



CSS GRID



CSS GRID

INTRODUCTION TO CSS GRID

WHAT IS CSS GRID

CSS GRID TERMINOLOGY

CSS GRID DESIGN GUIDANCE

CSS GRID VS. FLEXBOX

WHAT IS CSS GRID?

CSS GRID IS A TWO-DIMENSIONAL LAYOUT MODEL MAKING IT SIMPLE TO ARRANGE ITEMS IN ROWS AND COLUMNS

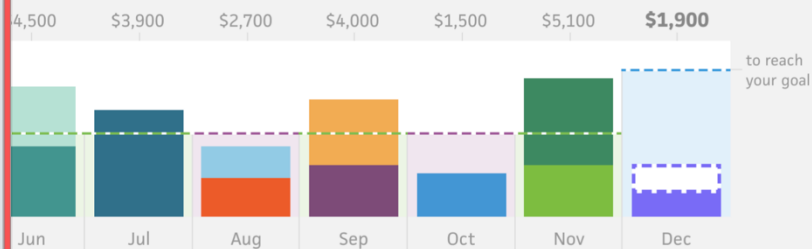
CSS GRID



Visualize your schedule

Cushion shows your year as a whole, so you can confidently plan months ahead and avoid taking on too much work at once.

- ✓ Schedule projects from a bird's eye view
- ✓ Easily see when you're available or overbooked
- ✓ Track delays and projects past their deadline



Forecast your income

Always know where you stand with invoices and potential income. Set goals to separate what you *need* to make from what you *want* to make.

- ✓ Track paid, invoiced, and estimated income
- ✓ Specify minimum, target, and stretch goals
- ✓ Support for 100+ currencies with automatic currency conversion

CSS GRID TERMINOLOGY

CSS GRID HAS TWO MAIN COMPONENTS

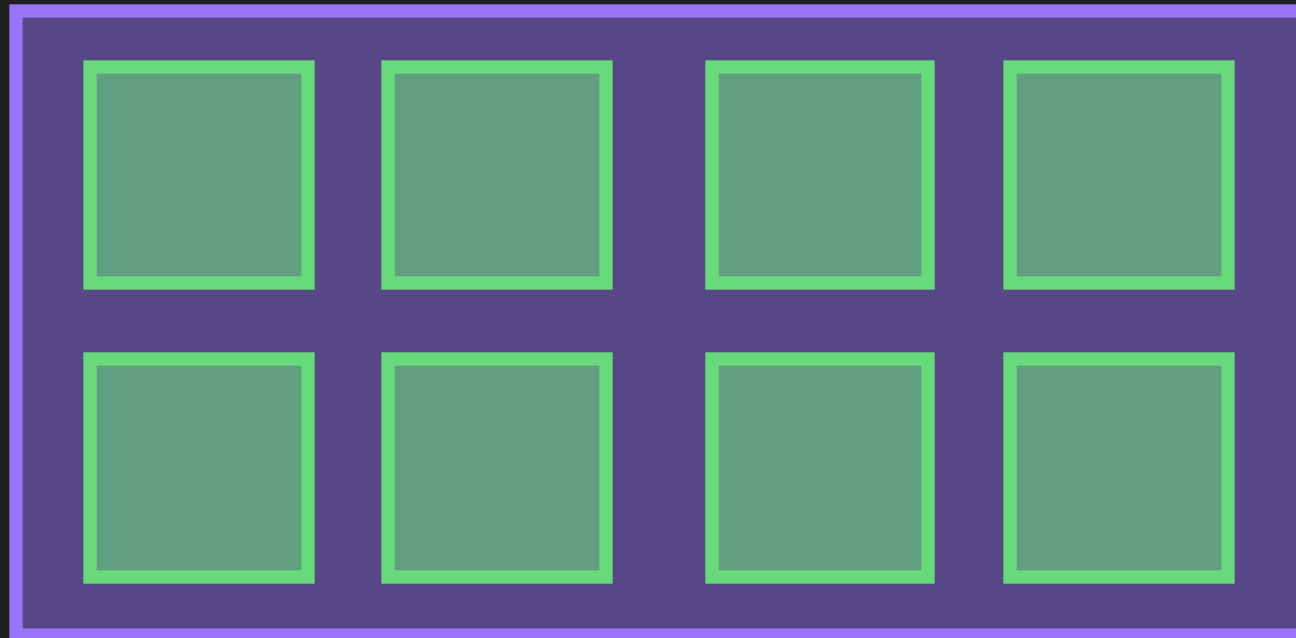


CSS GRID TERMINOLOGY

CSS GRID HAS TWO AXIS

CAN'T CHANGE
DIRECTION OF THE AXIS

COLUMN
AXIS



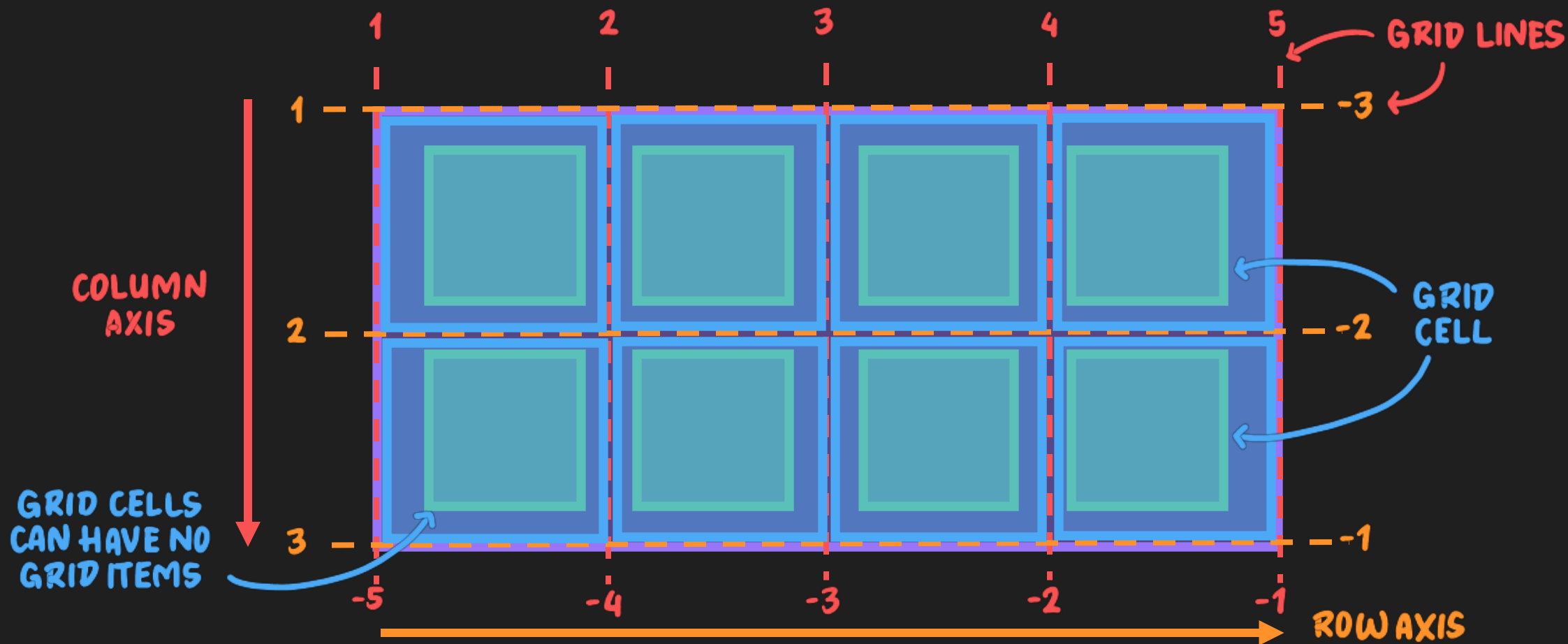
ROW AXIS





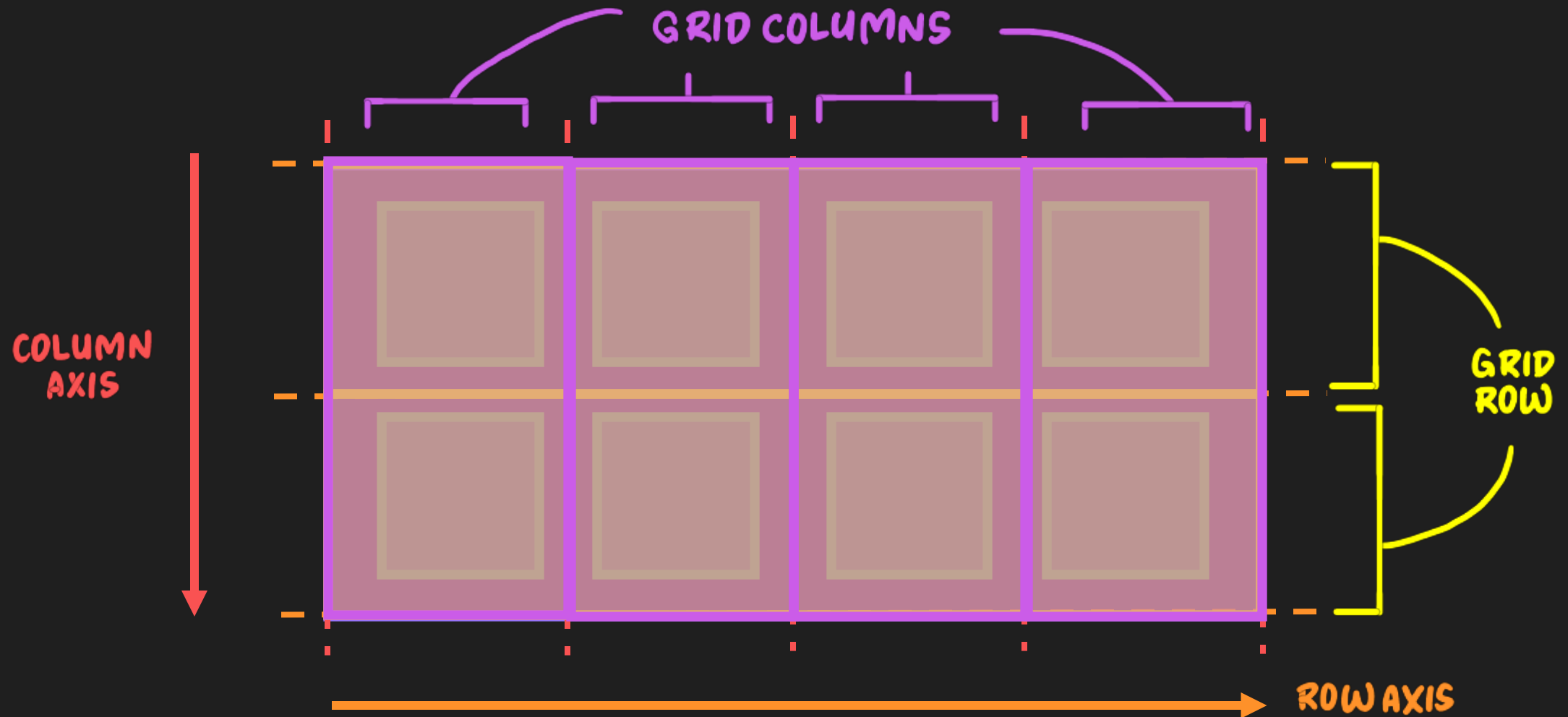
CSS GRID TERMINOLOGY

THE GRID IS DIVIDED INTO GRID CELLS BY GRID LINES



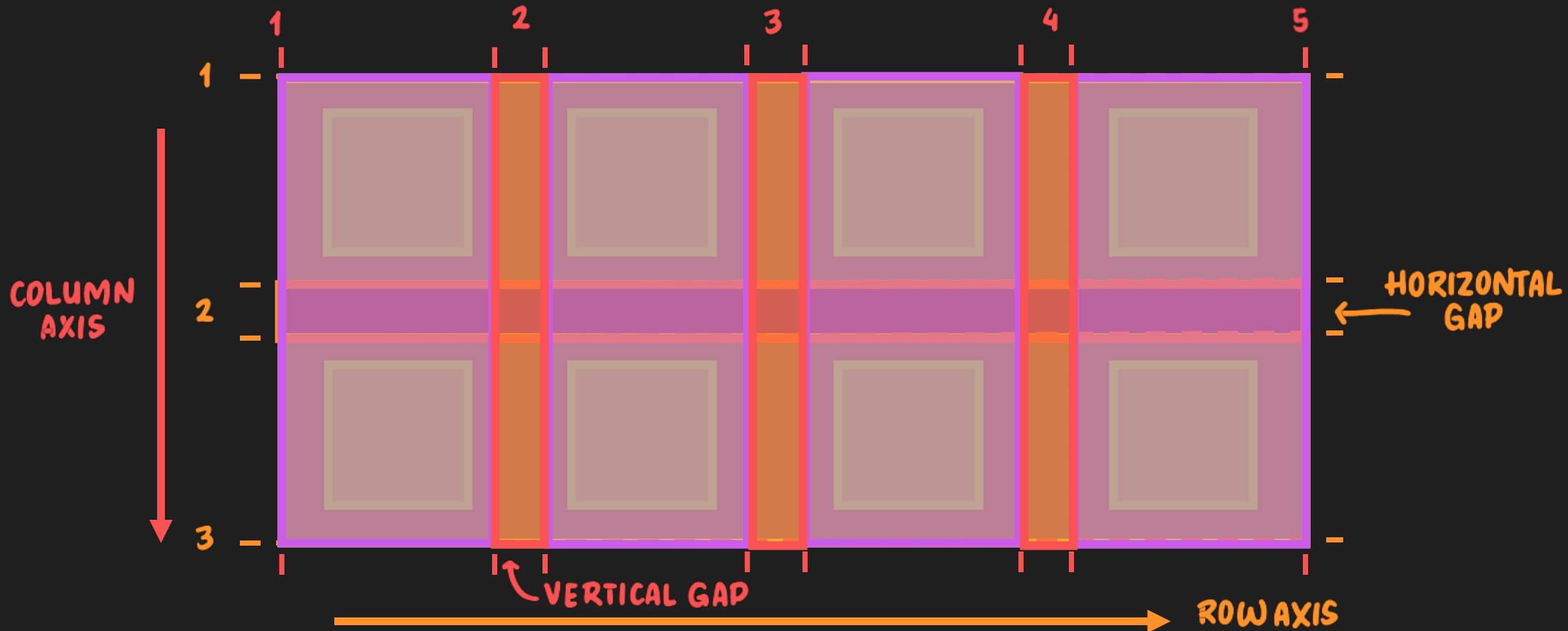
CSS GRID TERMINOLOGY

GRID LINES DEFINE GRID TRACKS ROWS & COLUMNS



CSS GRID TERMINOLOGY

GRID ROWS AND COLUMNS CAN HAVE SPACING BETWEEN THEM





DISPLAY GRID

THE DISPLAY PROPERTY ON A CONTAINER ELEMENT WILL
ACTIVATE GRID LAYOUT FEATURES ON CHILDREN ELEMENTS

DECLARED ON
GRID CONTAINER
(PARENT)



