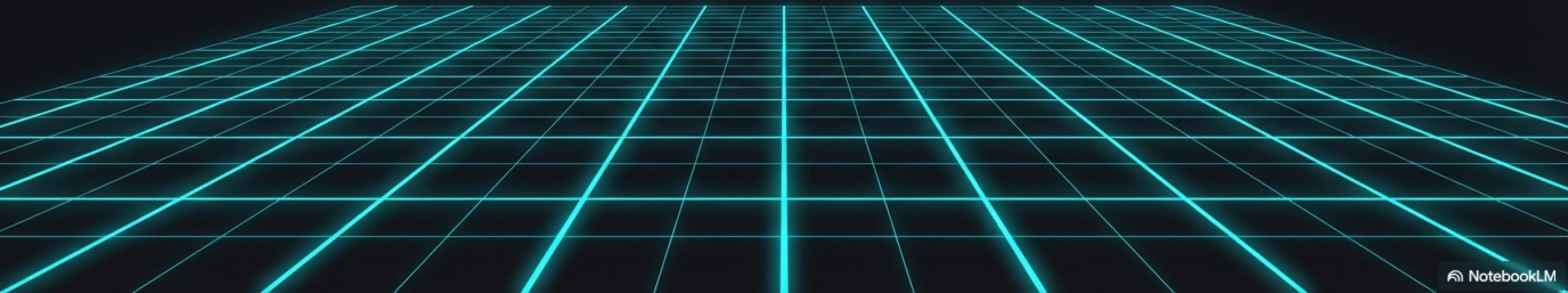


AUTO-FLOW & PLACEMENT DIRECTION

How Grid Decides What Goes Where



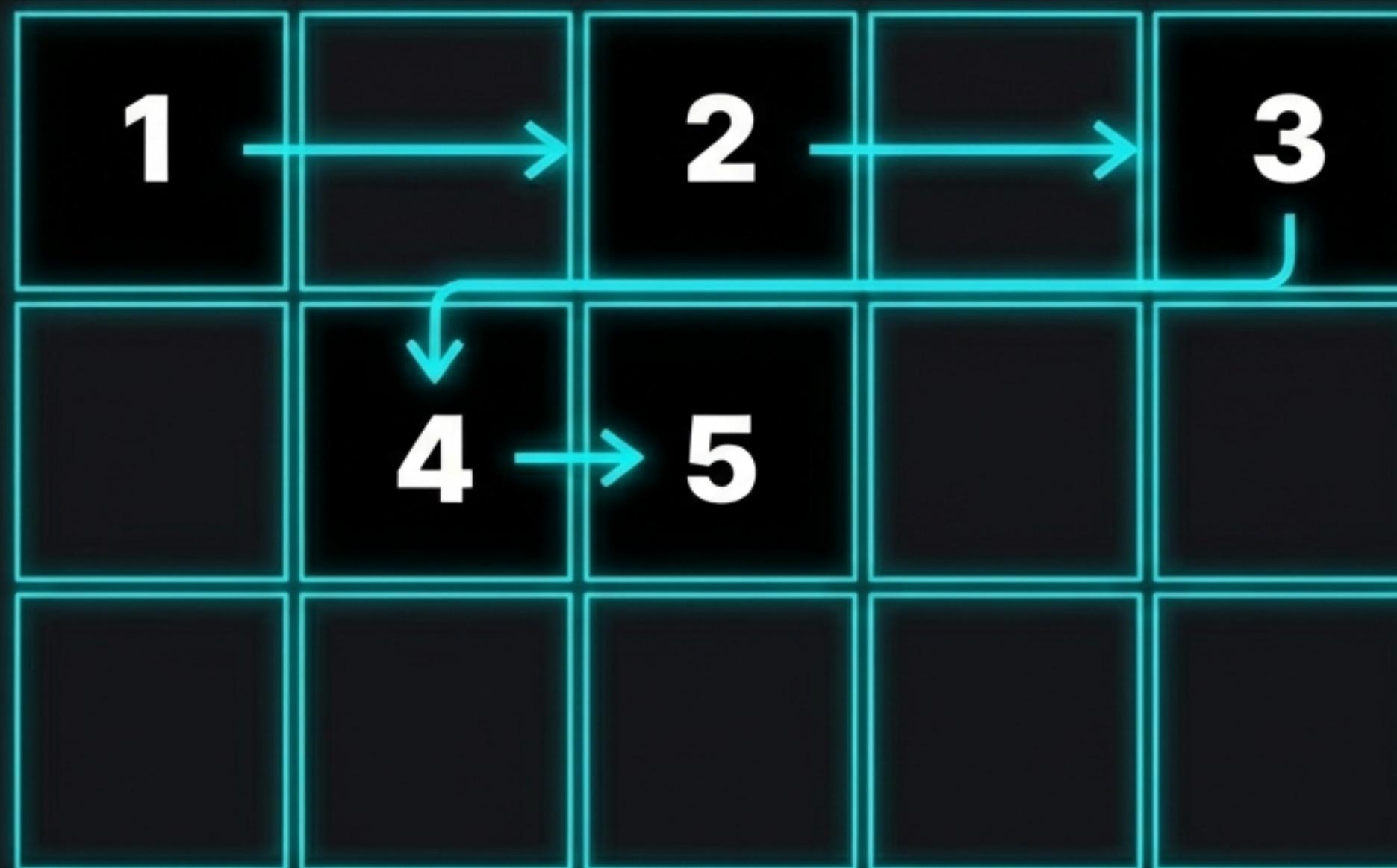
Grid places items when you don't.



