NESTED GRIDS

Real-world Layout Composition

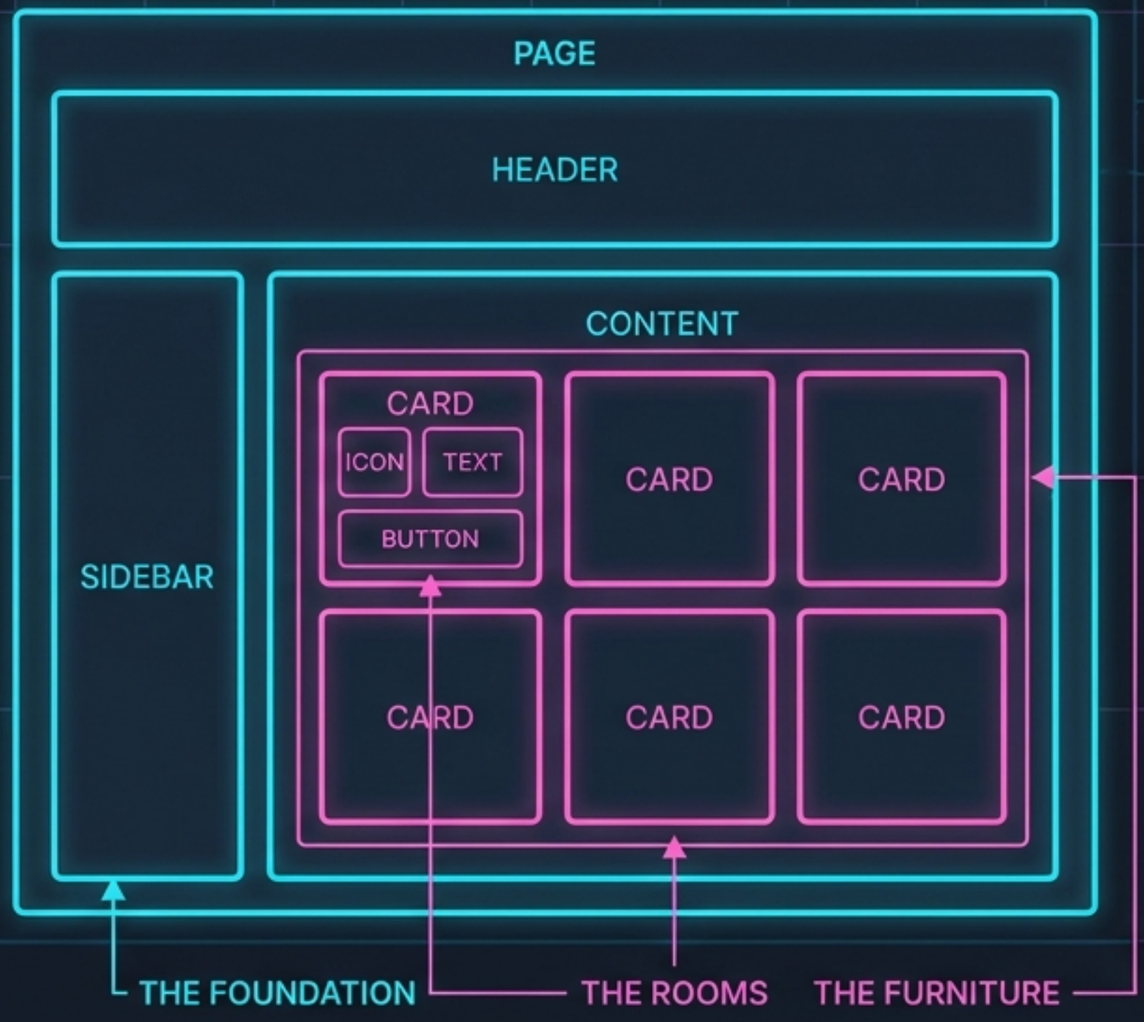
REAL LAYOUTS ARE NOT ONE GRID.

They are layers of structure.

