

# 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.

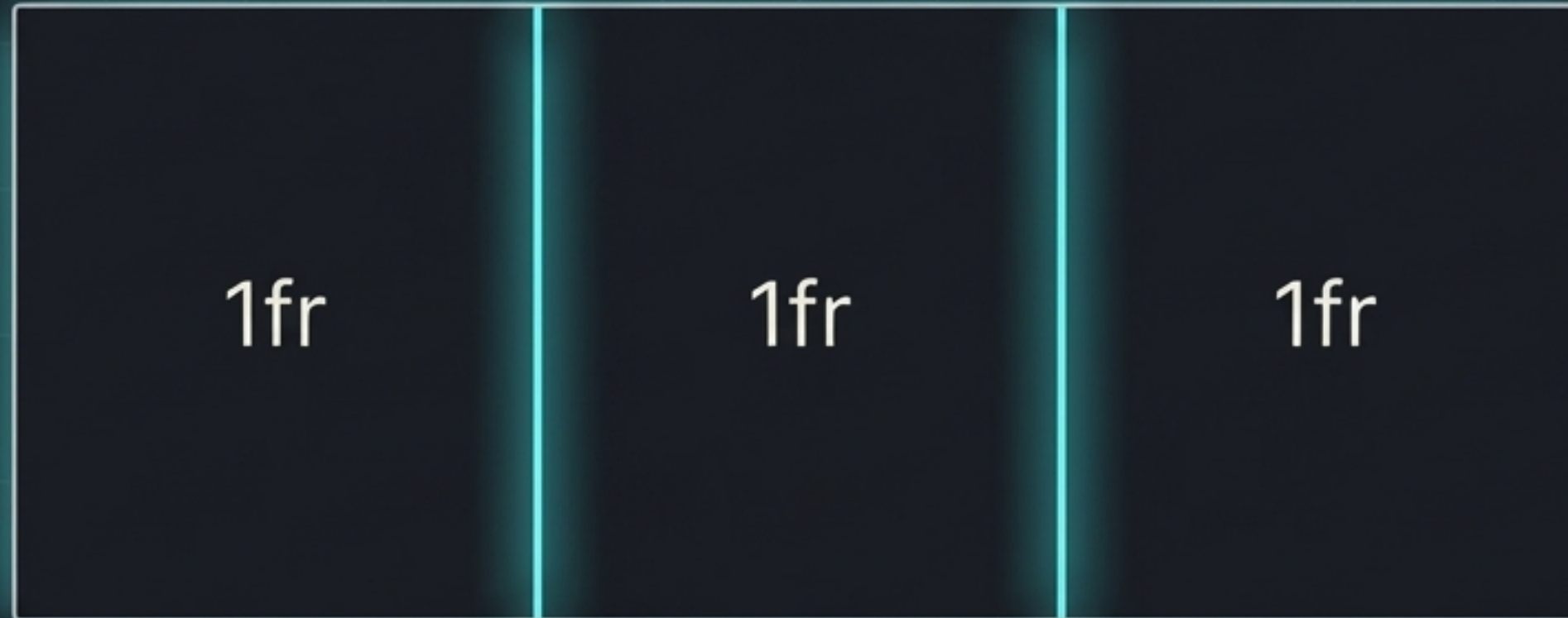


$50\% + \text{padding} > 50\%$

```
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



**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

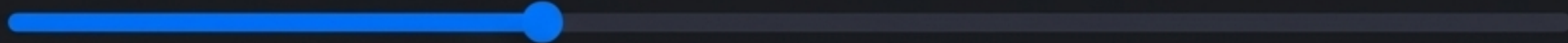