When you don't explicitly place grid items, Grid follows a set of rules to place them for you. This is **auto-placement**. This is the rulebook Grid uses to fill the grid.

THE DEFAULT: `row` FLOW

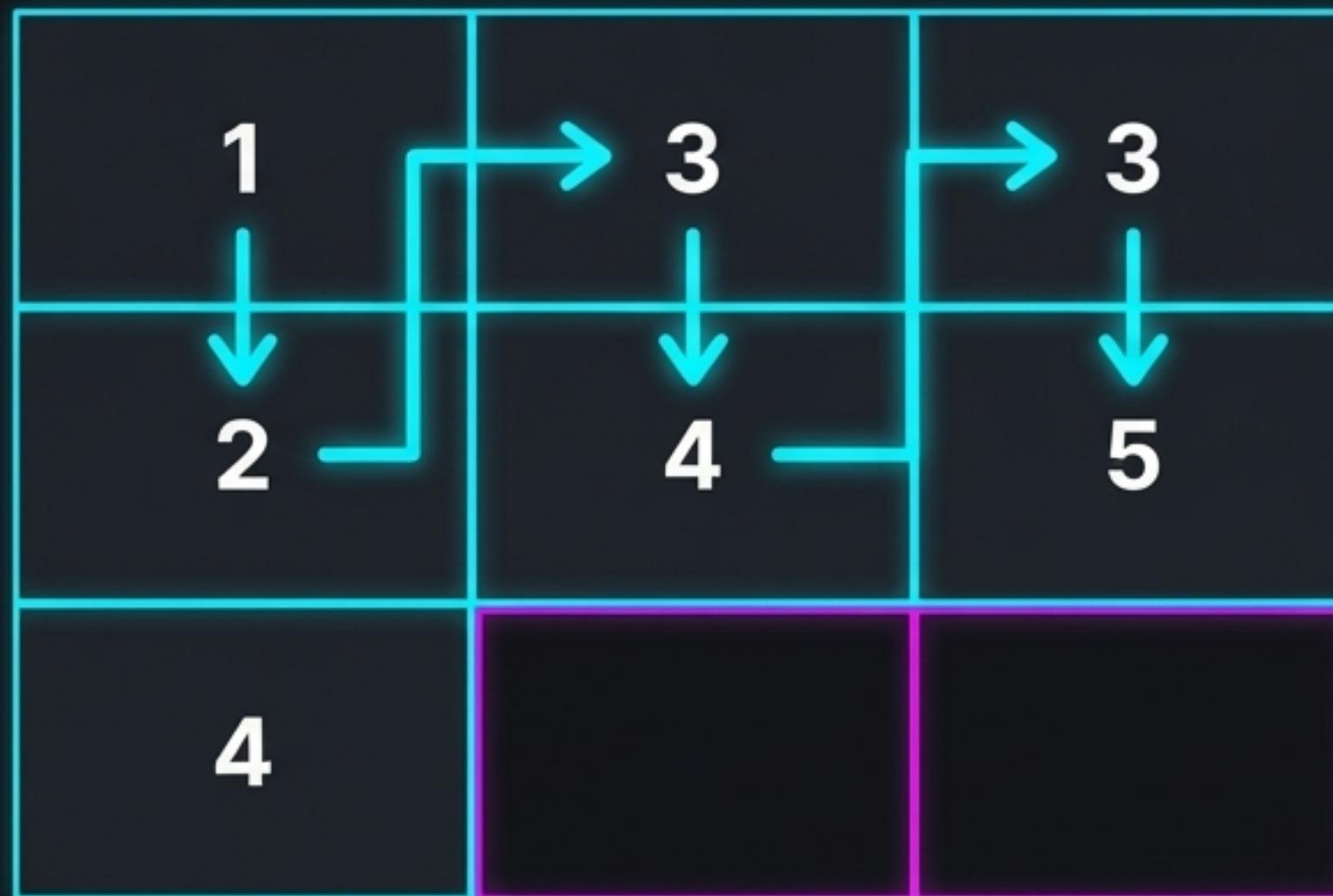
```
grid-auto-flow: row;
```