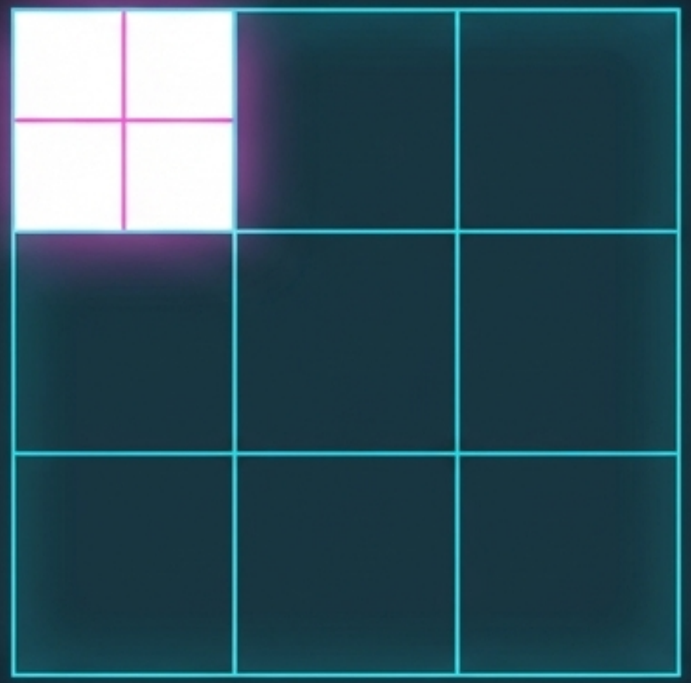
Page-level: The Foundation (header / sidebar / content)

Section-level: The Rooms (cards, tiles, galleries)

Component-level: The Furniture (icon + text + actions)

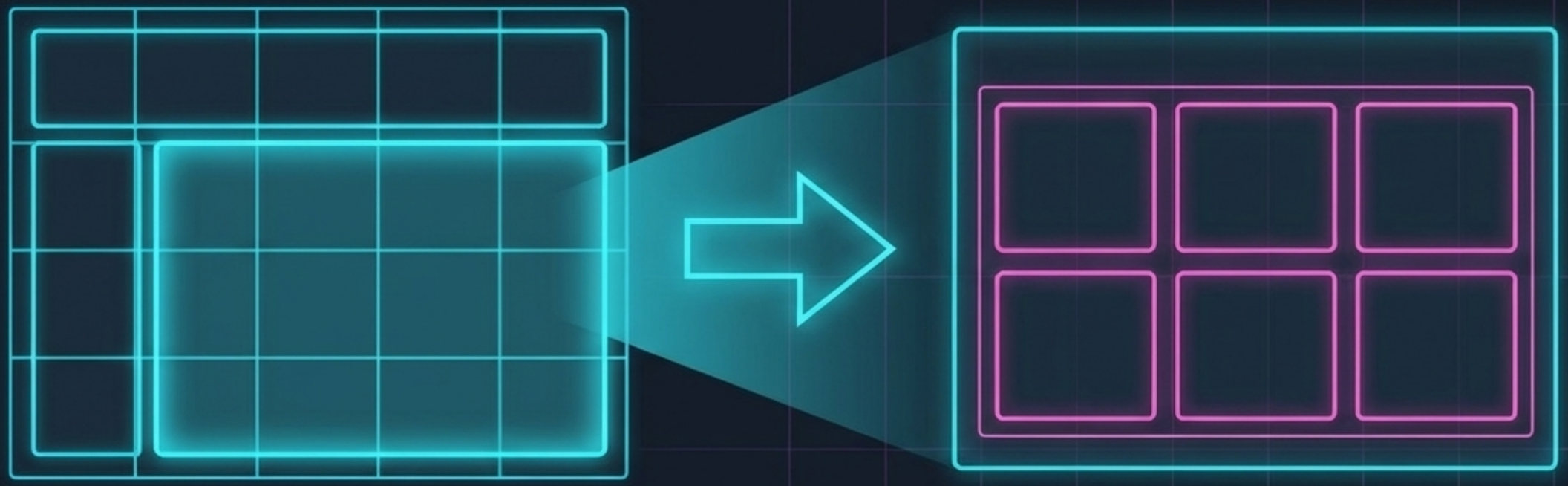


THE CORE RULE



“A grid item can also be a **grid container**.”

