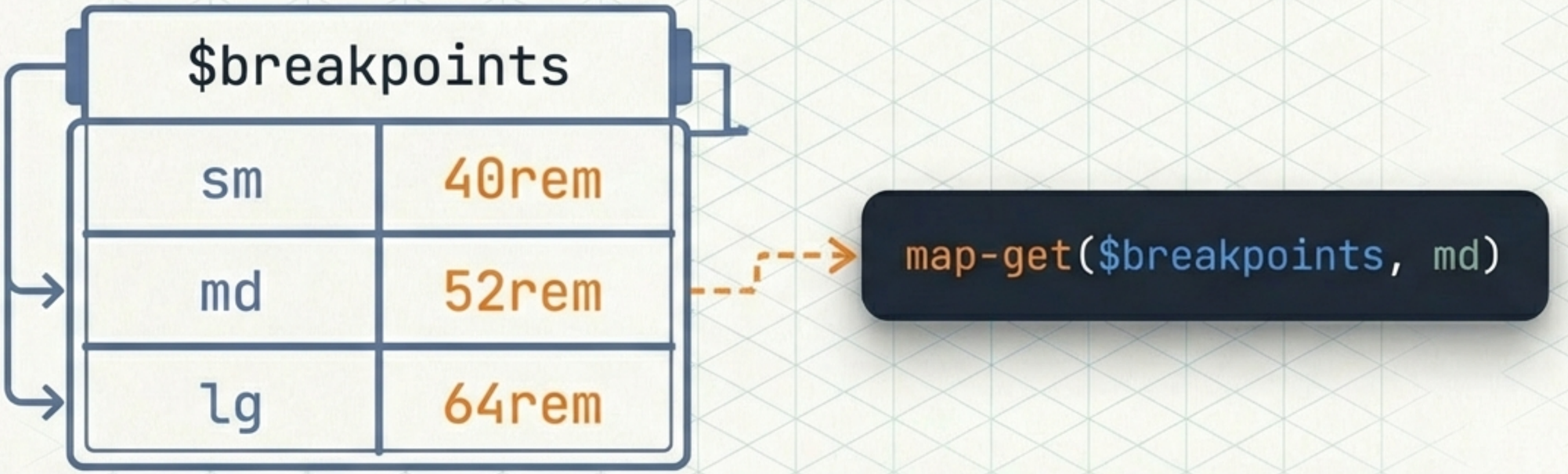
MAPS: THE SOURCE OF TRUTH



Centralized Data Structure

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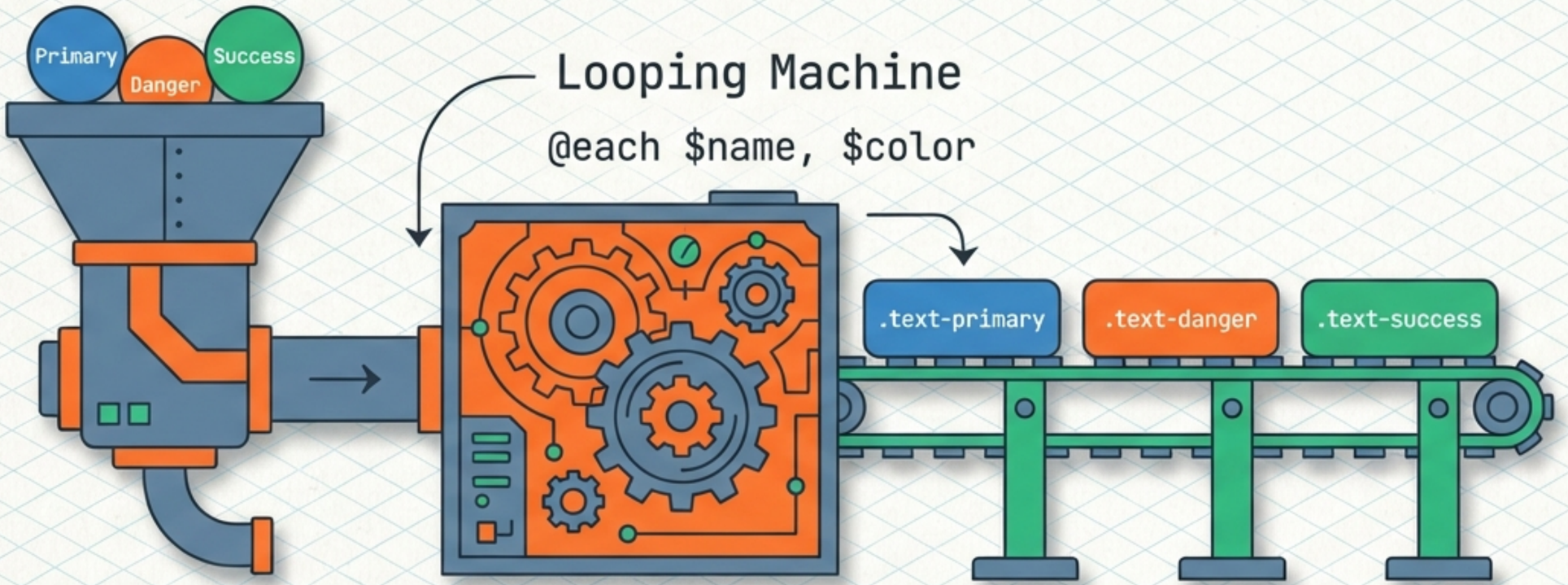
CONTROLLED GENERATION