`display: grid;`

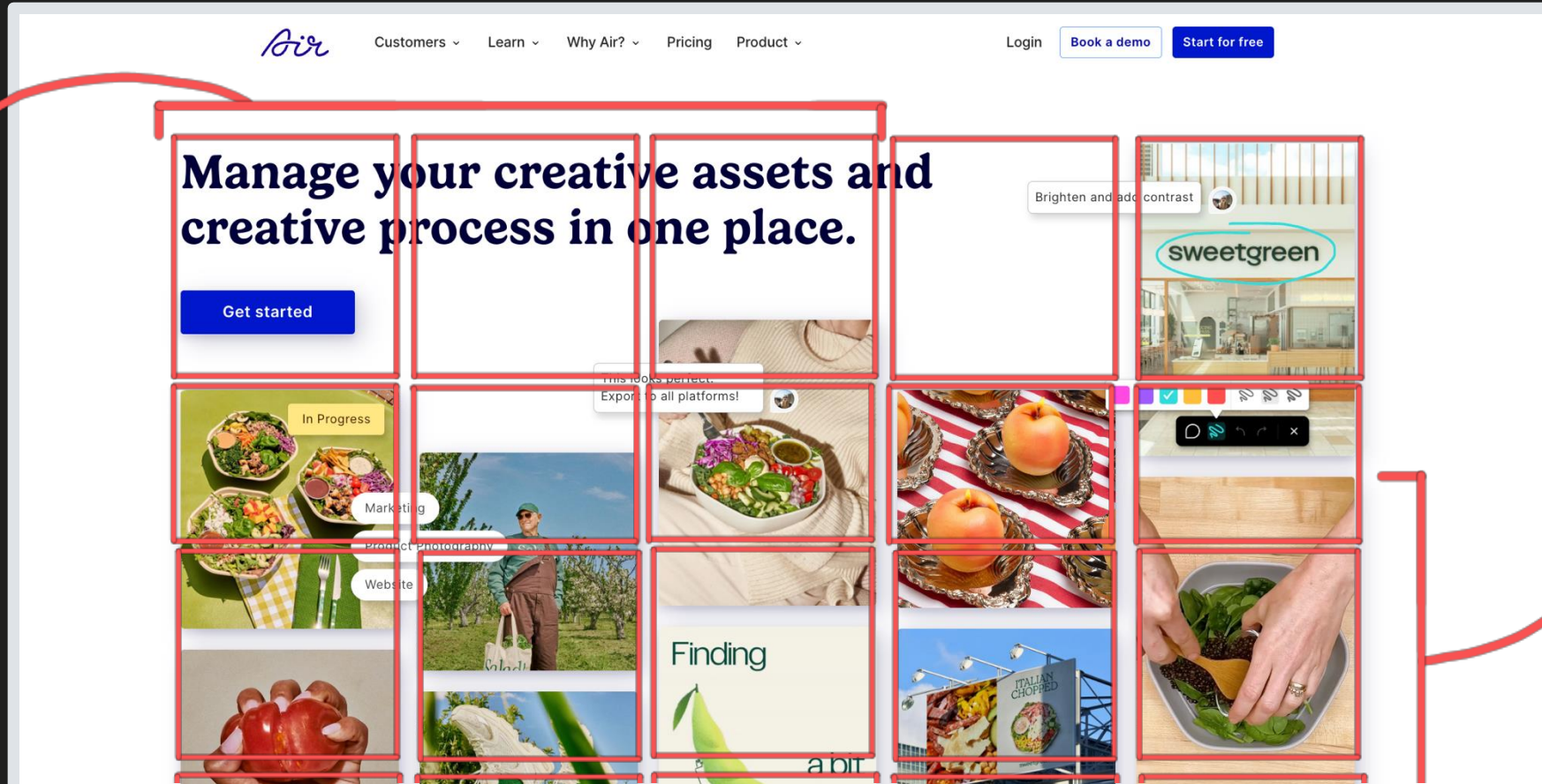
VALUES

`block inline inline-block flex grid`

CSS GRID GUIDANCE

CSS GRID CAN BE USED FOR COMPLEX TWO-DIMENSIONAL LAYOUTS

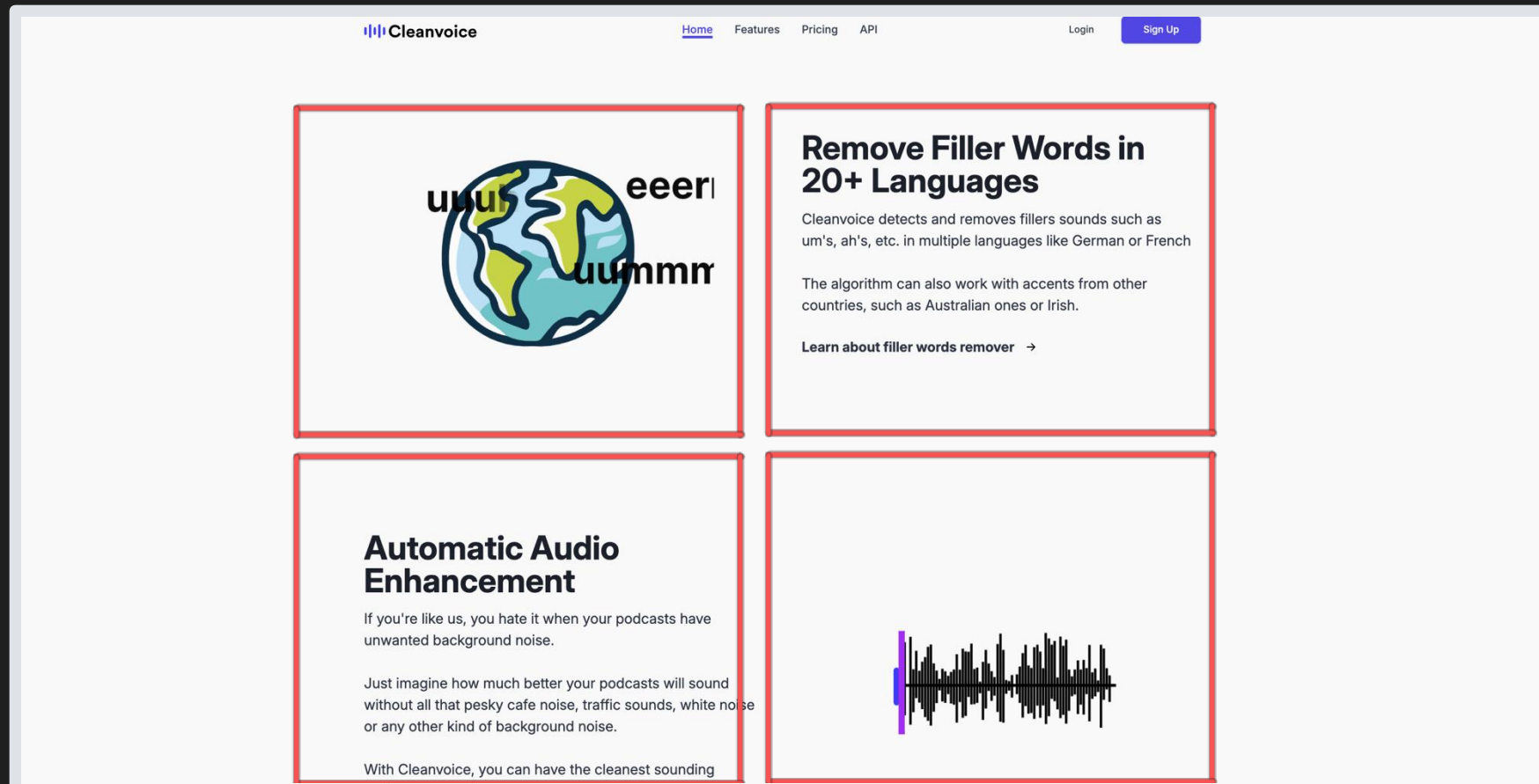
TEXT SPANNING
GRID CELLS



IMAGES
SPANNING
CELLS

CSS GRID GUIDANCE

GRID IS ALSO COMMONLY USED FOR MAJOR SECTIONS

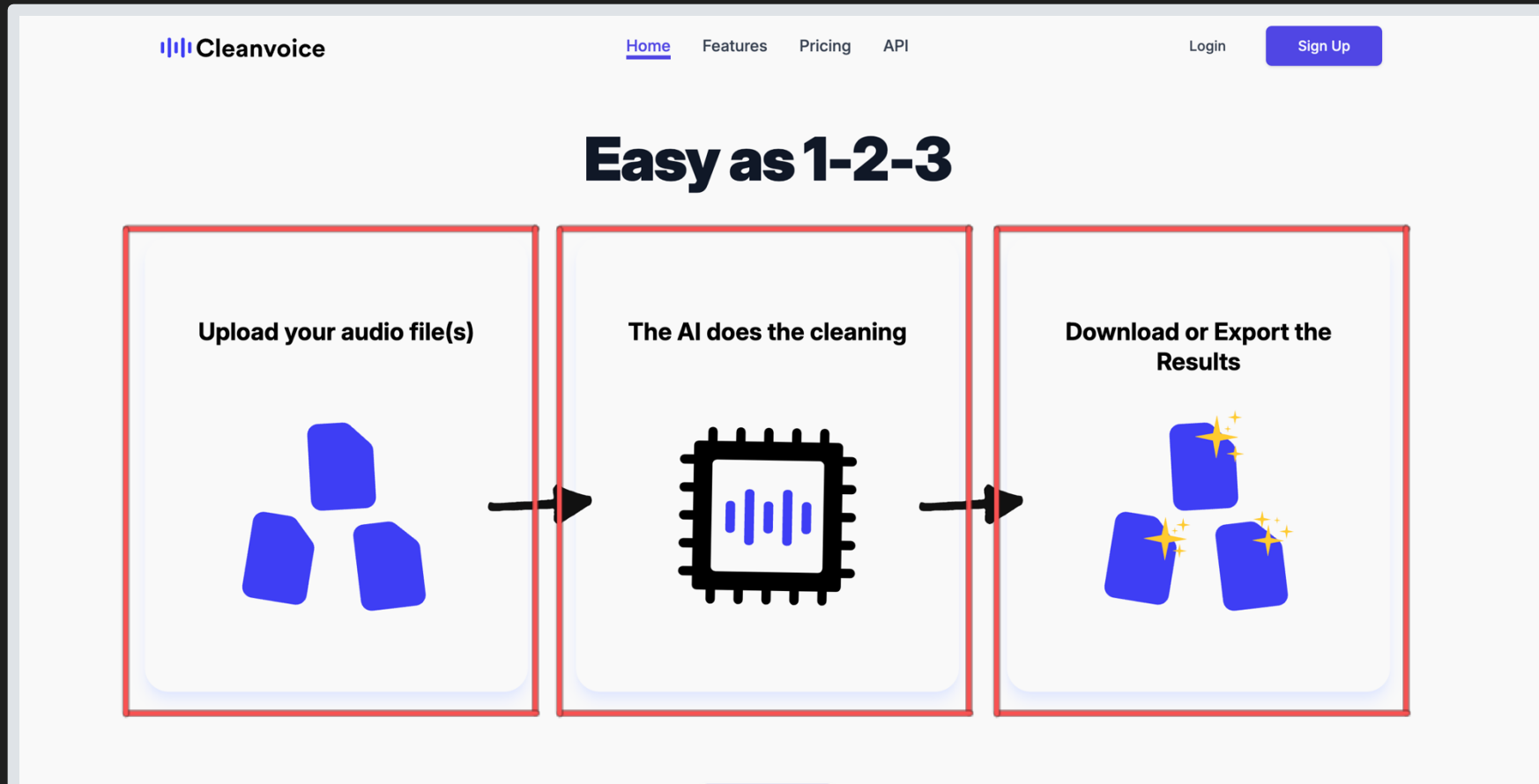




CSS GRID GUIDANCE

COULD ALSO
USE FLEXBOX

GRID IS ALSO COMMONLY USED FOR UI ELEMENTS WITH
CONSISTENT SPACING IN A ONE-DIMENSIONAL ROW OR COLUMN





CSS GRID VS. FLEXBOX

SMALLER UI

→ FLEXBOX

display: flex;

ONE-DIMENSIONAL
(ROW OR COLUMN)