This is the default behavior. Grid fills rows from left to right, then creates new rows as needed. It feels familiar—but it's still Grid, not Flexbox.

COLUMN FLOW CHANGES EVERYTHING

```
grid-auto-flow: column;
```



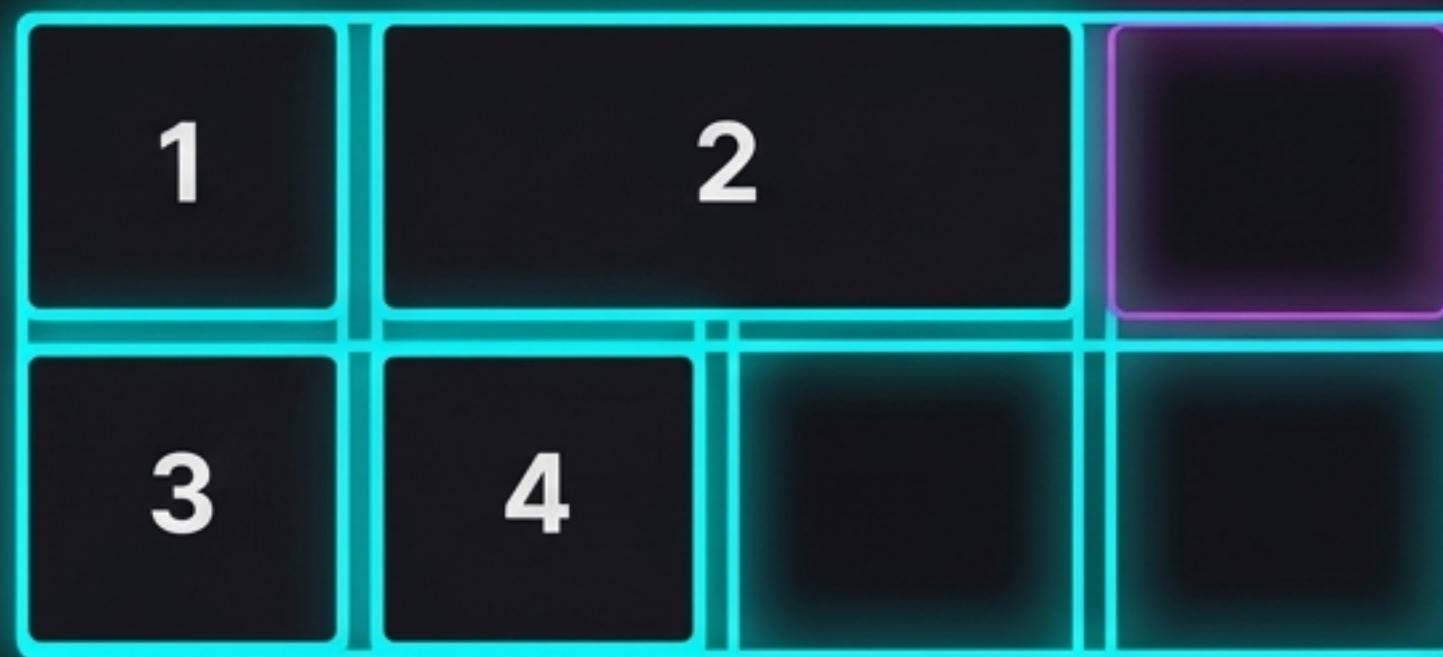
Now Grid fills each column from top to bottom, then creates new columns.