?: 33 33 33

fr: 1 1 1

fr ratio: 2 1 1

mixed: 14rem 2fr 1fr

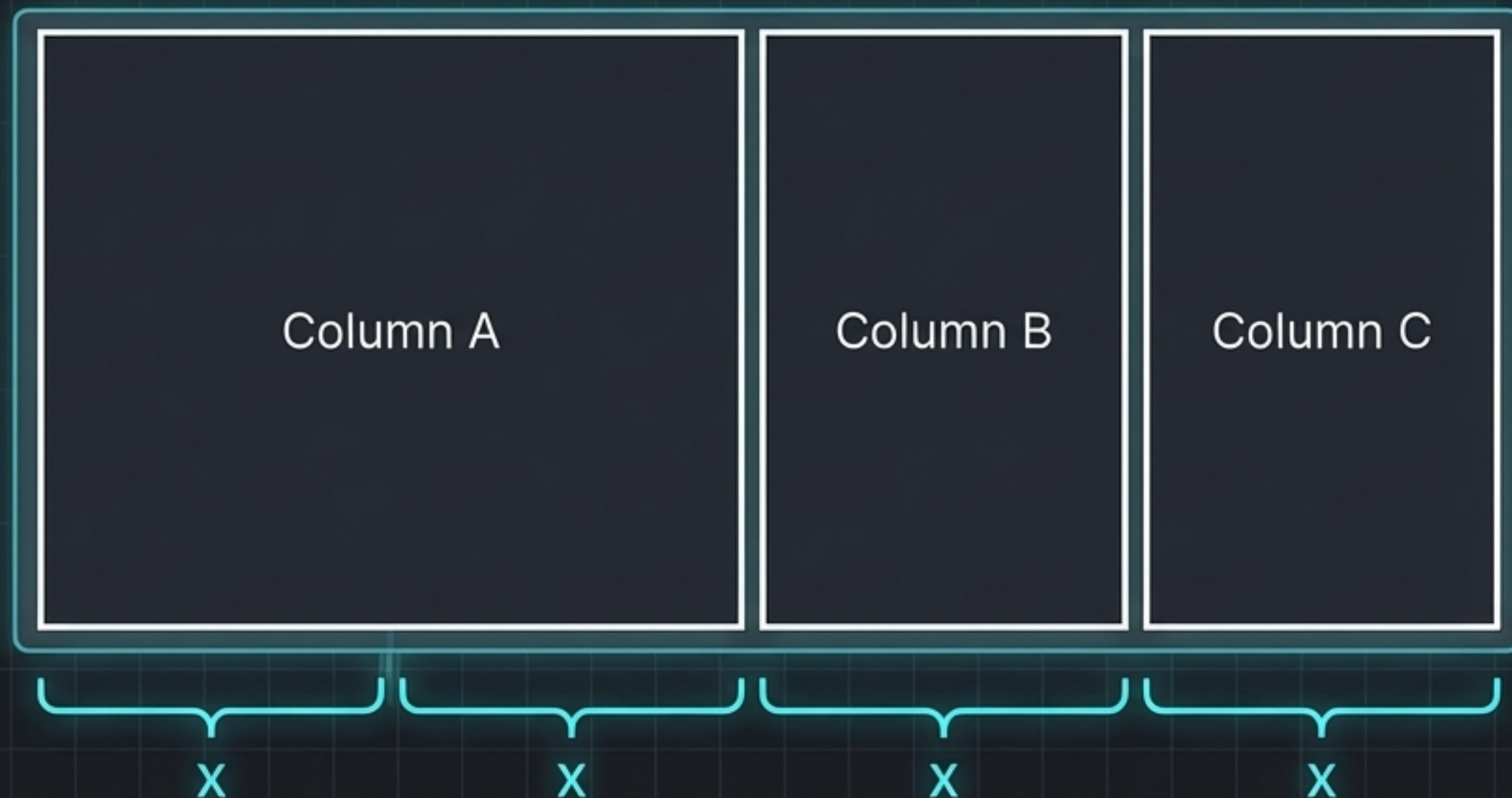
Container max-width: 41rem



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

# Strategy: Relative Ratios

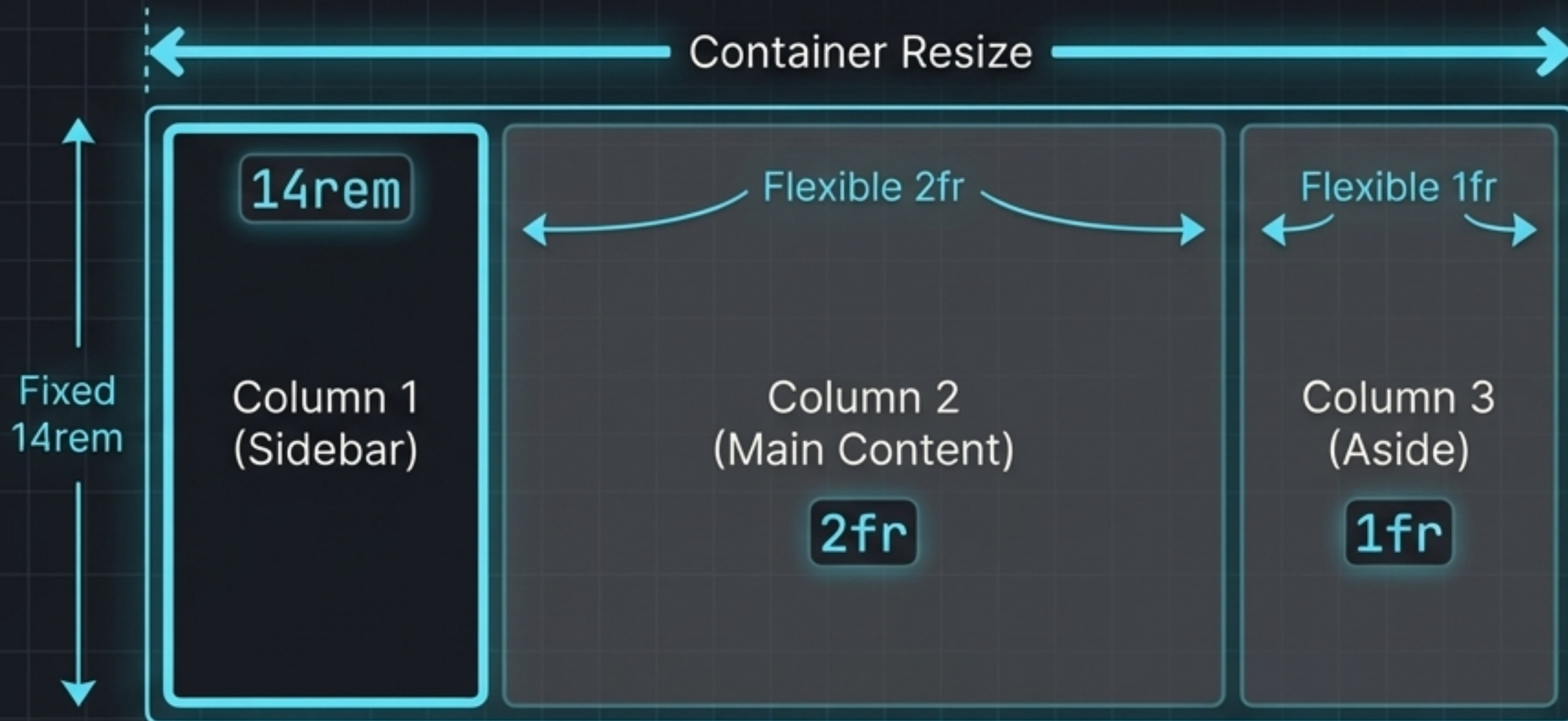
```
grid-template-columns: 2fr 1fr 1fr;
```



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**.

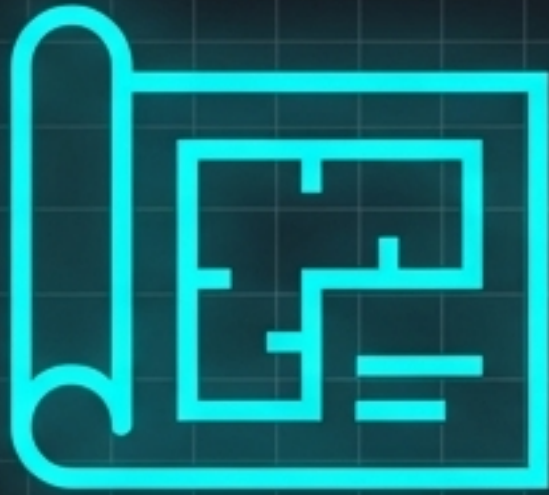
# Strategy: Mixing Fixed & Flexible

`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!**