Don’t write 50 classes. Write one loop.

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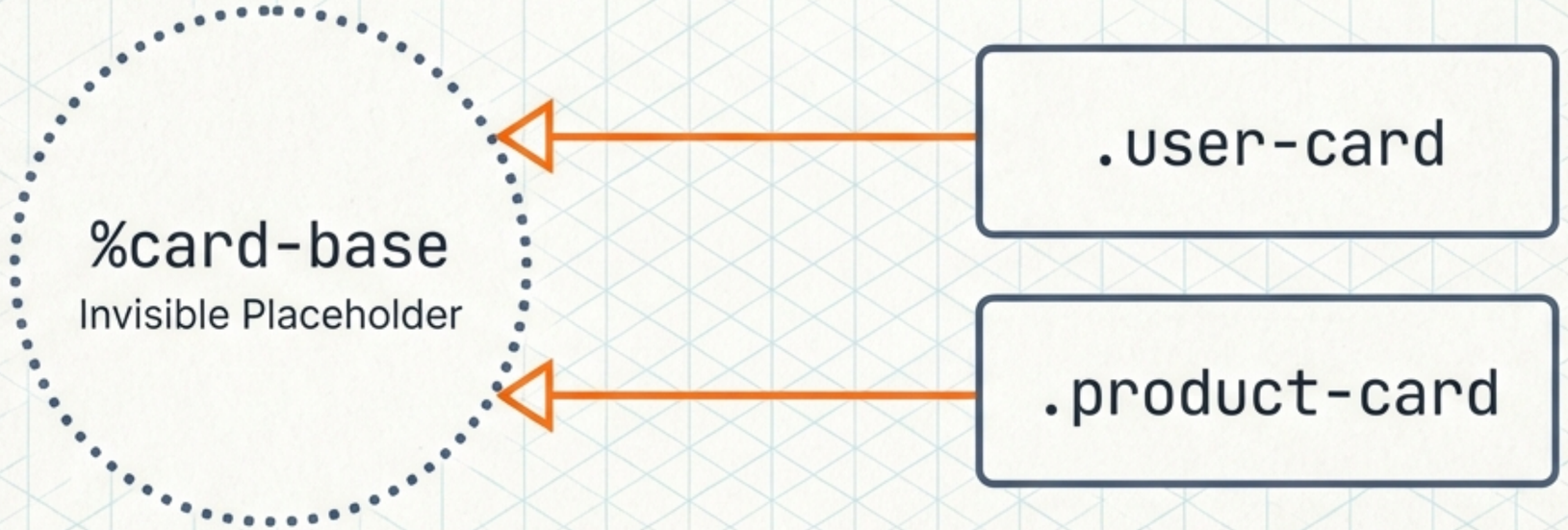
SEMANTIC EXTENSION



Compiled Output

```
.card-base, .user-card, .product-card { ... }
```

Use % for Is-A relationships.