THE PATTERN: COMPOSE LAYERS

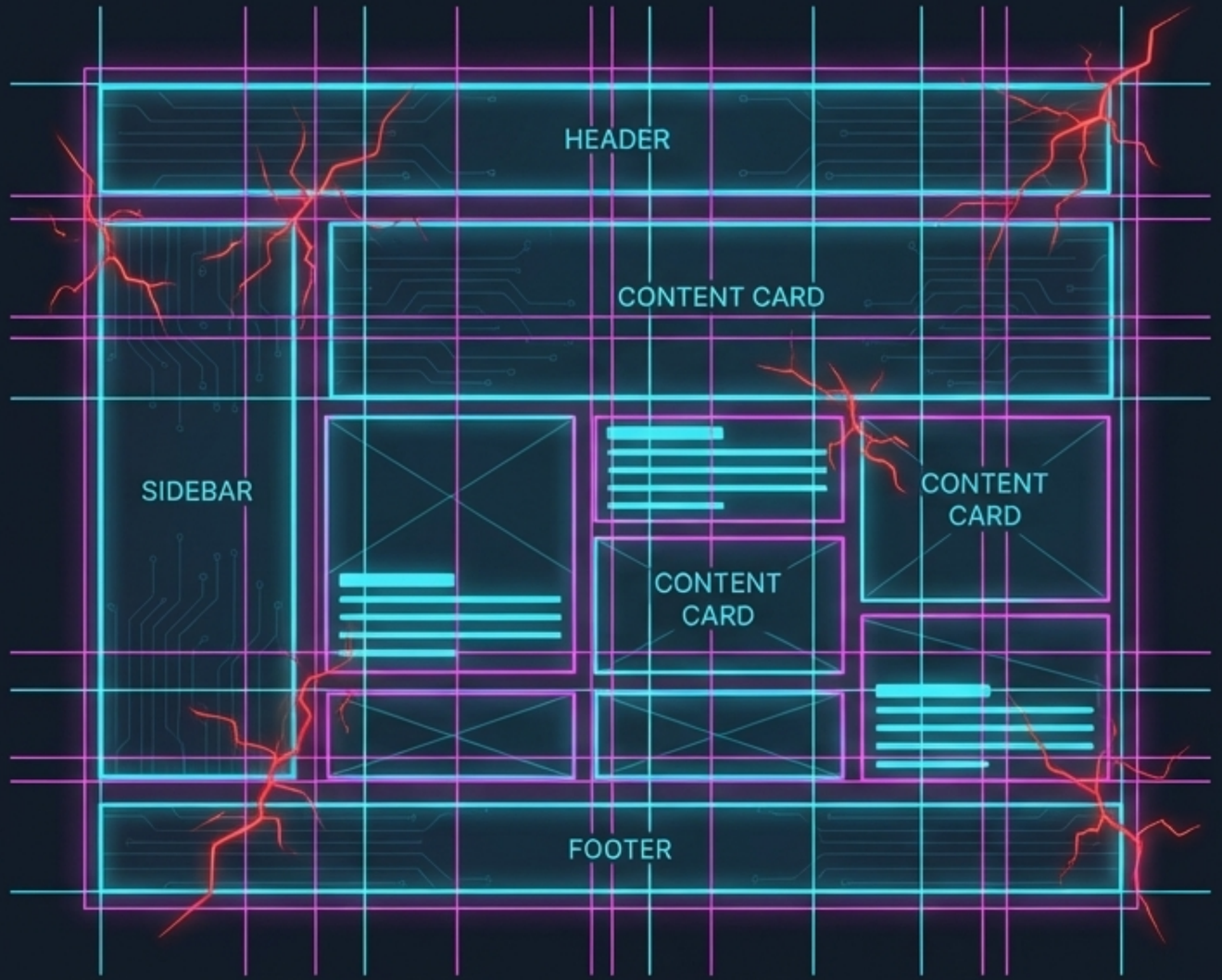


Outer Grid: Page Layout

Inner Grid: Section Layout

The outer grid defines the big structure. The **inner grid** defines the structure *inside* a region.

