

Fractional Units (**fr**)

The Unit That Makes Grid Feel Alive

The Old Guard: Rigid & Fragile

Pixels are rigid.



```
grid-template-columns: 250px 250px 250px;
```

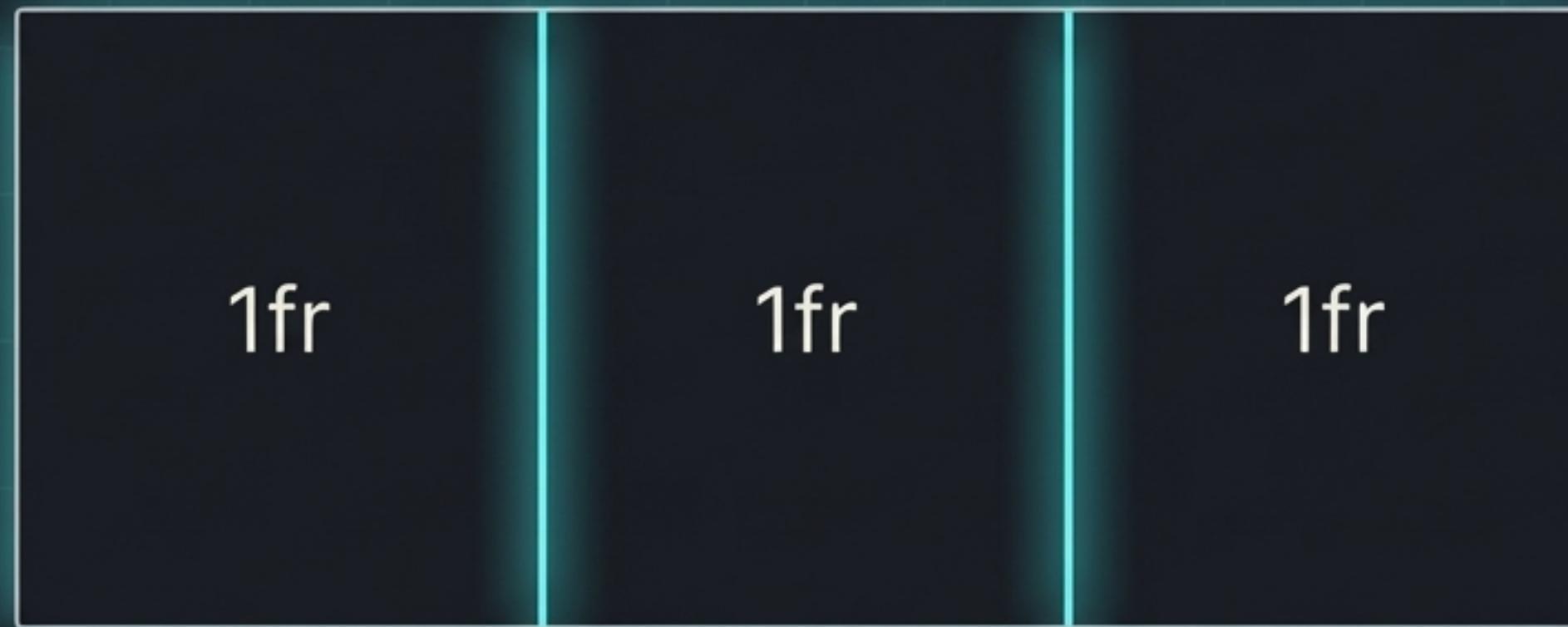
Percentages are fragile.



```
grid-template-columns: 50% 50%;
```

Grid's Native Power Move

The `fr` unit represents a **fraction of the available space** in the grid container.



`grid-template-columns: 1fr 1fr 1fr;`

How `fr` Claims Space



1. First, Grid calculates all fixed tracks (px, rem, %, etc.).

2. Then, the **remaining space** is divided proportionally among the fr tracks.

Rule: fixed tracks are calculated first. **fr** divides whatever space is left.

Fraction Wars: A Layout Battle

Let's test different track strategies to see which layouts adapt gracefully.