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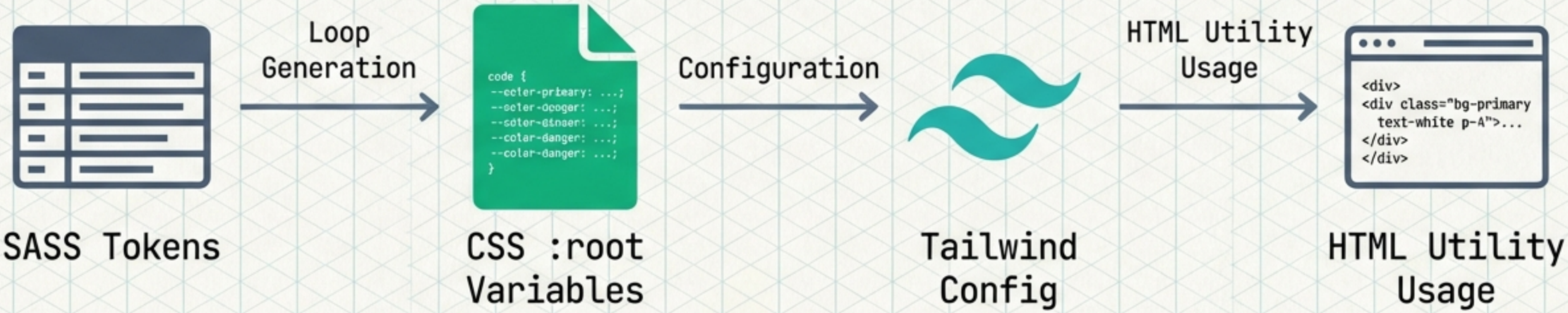
THE MODERN CONTRACT: SASS + TAILWIND



SASS manages the Design Tokens. Tailwind consumes them.

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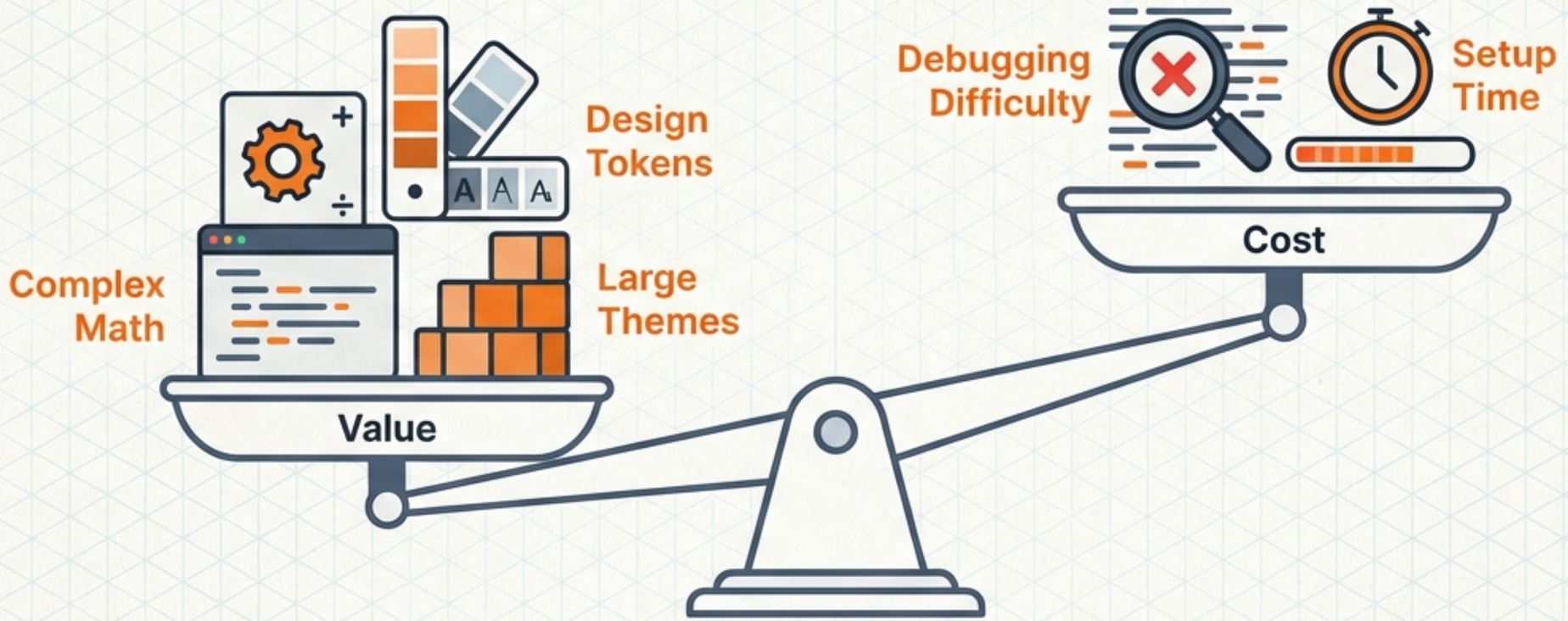
WHEN TO ABSTRACT



Golden Rule: Abstraction should **solve a real problem**, not anticipate an imaginary one.