THE COMMON MISTAKE: ONE GRID TO RULE THEM ALL

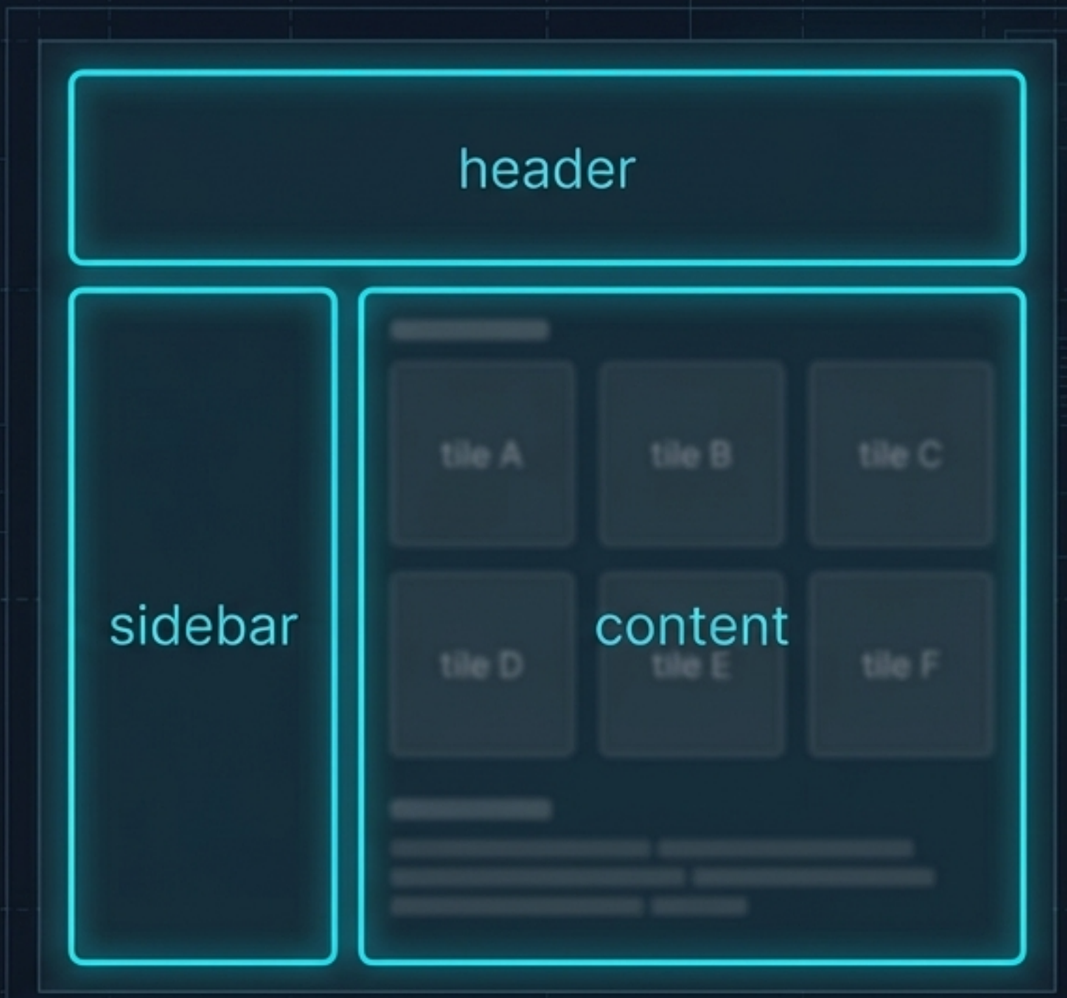


Forcing a single grid to manage every element leads to:

- Unreadable templates
- Brittle placement rules
- Layouts that explode on resize