Pick a track strategy

px: 220 220 220

%: 33 33 33

fr: 1 1 1

fr ratio: 2 1 1

mixed: 14rem 2fr 1fr

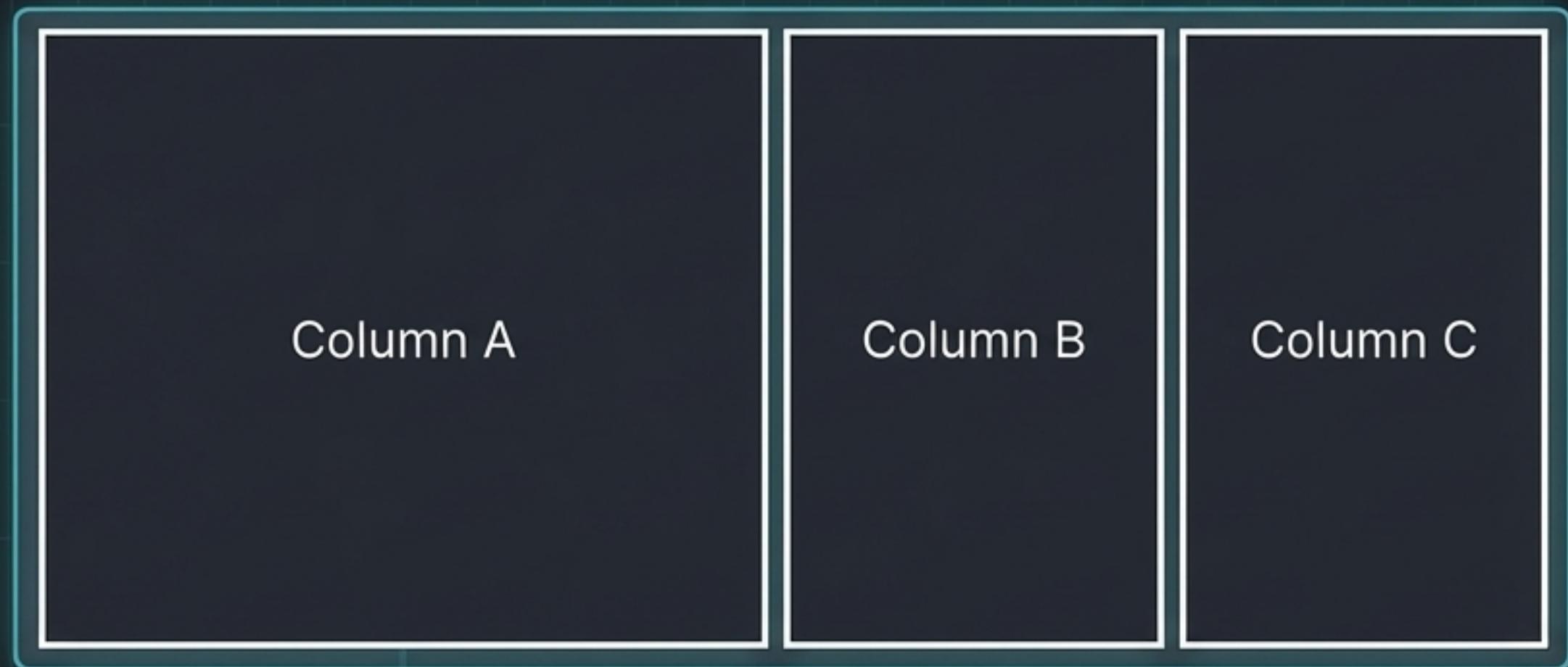
Container max-width: 41rem



Rule: fixed tracks are calculated first. fr divides whatever space is left.