NAVIGATION BARS

FOOTERS

COMPONENTS

HERO SECTIONS

FORMS

BUTTONS

CALLOUTS

INSIDE CARDS

LARGER UI

→ GRID

display: grid;

TWO-DIMENSIONAL
(ROW AND COLUMN)

COMPLEX 2D LAYOUTS

FEATURES

CARDS



CSS GRID

GRID COLUMNS & ROWS

GRID TEMPLATE COLUMNS & ROWS

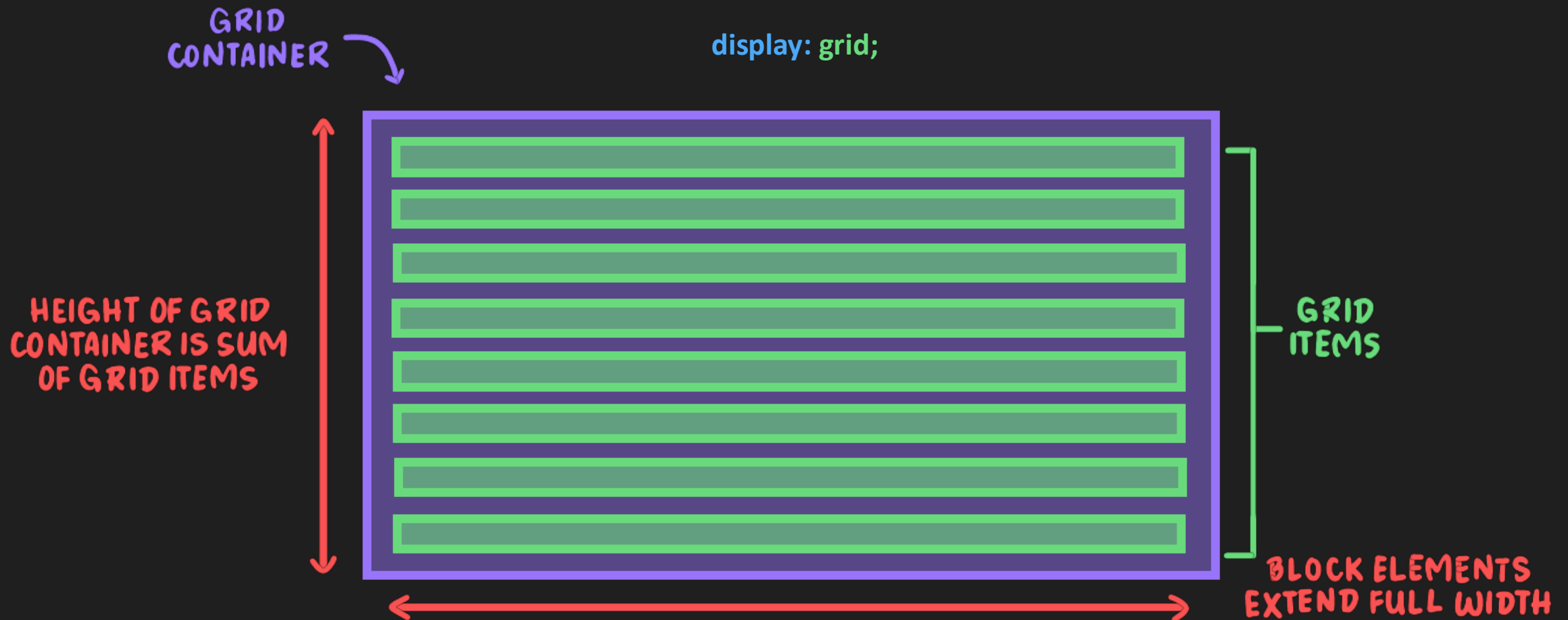
FRACTIONAL UNIT

REPEATFUNCTION

GRID COLUMN & ROW DESIGN GUIDANCE

GRID COLUMNS & ROWS

GRID ITEMS WILL APPEAR IN A SINGLE COLUMN BY DEFAULT



GRID TEMPLATE COLUMNS

SETS THE NUMBER OF COLUMNS AND WIDTH OF EACH

COLUMN 1 COLUMN 2
↓ ↓
grid-template-columns: 100px 200px;
 ↖ ↗
 WIDTH

GRID TEMPLATE ROWS

SETS THE NUMBER OF ROWS AND HEIGHT OF EACH

Diagram illustrating the mapping of `grid-template-rows` to row heights:

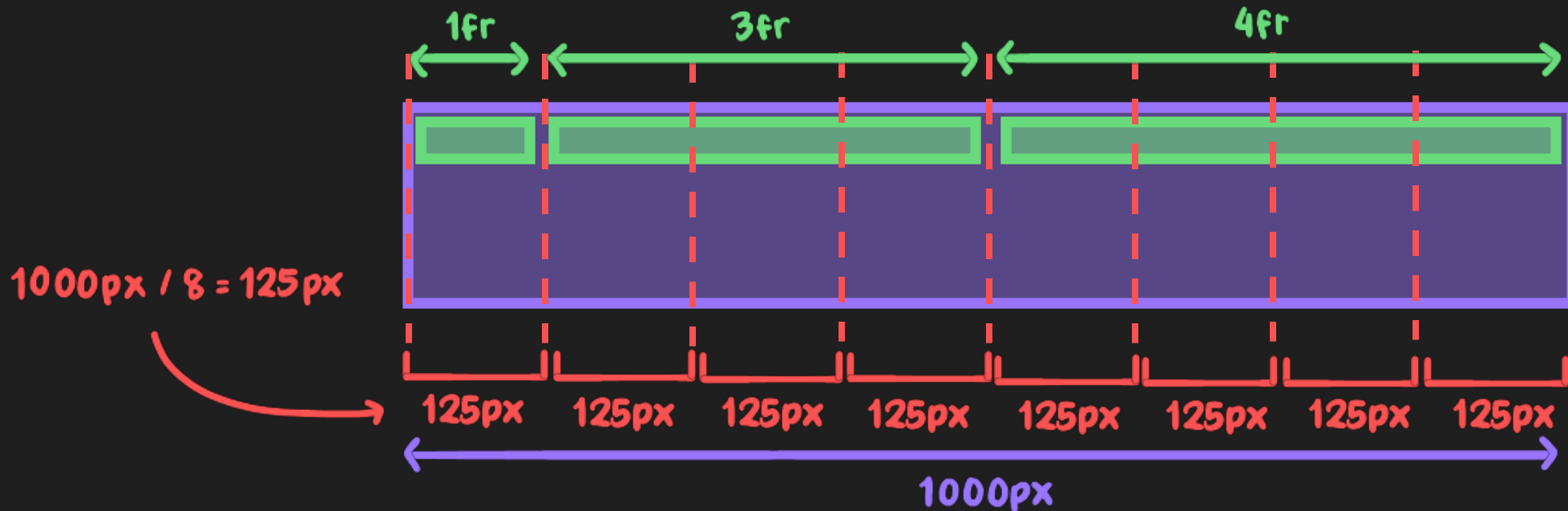
- The CSS code `grid-template-rows: 50px 100px 200px 300px;` is shown in green.
- Red arrows point from the values `50px`, `100px`, `200px`, and `300px` to the corresponding rows of a grid.
- The rows are labeled `ROW 1`, `ROW 2`, `ROW 3`, and `ROW 4` in red.
- A red bracket labeled `HEIGHT` spans the four rows, indicating the total height of the grid template.

FRACTIONAL UNIT ← VERY COMMONLY USED IN CSS GRID

THE FRACTION OF AVAILABLE SPACE IN THE GRID CONTAINER

grid-template-columns: 1fr 3fr 4fr;

TOTAL FRACTIONS = 1 + 3 + 4 = 8



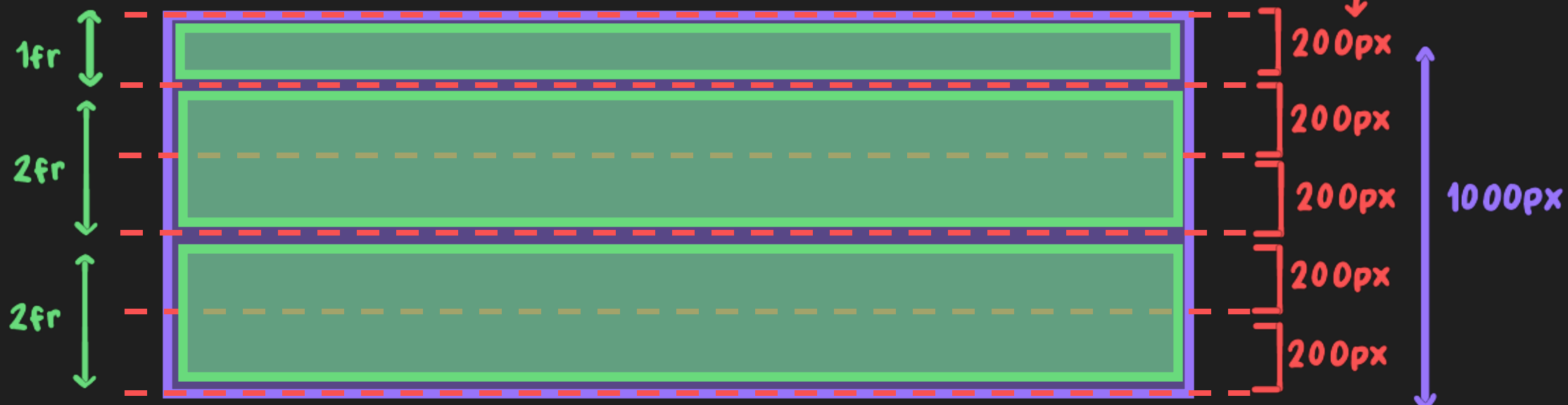
FRACTIONAL UNIT AND ROWS

IF HEIGHT IS SET ON A GRID CONTAINER, FR UNITS PROPORTIONALLY DISTRIBUTE SPACE TO THE GRID ITEMS

grid-template-rows: 1fr 2fr 2fr;

TOTAL FRACTIONS = $1 + 2 + 2 = 5$

$1000\text{px} / 5 = 200\text{px}$





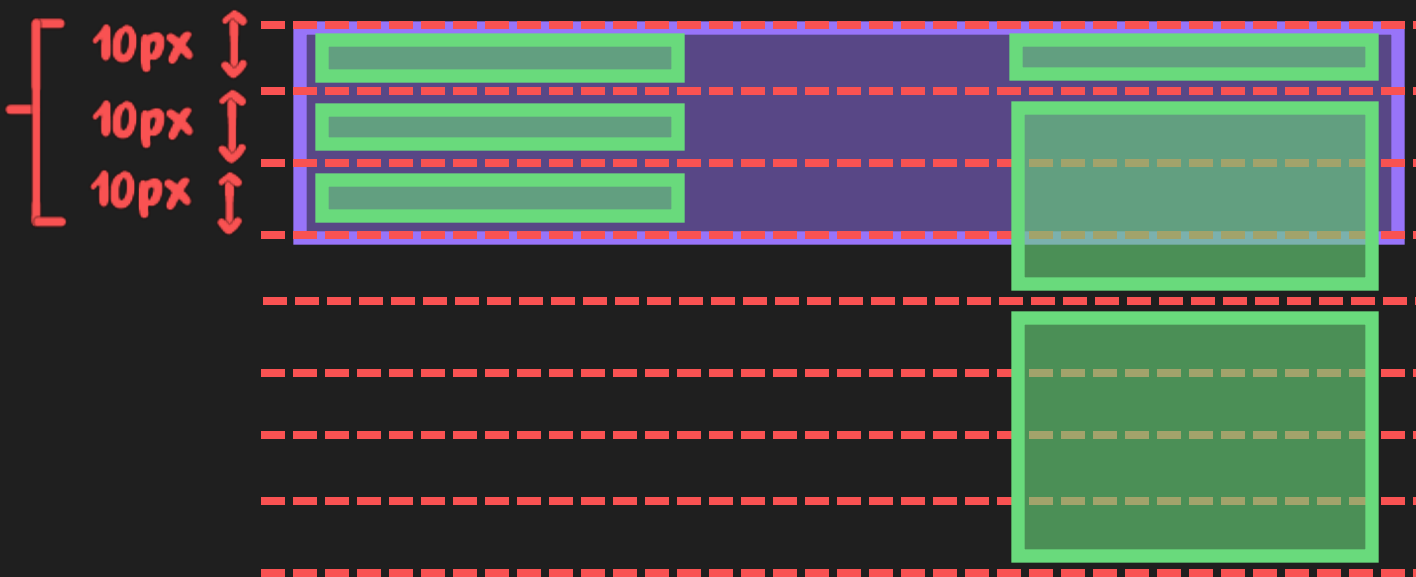
FRACTIONAL UNIT AND ROWS

UNEXPECTED

IF NO HEIGHT IS SET ON A GRID CONTAINER, FR UNITS USE THE HEIGHT OF THE GRID ITEMS TO SET HEIGHT & SPACE ON THE GRID CONTAINER

grid-template-rows: 1fr 3fr 4fr;