STEP 1: BUILD THE FOUNDATION

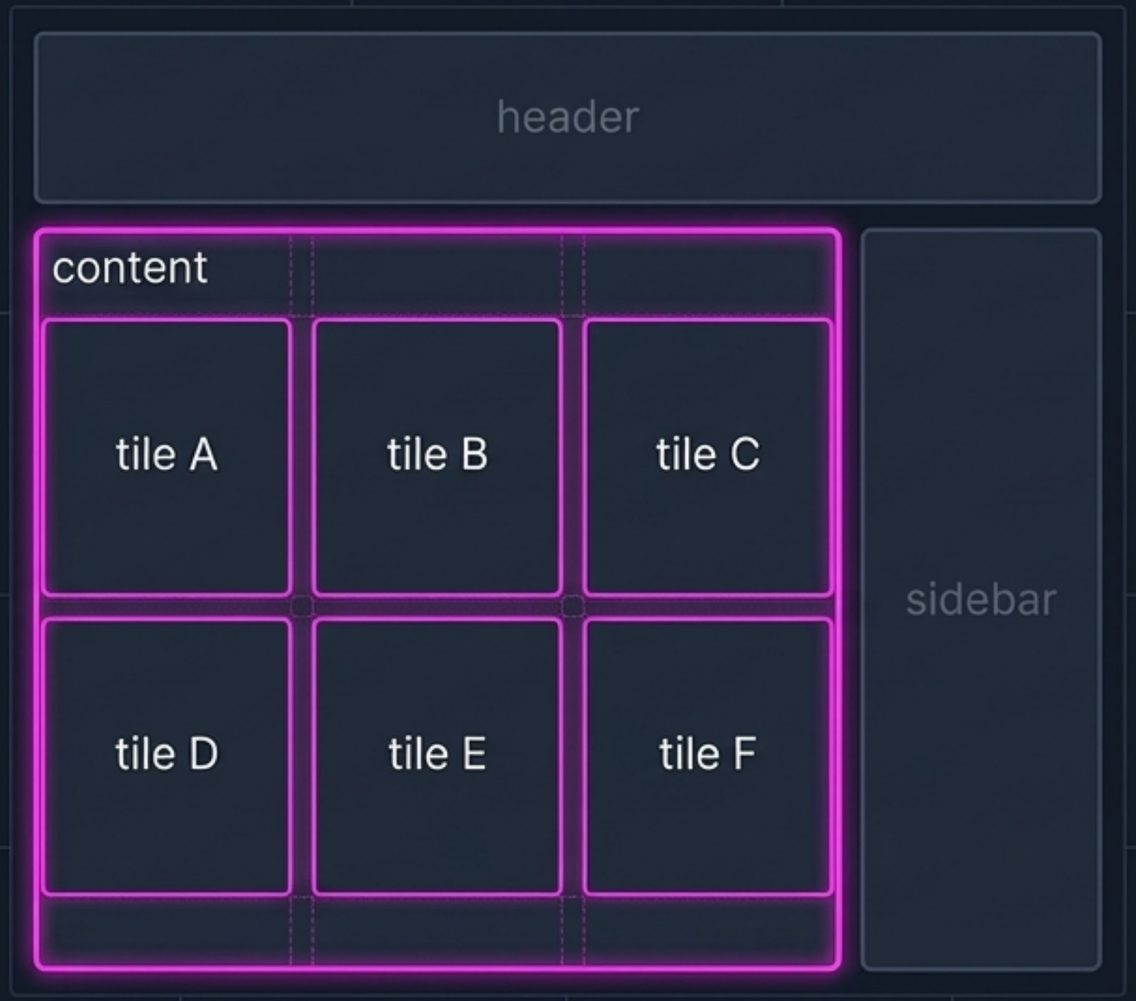
```
/* OUTER GRID (page layout) */
.page {
  display: grid;
  grid-template-areas:
    "header  header"
    "sidebar content";
}
```



The outer grid establishes the main page regions. It knows nothing about what's inside 'content'.

STEP 2: GRID THE INSIDE

```
/* INNER GRID (inside content) */
.content {
  grid-area: content;
  display: grid; /* <-- THE MAGIC! */
  grid-template-columns: repeat(3, 1fr);
}
```



The `.content` element is a grid item of the page, and now it becomes a grid container for the tiles.

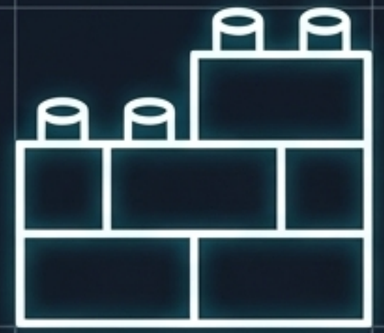
WHY NESTING WINS

Cleaner Templates

Each grid has a single, clear purpose.

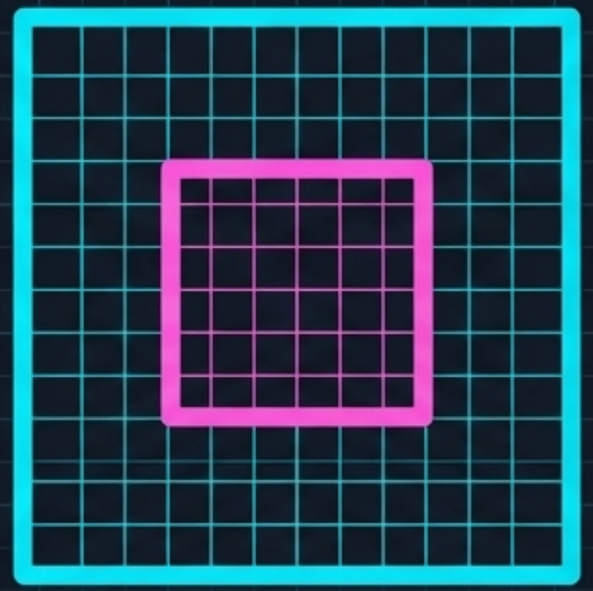
Isolated Concerns

Changes to an inner grid *never* break the outer layout.



Stable & Scalable

You’re composing grids like LEGOs—strong and easy to modify.



“Build the big grid.
Then grid the inside.”

p.s., keep learning!