Strategy: Relative Ratios

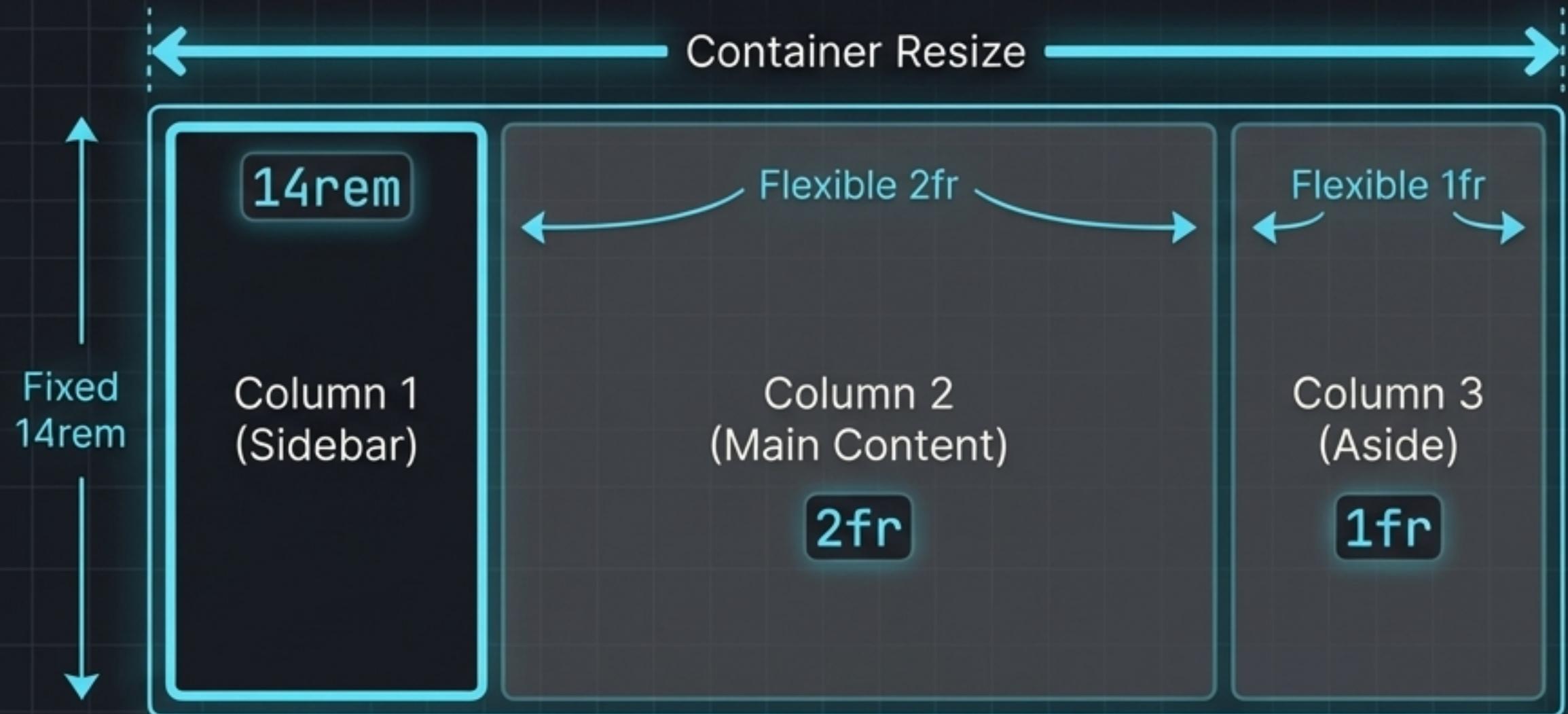
`grid-template-columns: 2fr 1fr 1fr;`



Fractions are relative. A `2fr` track will always be twice the size of a `1fr` track ***within the same calculation***. It's not about being equal; it's about **proportion**.

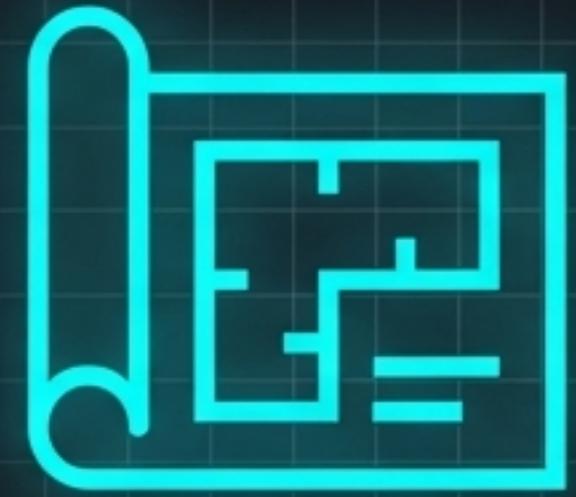
Strategy: Mixing Fixed & Flexible

grid-template-columns: 14rem 2fr 1fr;



This is the ultimate **power move**. Define intrinsically sized columns with fixed units and let **fr** handle the rest. Perfect for sidebars and main content layouts.

The Winning Strategy



Pixels Define.

Use for elements with a known, intrinsic size.



Fractions Adapt.

Use for elements that should fill the remaining space.

**Flexible layout without
math anxiety.**



p.s., keep learning!