NO HEIGHT SET
ON GRID
CONTAINER,
HEIGHT IS SUM
OF CONTENT



GRID CONTAINER
SCALES BASED
ON GRID ITEMS

80px

TOTAL FRACTIONS = 1 + 3 + 4 = 8

TOTAL HEIGHT = (10px x 1) + (10px x 3) + (10px x 4) = 80px



REPEAT FUNCTION

USED TO REPEAT ROWS OR COLUMN DIMENSIONS
WHEN THEY ARE RECURRING

NUMBER OF
COL OR ROWS

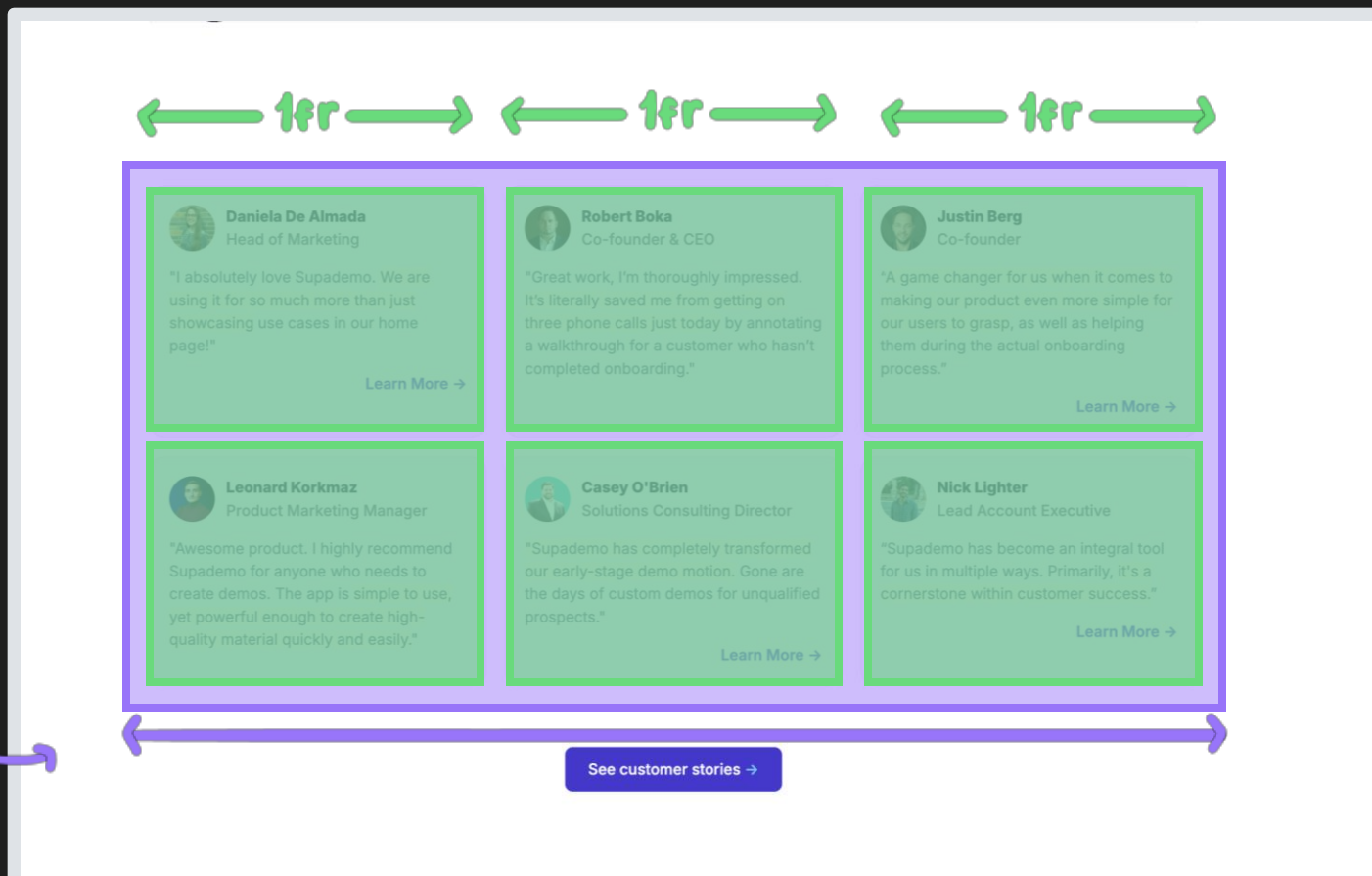
SIZE
VALUE

grid-template-columns: repeat(4, 1fr)

