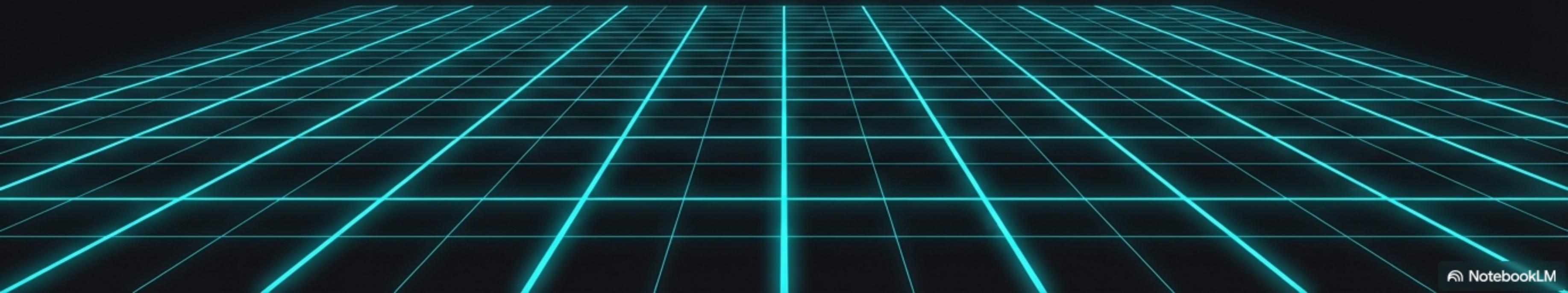


# AUTO-FLOW & PLACEMENT DIRECTION

How Grid Decides What Goes Where



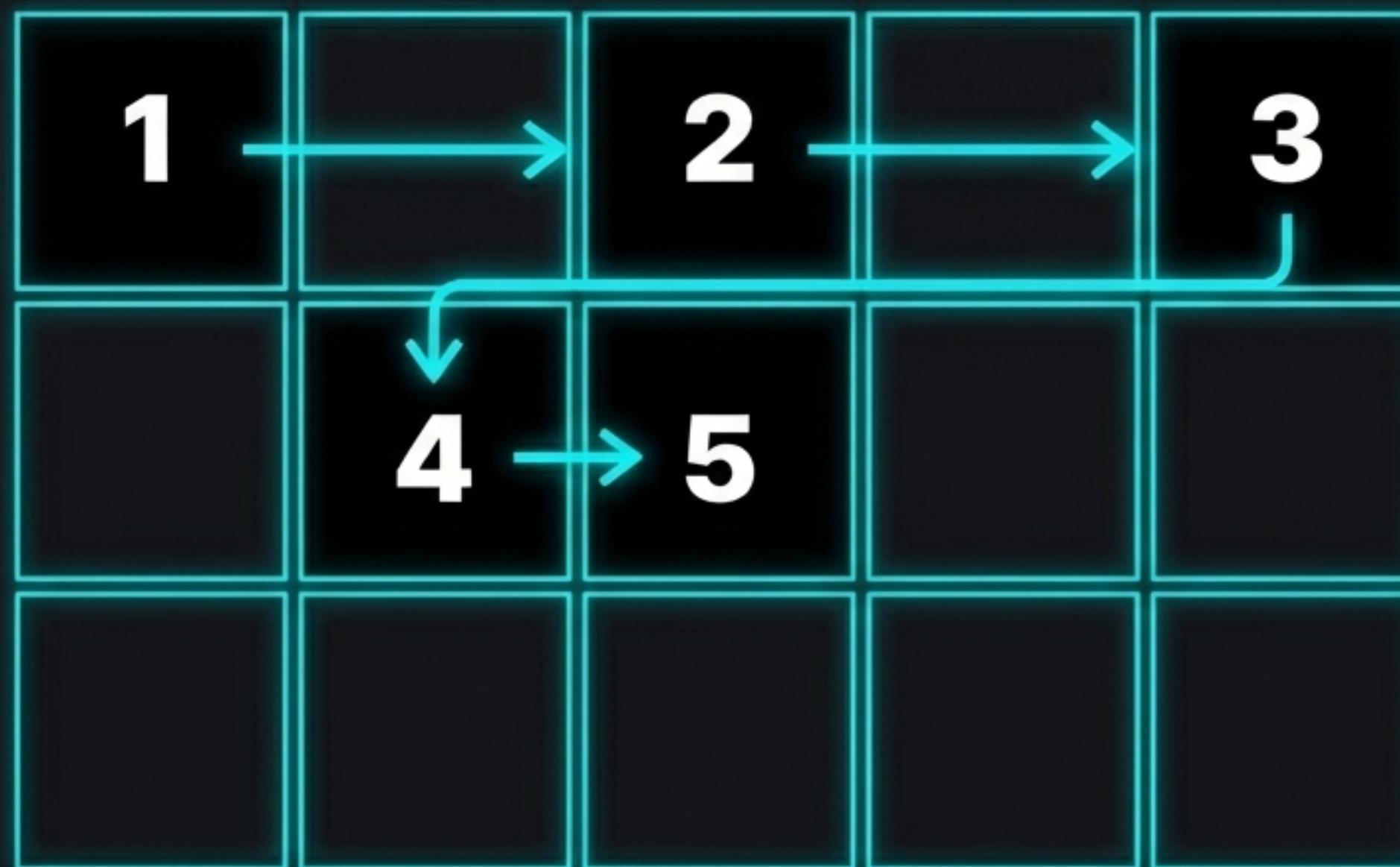
# Grid places items when you don't.