Same items. Same grid.
Very different outcome.

THE PACKING ALGORITHM: `dense`

grid-auto-flow: row dense;

Without `dense`

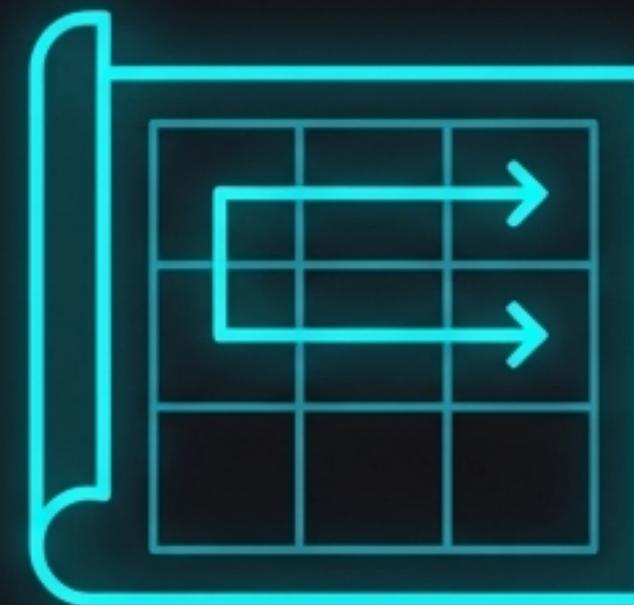


With `dense`

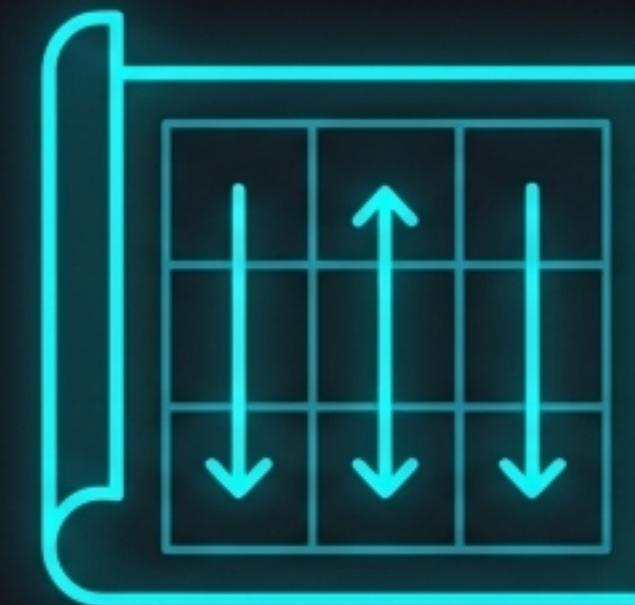


`dense` tells Grid to backfill gaps when possible. This can reduce empty space but may also make the layout order differ from the DOM order.

Auto-placement is predictable.



('row')



('column')



('dense')

Once you know the flow direction ('row' or 'column') and the packing algorithm ('dense'), you know exactly what Grid will do.

Control the flow—
or Grid will.



p.s., keep learning!