COLUMN AND ROW GUIDANCE

COLUMNS ARE OFTEN SET WITH FR UNITS AND THE WIDTH OF GRID CONTAINER IS USUALLY NOT SET BUT EXTENDS WIDTH OF THE PAGE

GRID CONTAINER
WIDTH EXTENDS
FULL WIDTH OF PAGE



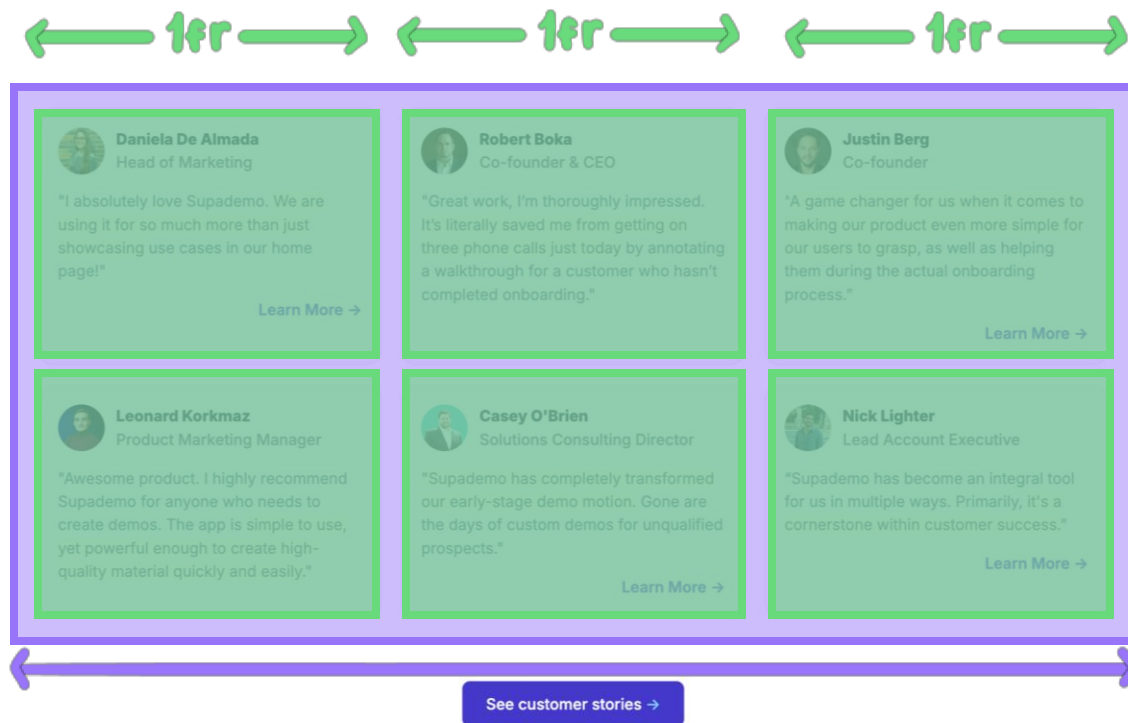


COLUMN AND ROW GUIDANCE

THE NUMBER OF ROWS ARE NOT USUALLY SET BUT ARE AUTOMATICALLY DEFINED BY THE NUMBER OF GRID ITEMS

3 COLUMNS
WITH 6 GRID ITEMS
AUTOMATICALLY
CREATES 2 x 3 GRID

GRID CONTAINER
WIDTH EXTENDS
FULL WIDTH OF PAGE



COLUMN AND ROW GUIDANCE

THE HEIGHT OF THE GRID CONTAINER IS NOT USUALLY SET BUT DEFINED BY THE SUM OF THE HEIGHT OF THE GRID ITEMS

3 COLUMNS
WITH 6 GRID ITEMS
AUTOMATICALLY
CREATES 2 x 3 GRID

GRID CONTAINER
WIDTH EXTENDS
FULL WIDTH OF PAGE



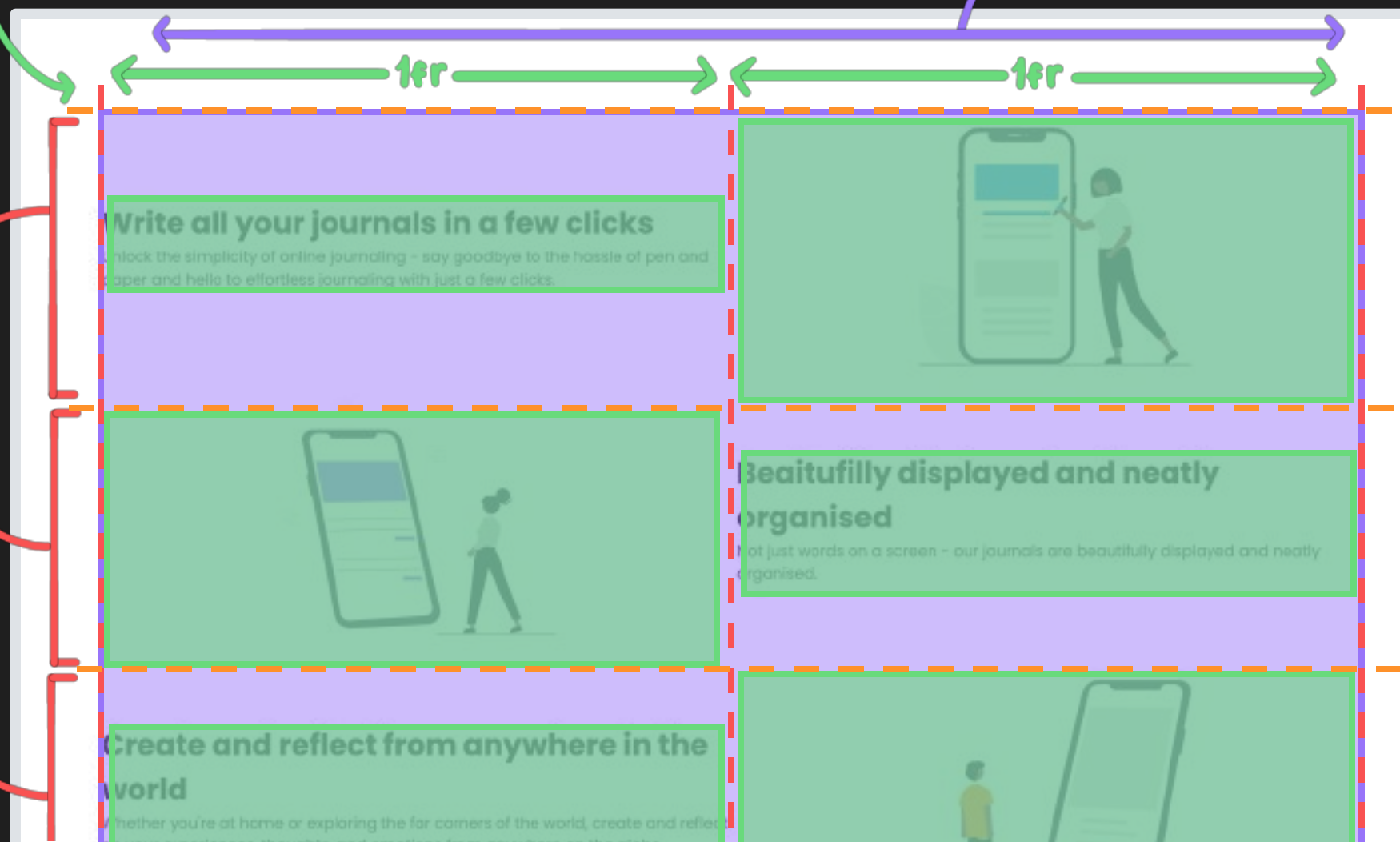
HEIGHT OF GRID
CONTAINER IS SUM OF
HEIGHT OF THE CONTENT
IN THE GRID ITEMS

QUILL HOMEPAGE

2 COLUMNS WITH 6 GRID ITEMS
AUTOMATICALLY CREATES 3 X 2 GRID

GRID CONTAINER WIDTH
EXTENDS FULL WIDTH OF PAGE

HEIGHT OF GRID
CONTAINER SET
BY HEIGHT
OF IMAGES





CSS GRID

GRID GAP

DEFAULT SPACING BETWEEN GRID ITEMS

GAP PROPERTY

GAP DESIGN GUIDANCE



DEFAULT SPACING BETWEEN GRID ITEM

BY DEFAULT, GRID ITEMS ARE PLACED NEXT TO EACH OTHER WITH NO SPACING BETWEEN THEM

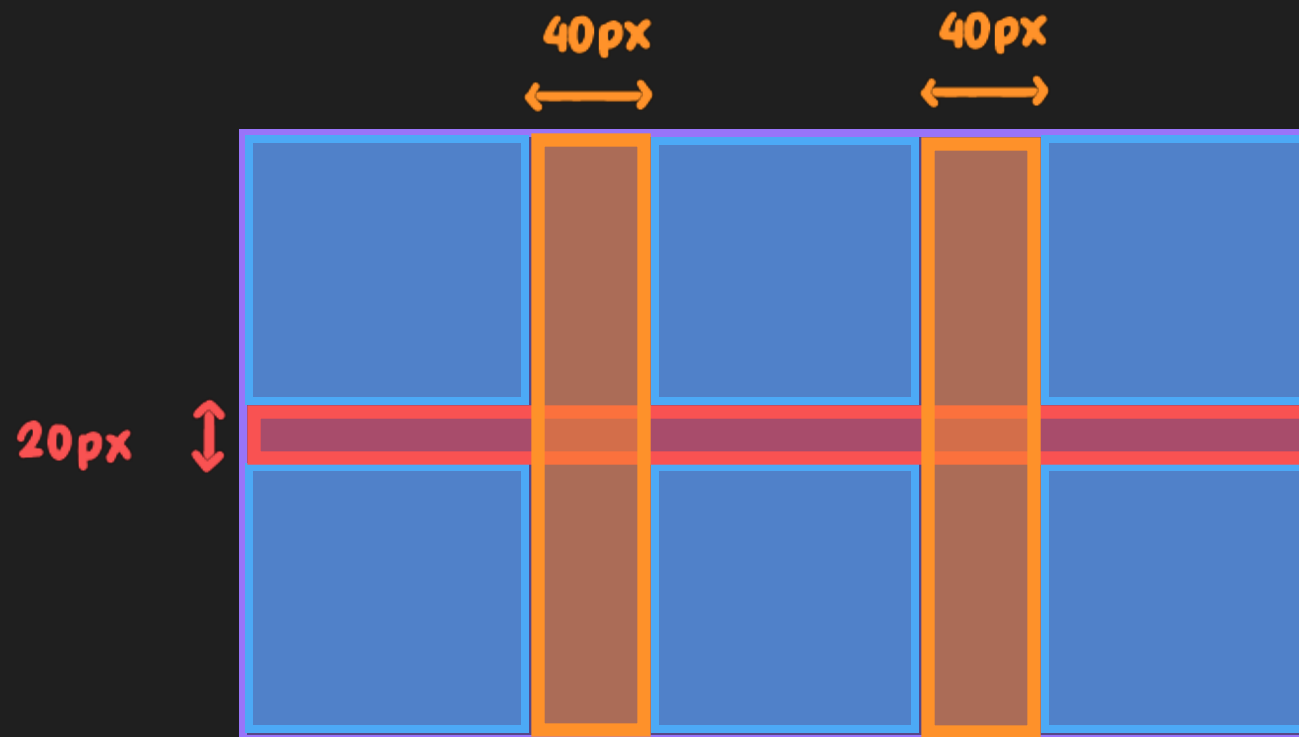


GAP PROPERTY

THE GAP PROPERTY CREATES SPACE BETWEEN GRID ROWS AND COLUMNS

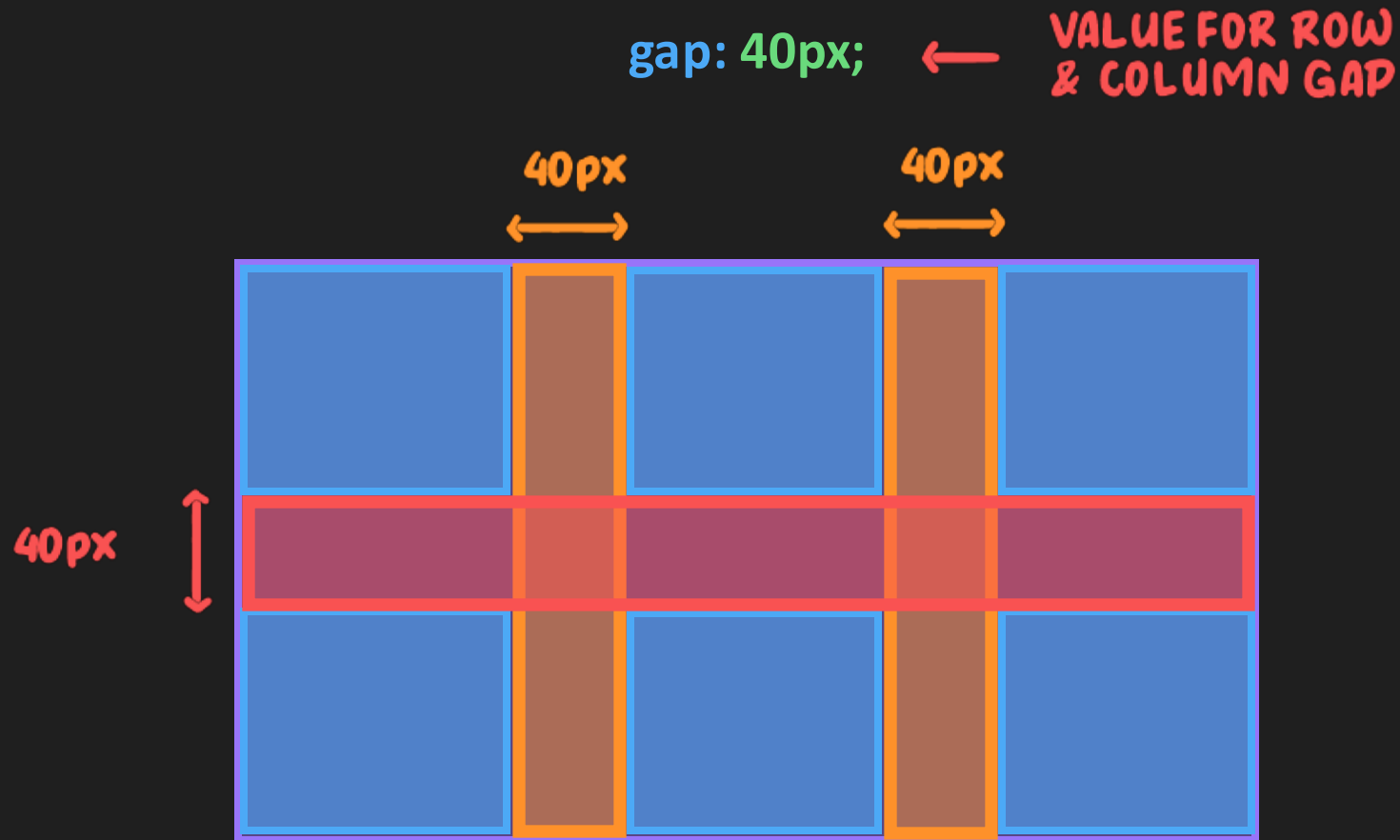
row-gap: 20px;

column-gap: 40px;



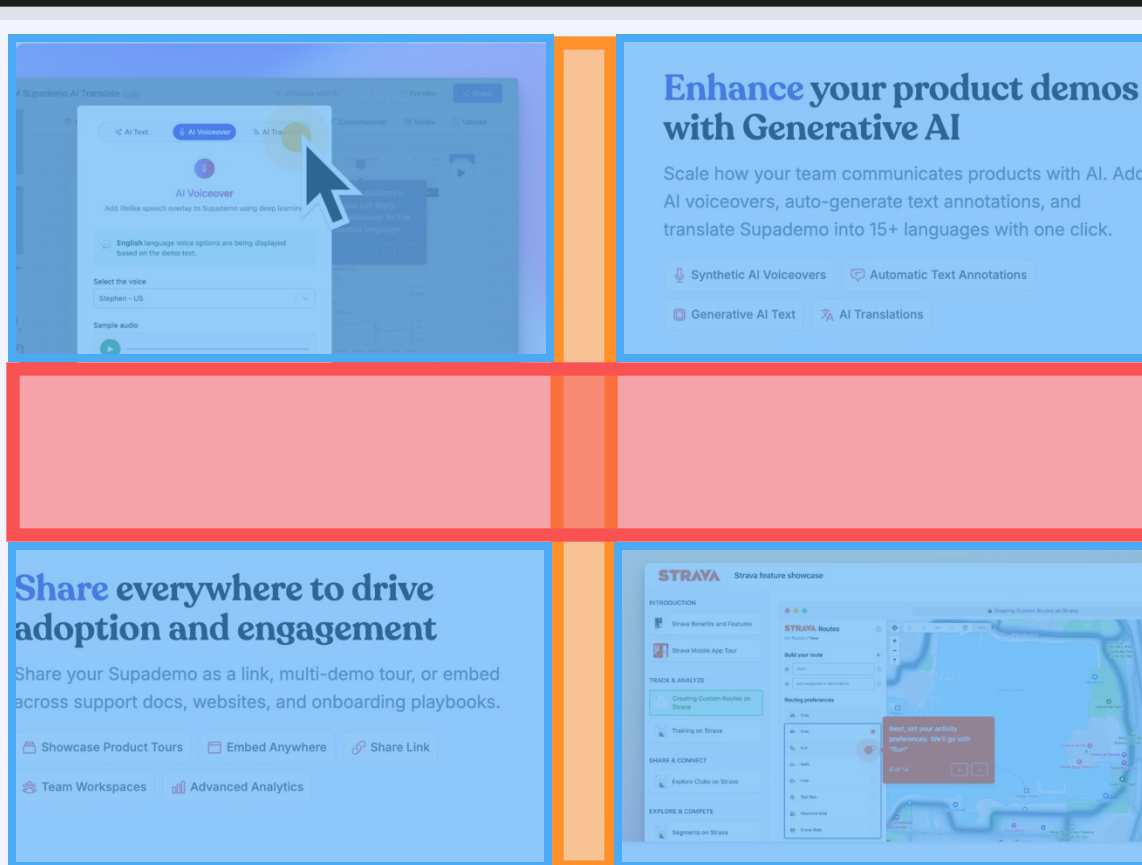
GAP PROPERTY

THE GAP PROPERTY CREATES SPACE BETWEEN GRID ROWS AND COLUMNS



GAP GUIDANCE

COMMONLY USED TO SPACE GRID ITEMS IN MAJOR SECTIONS



GAP GUIDANCE

COMMONLY USED FOR SPACING IN CARD LAYOUTS
SUCH AS TESTIMONIALS AND FEATURES

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QUILL HOMEPAGE

COLUMN GAP

ROW GAP

Write all your journals in a few clicks

Unlock the simplicity of online journaling – say goodbye to the hassle of pen and paper and hello to effortless journaling with just a few clicks.



Beaitufilly displayed and neatly organised

Not just words on a screen – our journals are beautifully displayed and neatly organised.

Create and reflect from anywhere in the world

Whether you're at home or exploring the far corners of the world, create and reflect on your experiences, thoughts, and emotions from anywhere on the globe.



15 / 5



CSS GRID

GRID ALIGNMENT

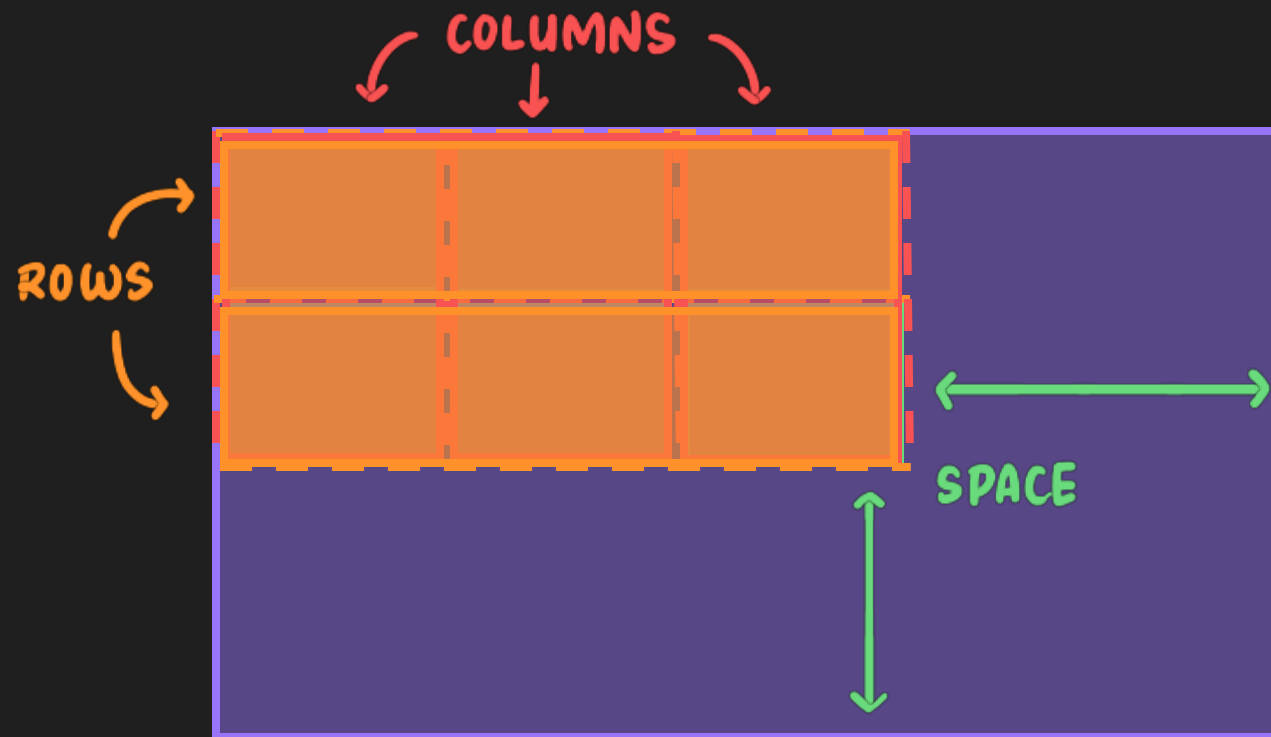
JUSTIFY CONTENT

ALIGN CONTENT

ITEMS VS. CONTENT

GRID ALIGNMENT

ENTIRE GRID TRACKS CAN BE ALIGNED AND DISTRIBUTED WHEN THERE IS EXTRA SPACE IN THE GRID CONTAINER

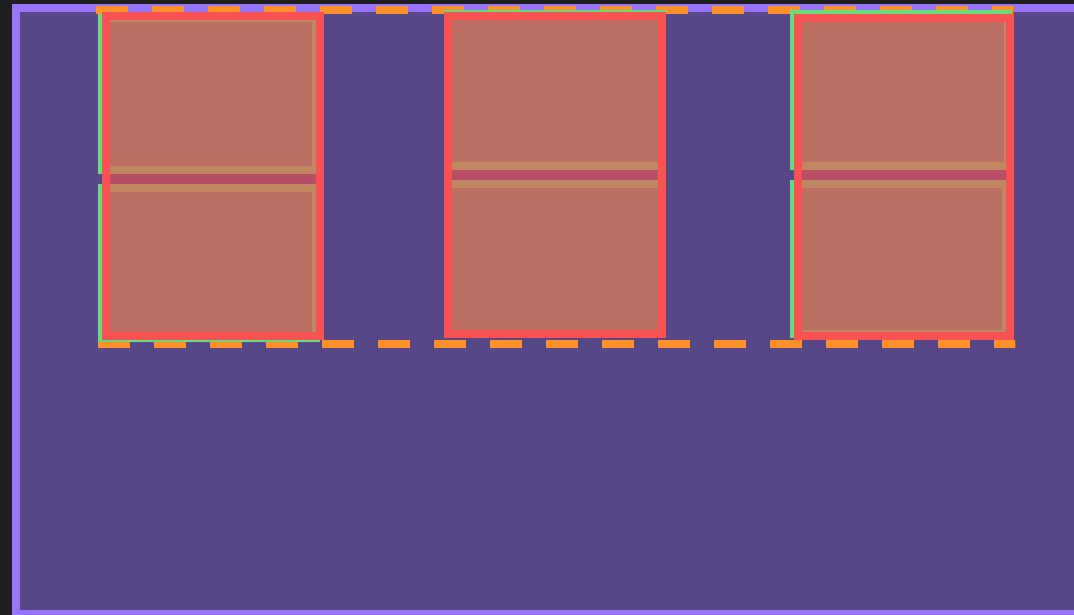




JUSTIFY CONTENT ← SAME AS FLEXBOX

ALIGNS ENTIRE GRID COLUMNS ALONG THE ROW AXIS

```
justify-content: space-evenly;
```