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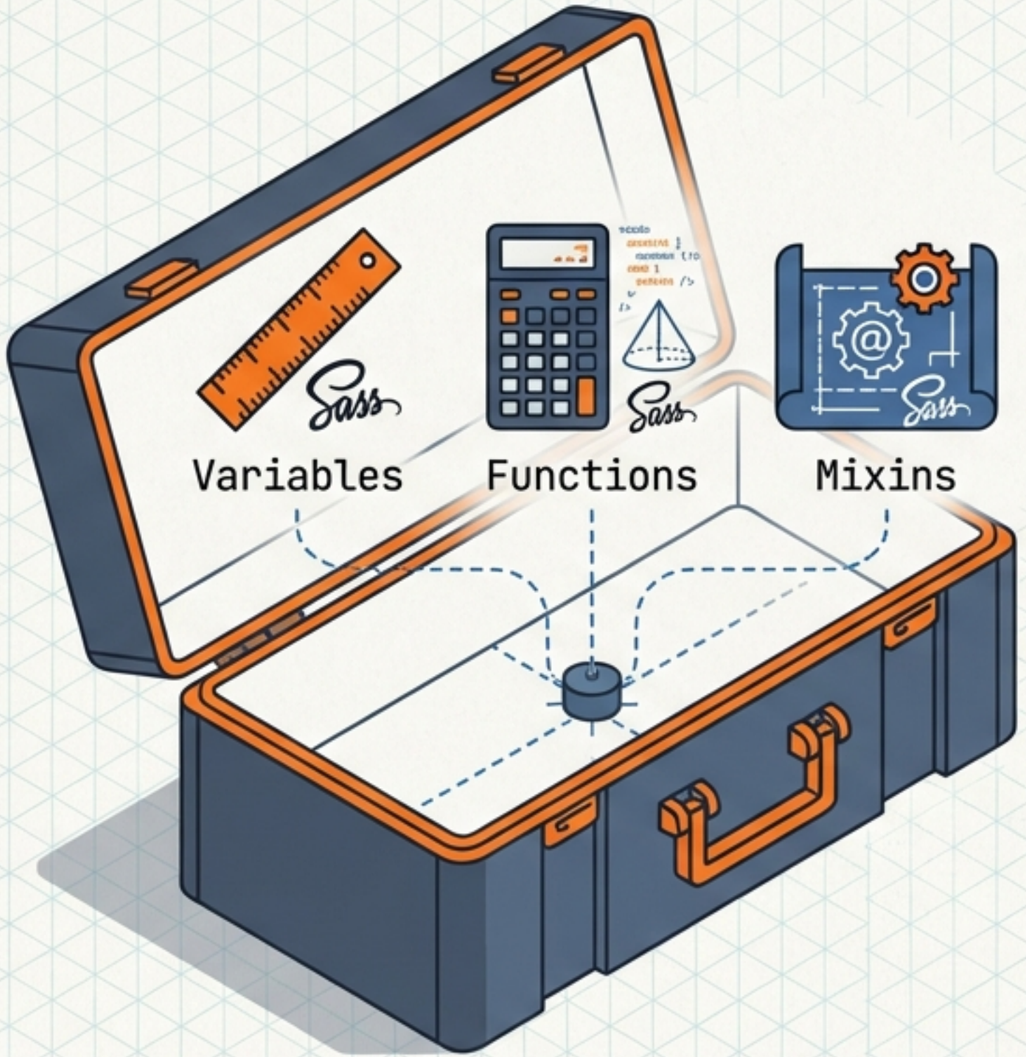
GO BUILD THE TOOLKIT



Bits, Bytes, and Bobs

Regex Boss Battle

Sass Compendium

Design the System that writes your Styles.

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