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

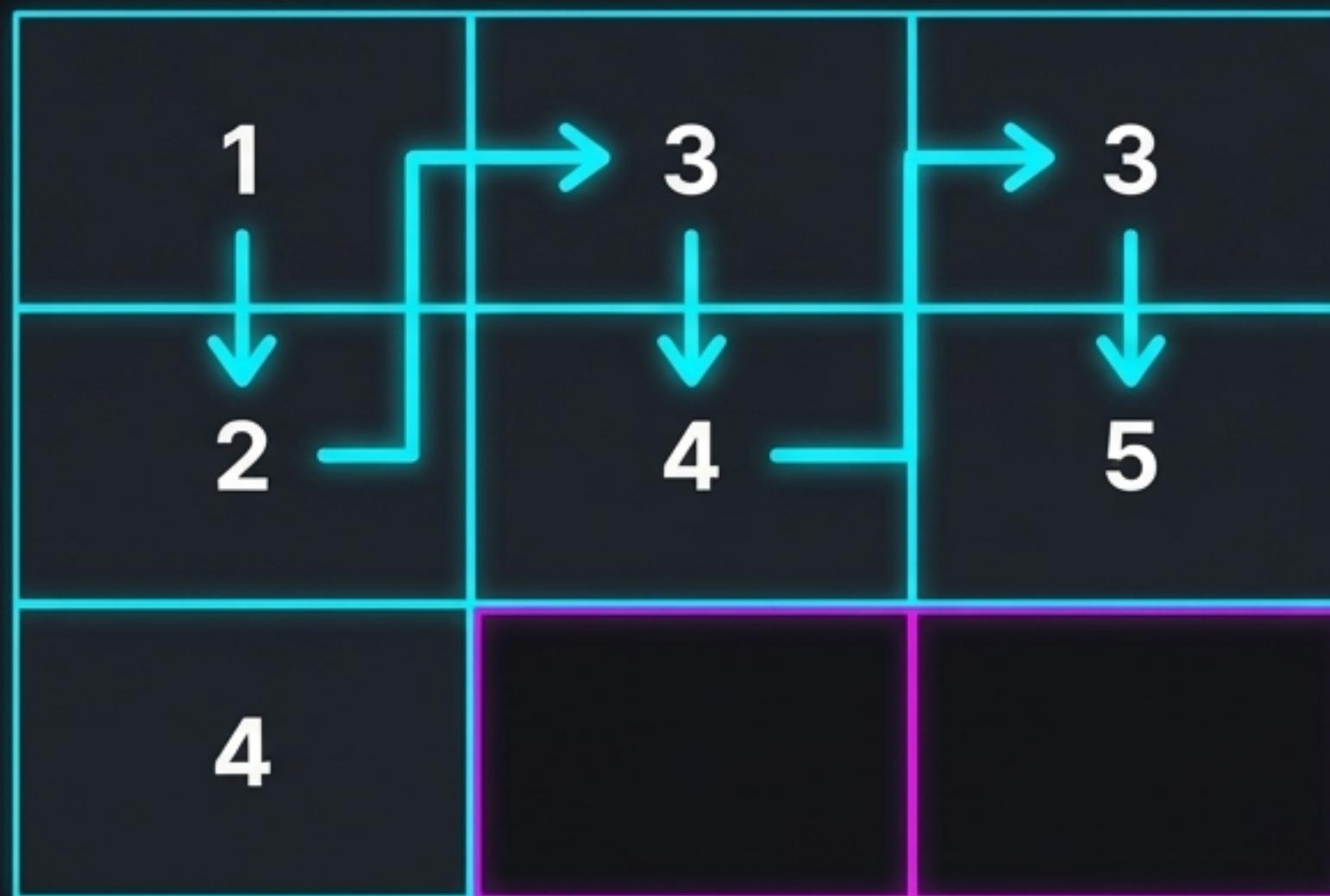
```
grid-auto-flow: row;
```



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`

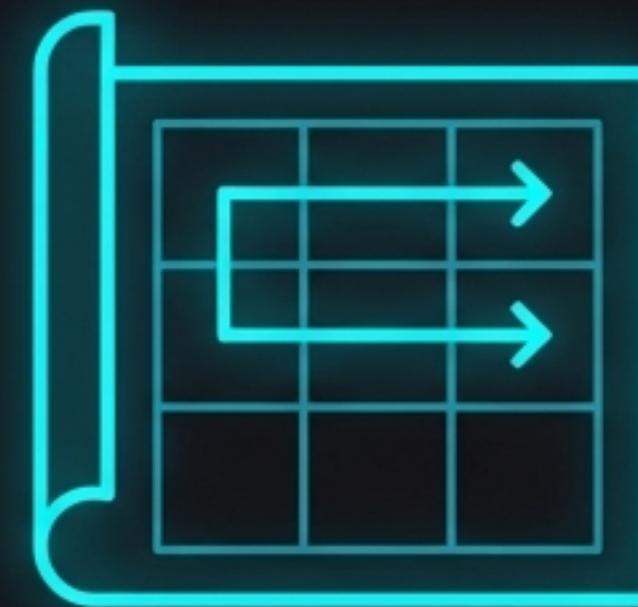


With `dense`