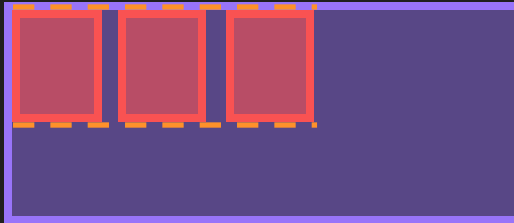


→ ROW AXIS

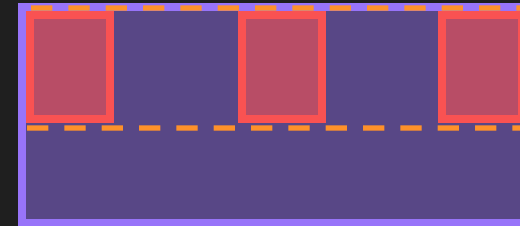
JUSTIFY CONTENT VALUES

← DEFAULT

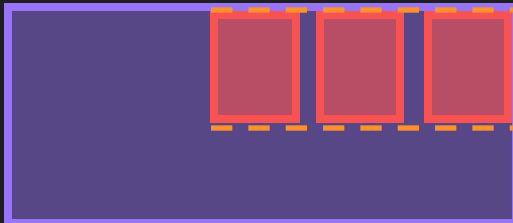
`justify-content: start;`



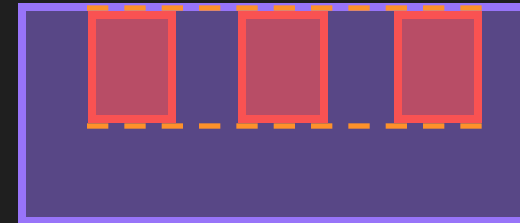
`justify-content: space-between;`



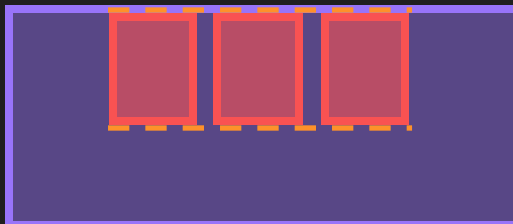
`justify-content: end;`



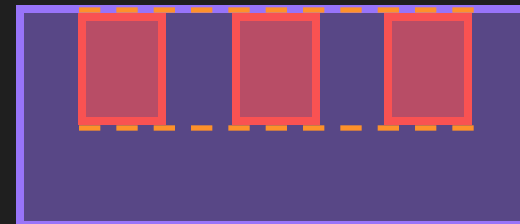
`justify-content: space-around;`



`justify-content: center;`



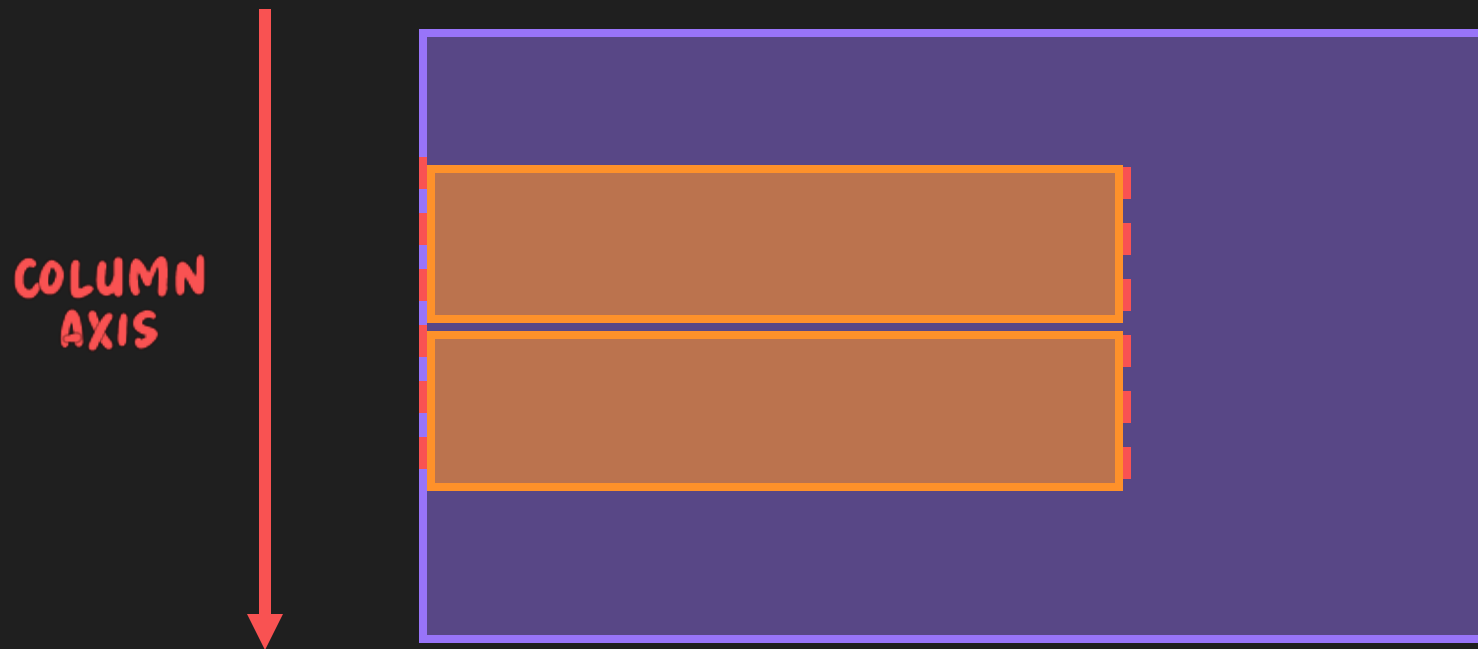
`justify-content: space-evenly;`



ALIGN CONTENT ← SAME AS FLEXBOX

ALIGNS ENTIRE GRID ROWS ALONG THE COLUMN AXIS

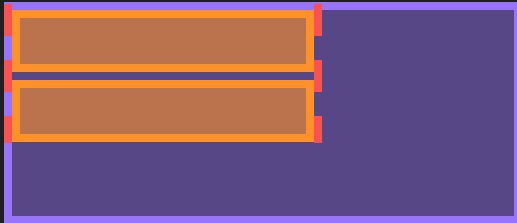
`align-content: center;`



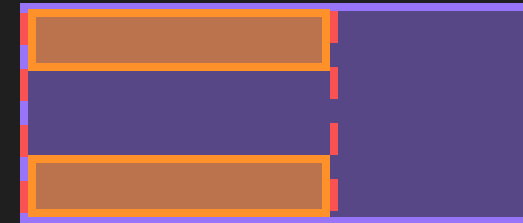
ALIGN CONTENT VALUES

← DEFAULT

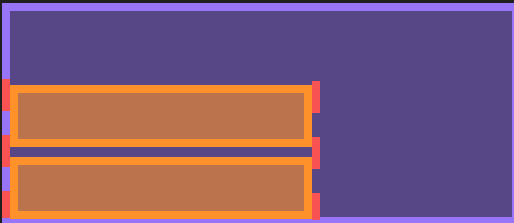
`align-content: start;`



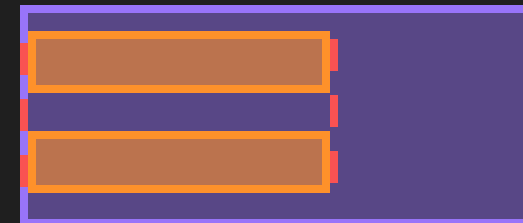
`align-content: space-between;`



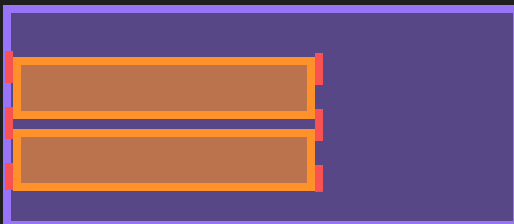
`align-content: end;`



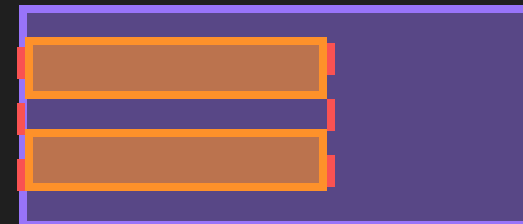
`align-content: space-around;`



`align-content: center;`



`align-content: space-evenly;`





ITEMS VS. CONTENT

MORE COMMON

FLEXBOX

JUSTIFY/ITEMS

ALIGN ITEMS

ALIGNS GRID ITEMS WHEN GRID CELLS HAVE EXTRA SPACE

ROW AXIS

COLUMN

justify-items

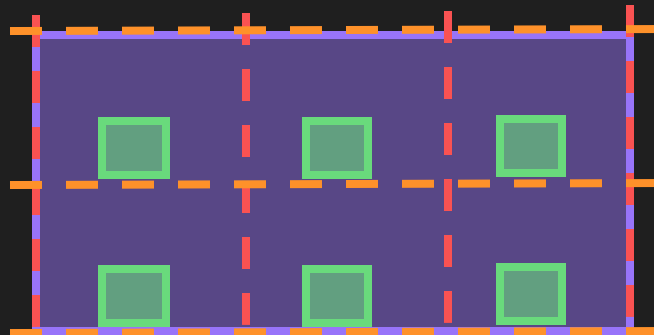
align-items

start

end

center

stretch



justify-items: center;

align-items: end;

JUSTIFY CONTENT

ALIGN CONTENT

ALIGNS GRID TRACKS WHEN THE GRID ITSELF HAS EXTRA SPACE

ROW AXIS

COLUMN

justify-content

align-content

start

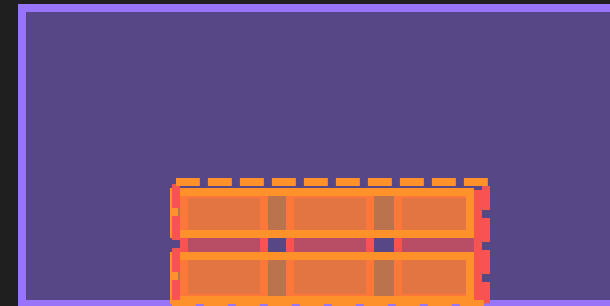
end

center

space-around

space-evenly

space-between



justify-content: center;

align-content: end;



CSS GRID

GRID ITEMS

PLACING GRID ITEMS

SPANNING GRID CELLS

ALIGNING GRID ITEMS

PLACING GRID ITEMS

GRID ITEMS ARE AUTOMATICALLY PLACED IN A GRID
BASED ON THE ORDER THEY APPEAR IN THE HTML

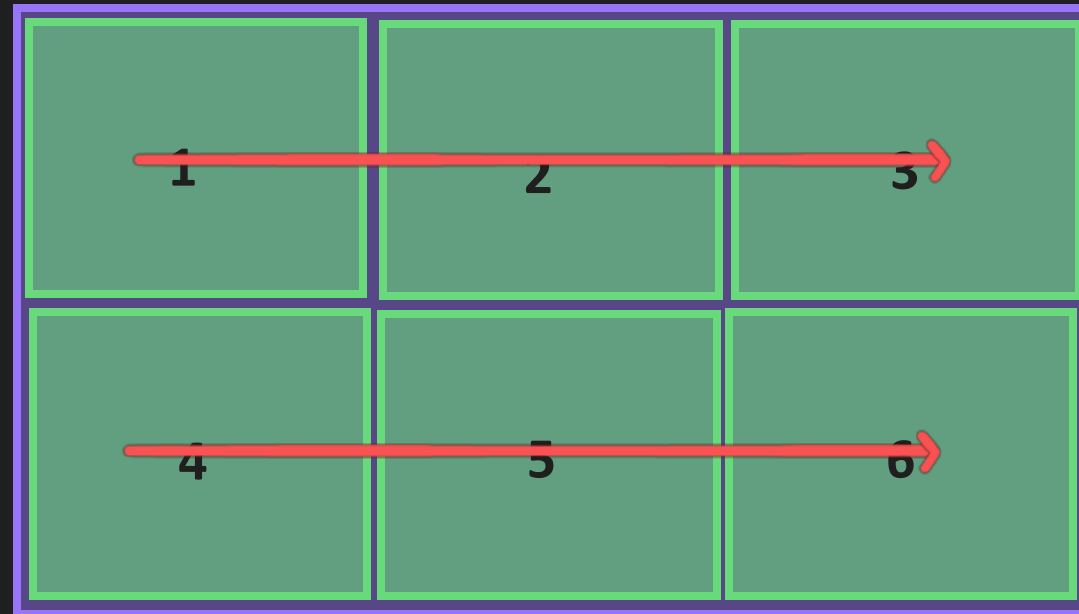
HTML ORDER



```
<div class="grid-container">
  <div class="grid-item-1">1</div>
  <div class="grid-item-2">2</div>
  <div class="grid-item-3">3</div>
  <div class="grid-item-4">4</div>
  <div class="grid-item-5">5</div>
  <div class="grid-item-6">6</div>
</div>
```

```
.grid-container {
  display: grid;
  grid-template-rows: 1fr 1fr 1fr;
}
```

FILLS UP LEFT TO RIGHT, ROW BY ROW



PLACING GRID ITEMS

GRID ITEMS CAN BE MOVED TO DIFFERENT CELLS

GRID ITEM 6

START LINE

grid-row: 1 / 2;

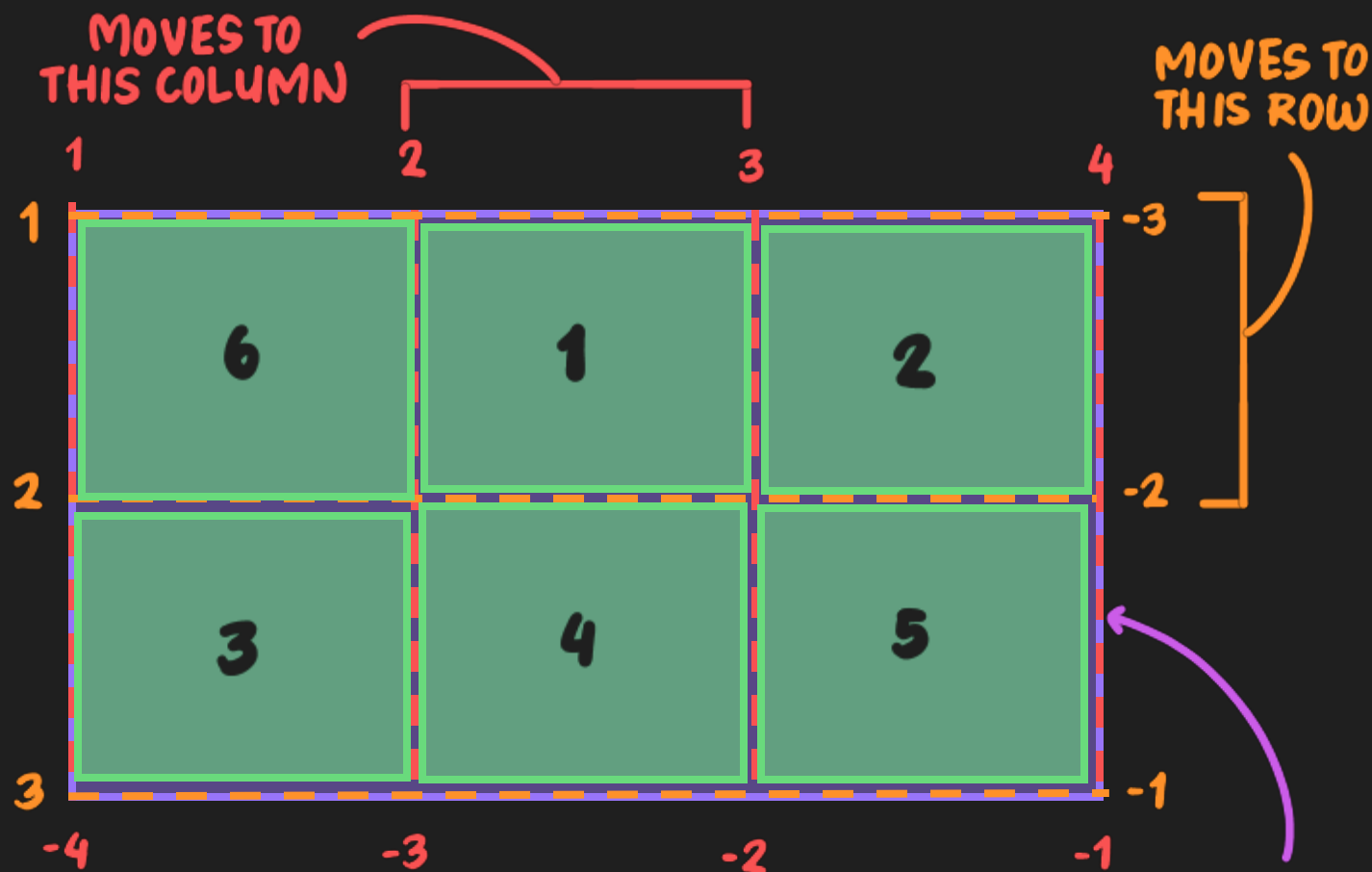
END LINE

START LINE

grid-column: 2 / 3;

END LINE

SET ON GRID ITEM



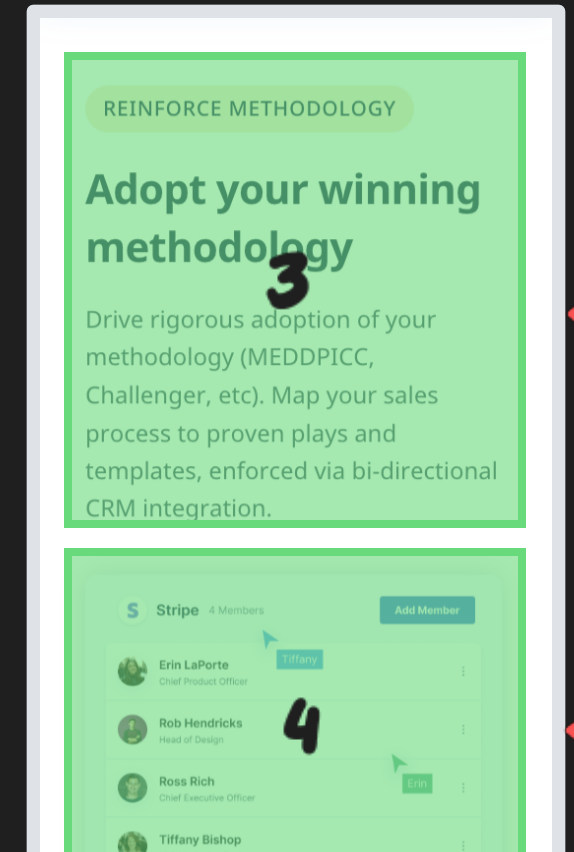
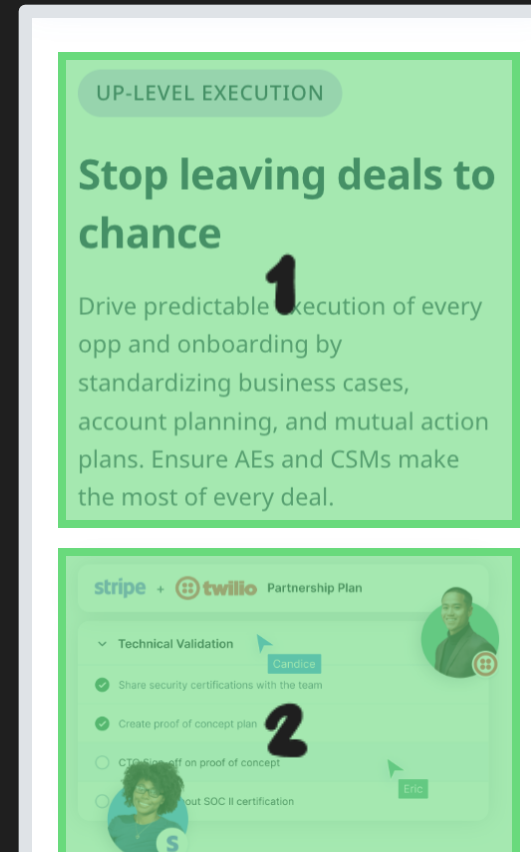
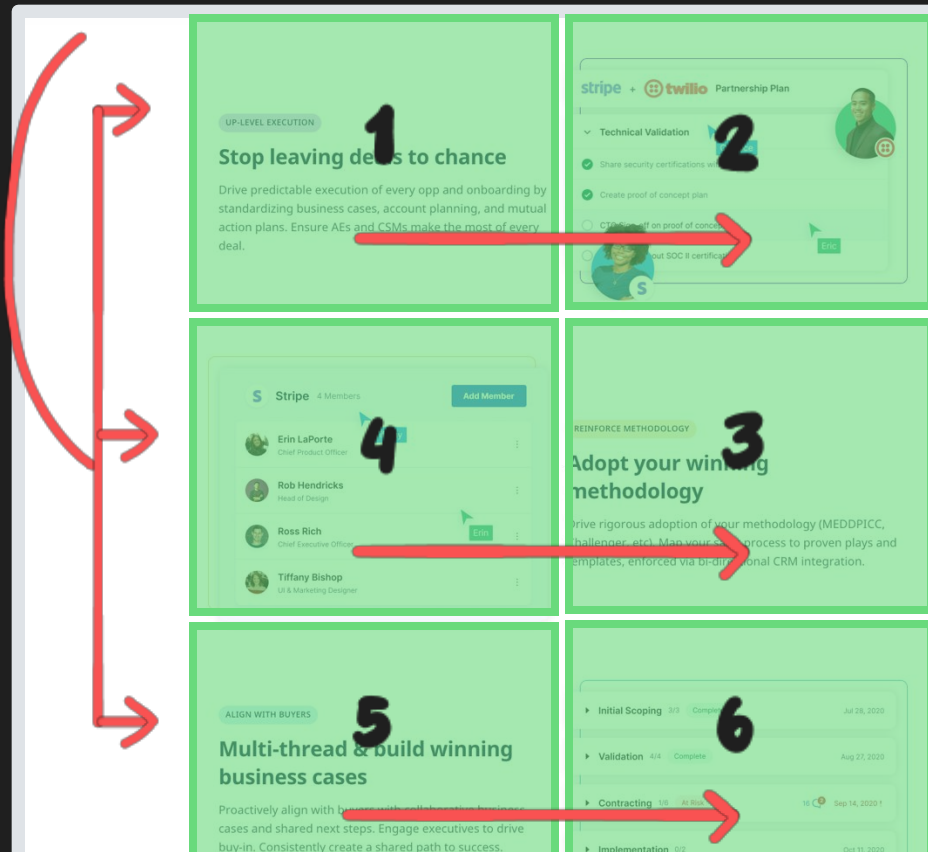
OTHER GRID ITEMS MOVE AUTOMATICALLY

PLACING GRID ITEMS GUIDANCE

PLACING GRID ITEMS IS USED TO ACHIEVE SPECIFIC LAYOUTS

ALTERNATING TEXT & IMAGE IN EACH ROW

GRID ITEMS NEED TO CHANGE POSITION ON MOBILE





SPANNING GRID CELLS

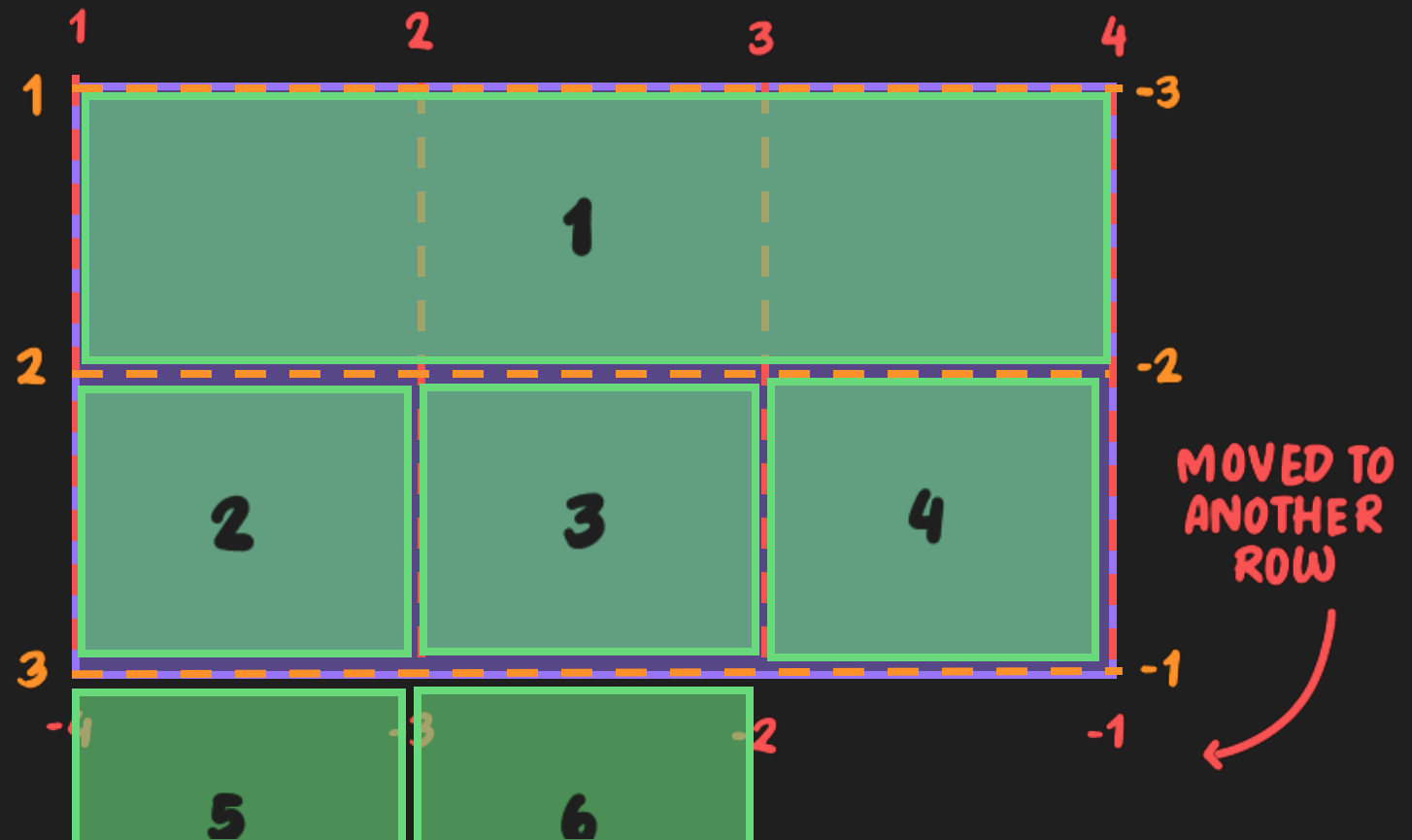
GRID-ROW AND GRID-COLUMN CAN BE USED TO HAVE GRID ITEMS SPAN MULTIPLE ROWS OR COLUMNS