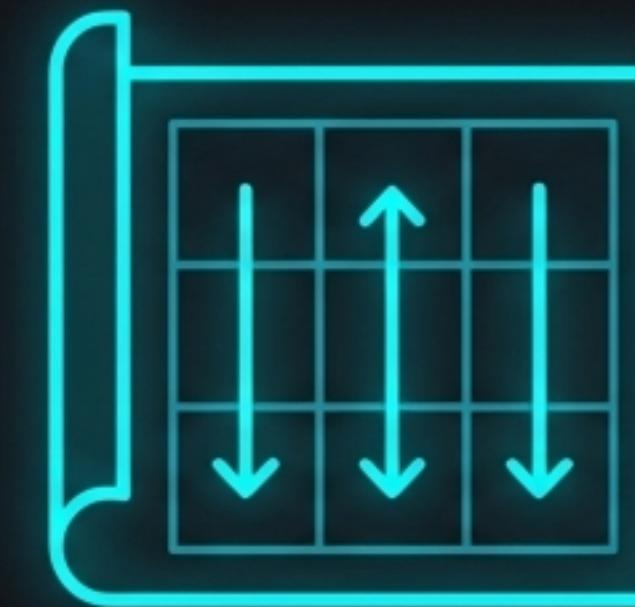


`dense` tells Grid to backfill gaps when possible. This can reduce empty space but may also make the layout order differ from the DOM order.

# 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!