GRID ITEM 1

START LINE

END LINE

grid-column: 1 / 4;





SPANNING GRID CELLS

GRID-ROW AND GRID-COLUMN CAN BE USED TO HAVE GRID ITEMS SPAN MULTIPLE ROWS OR COLUMNS

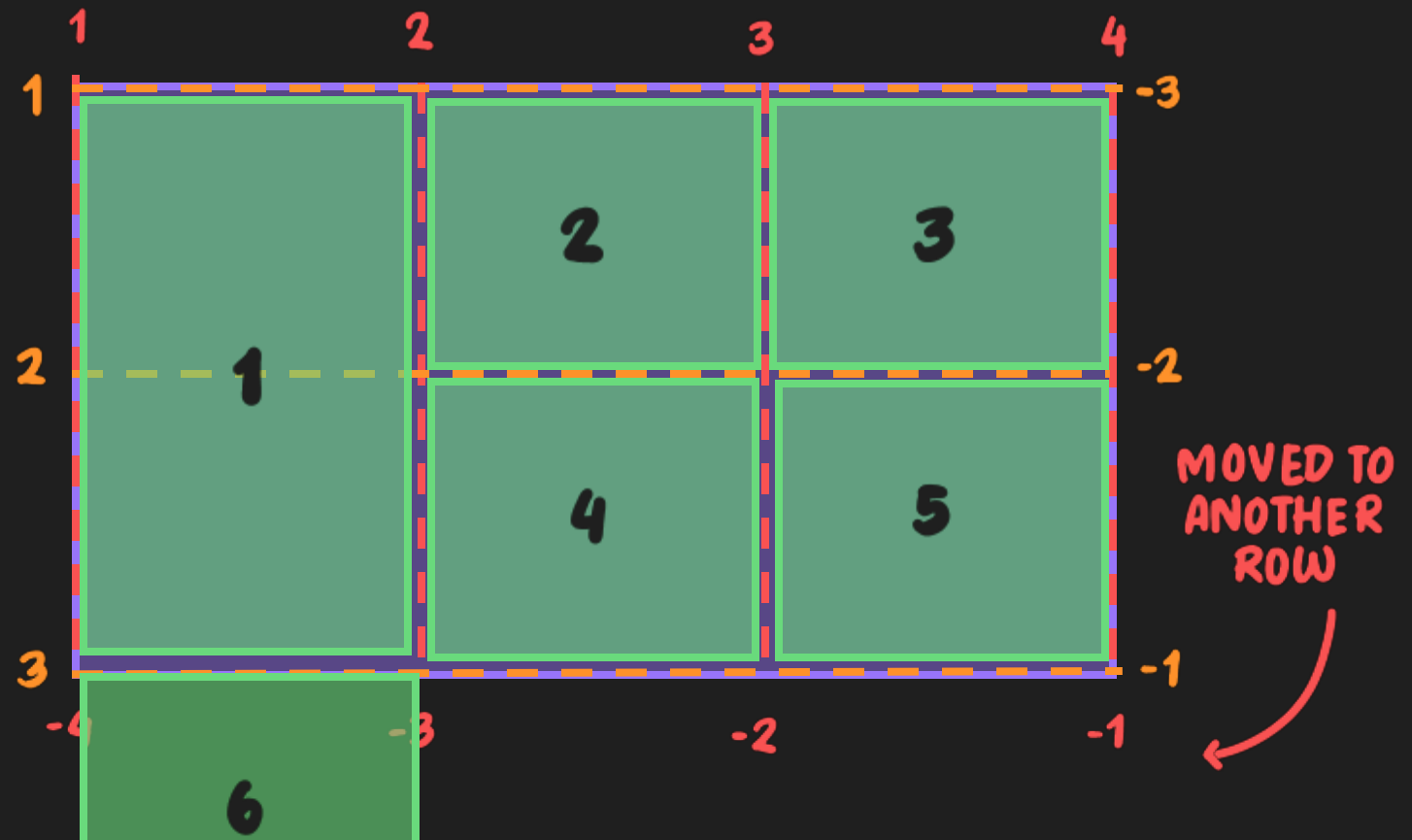
GRID ITEM 1

START LINE

grid-row: 1 / span 2;

CELLS TO SPAN

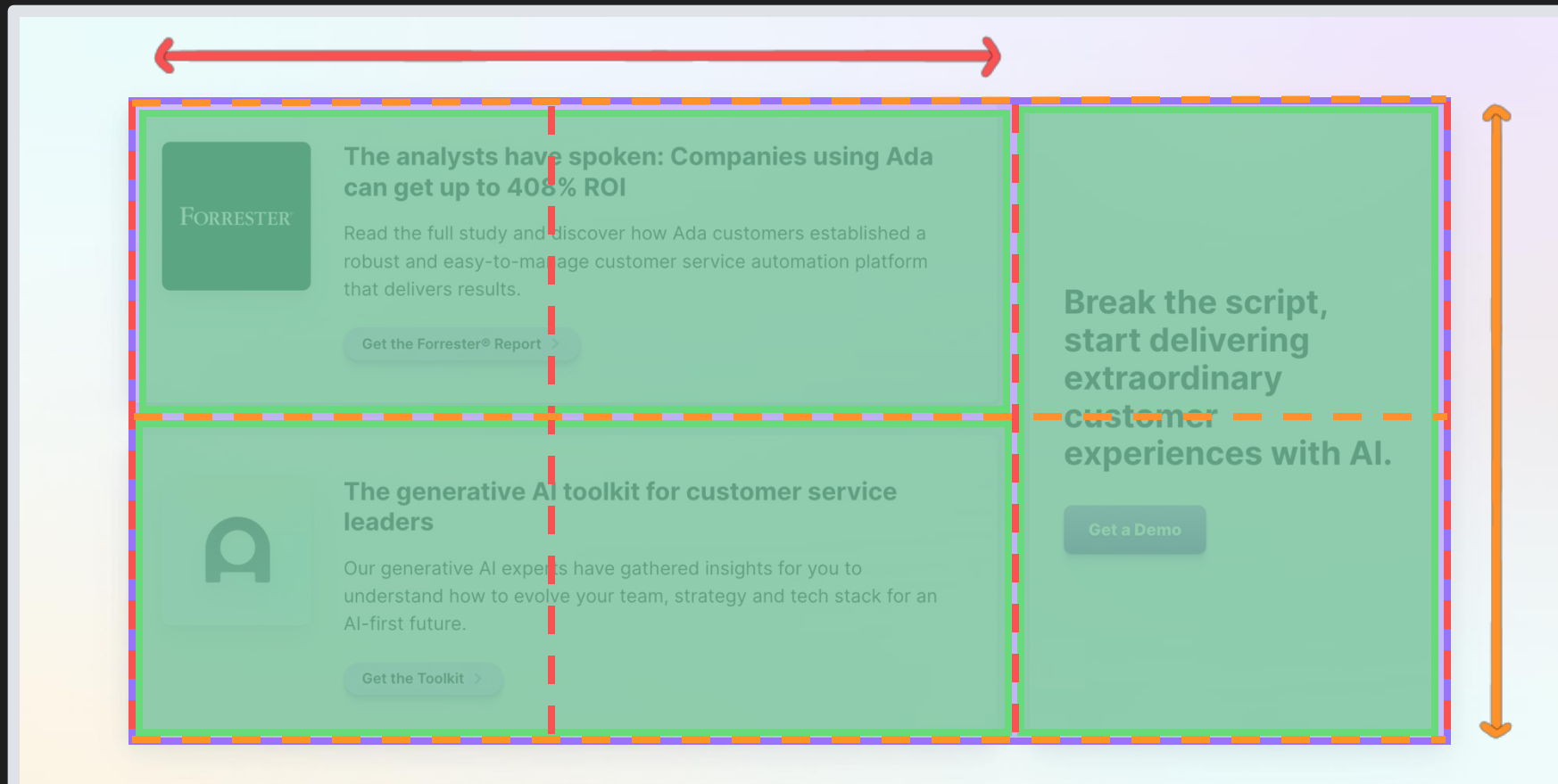
1



SPANNING GRID CELLS GUIDANCE

GRID CELLS CAN BE SPANNED TO CREATE VISUALLY INTERESTING DESIGNS

SPANS 2 COLUMNS



SPANS
2 ROWS

ALIGNING GRID ITEMS

GRID CELL ALIGNMENT CAN BE OVERRIDDEN FOR INDIVIDUAL ITEMS ↖ NOT TOO COMMON

GRID CONTAINER

`justify-items: center;`

`align-items: center;`

GRID ITEM 2

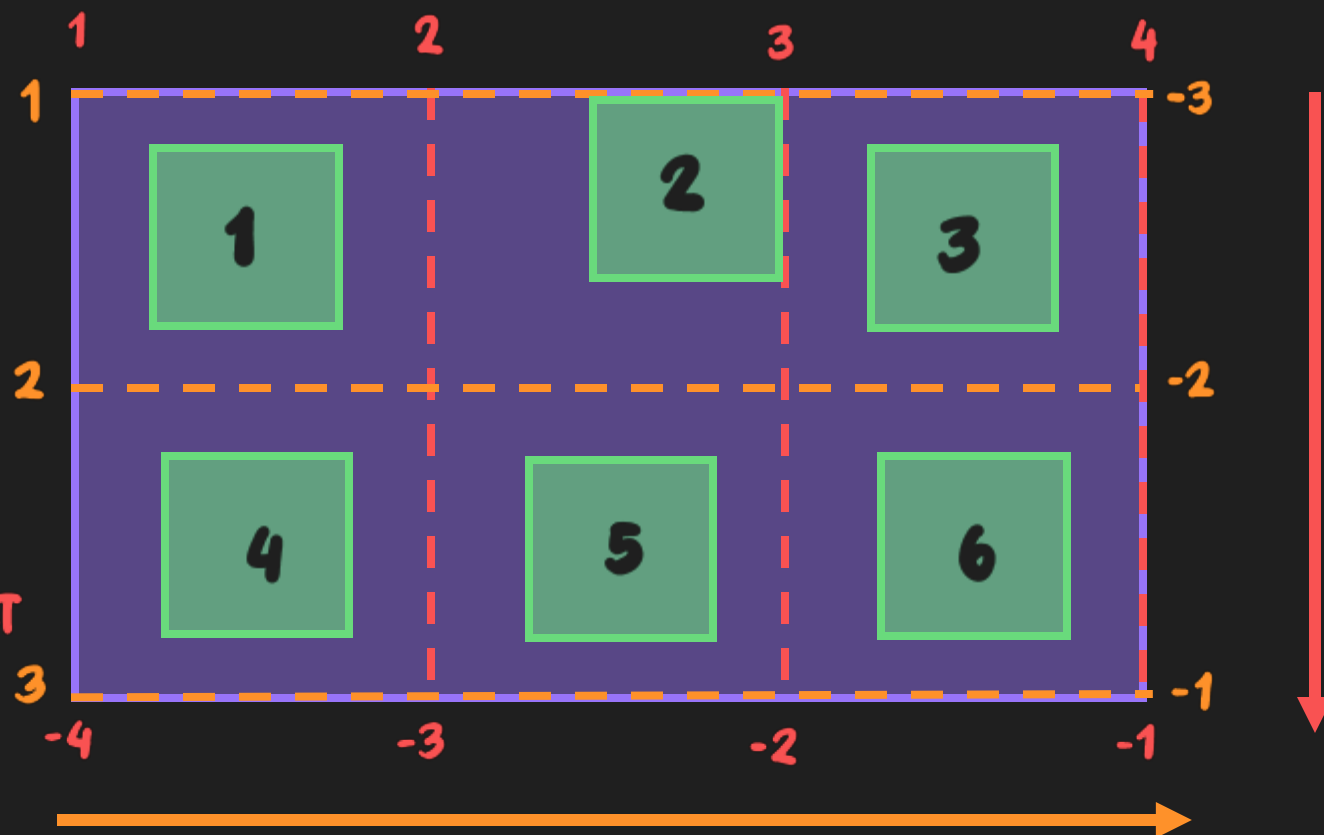
`justify-self: end;`

`align-self: start;`

VALUES

start end center stretch

DEFAULT



QUILL HOMEPAGE

Write all your journals in a few clicks

Unlock the simplicity of online journaling - say goodbye to the hassle of pen and paper and hello to effortless journaling with just a few clicks.



PLACE IMAGE

Beautifully displayed and neatly organised

Not just words on a screen - our journals are beautifully displayed and neatly organised.



Create and reflect from anywhere in the world

Whether you're at home or exploring the far corners of the world, create and reflect on your experiences, thoughts, and emotions from anywhere on the globe.

