# CSS Grid Terminology

# Grid **Container**

Element containing a grid, defined by setting
`display: grid;`

```html
<div class="site">

    <header class="masthead">
    </header>

    <h1 class="page-title">
    </h1>

    <main class="main-content">
    </main>

    <aside class="sidebar">
    </aside>

    <footer class="footer">
    </footer>

</div><!-- .site -->
```
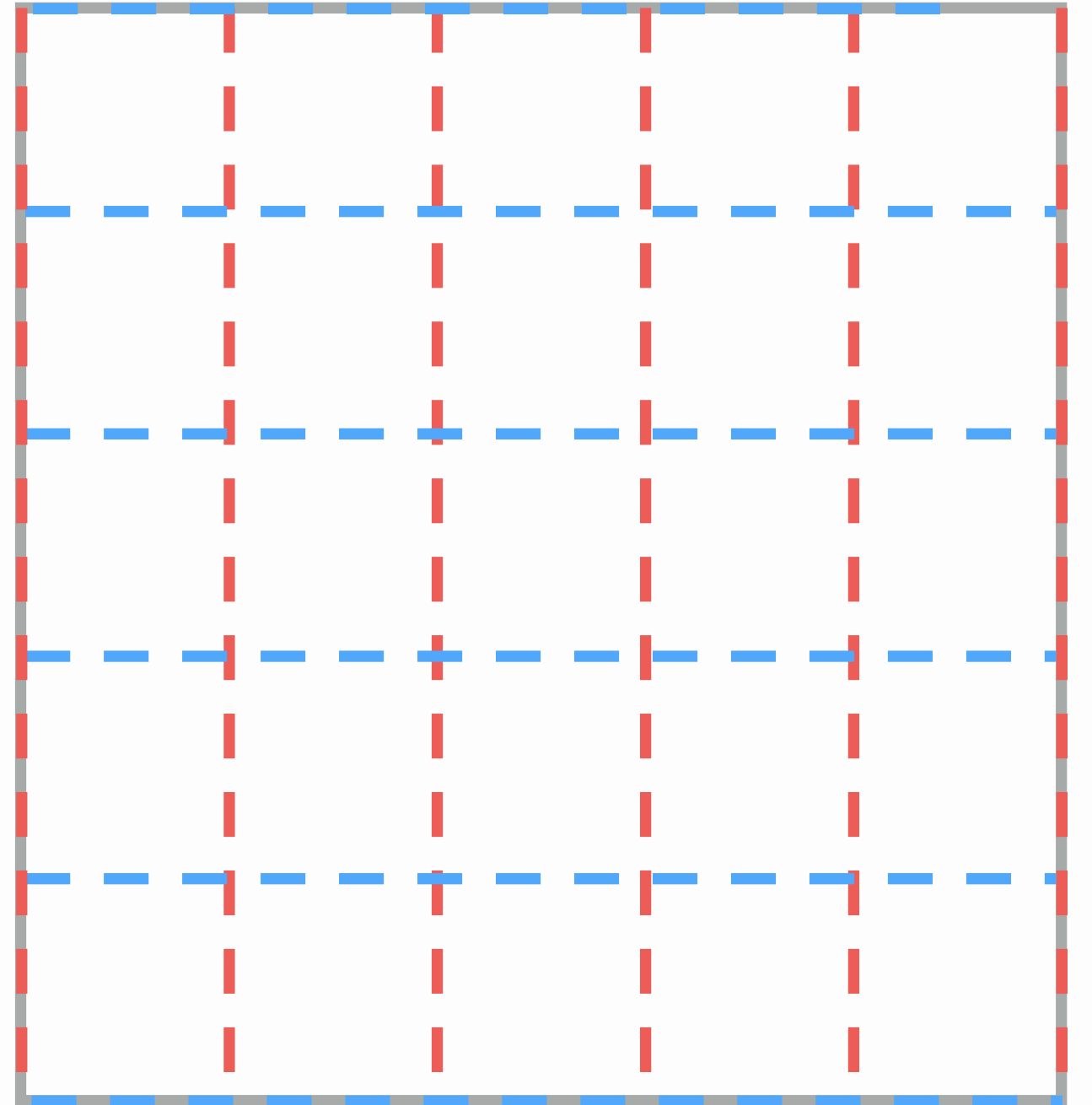
# Grid **Item**

Element that is a direct descendant of the grid container.

```html
<div class="site">

    <header class="masthead">
    </header>

    <h1 class="page-title">
    </h1>

    <main class="main-content">
    </main>

    <aside class="sidebar">
    </aside>

    <footer class="footer">
    </footer>

</div><!-- .site -->
```
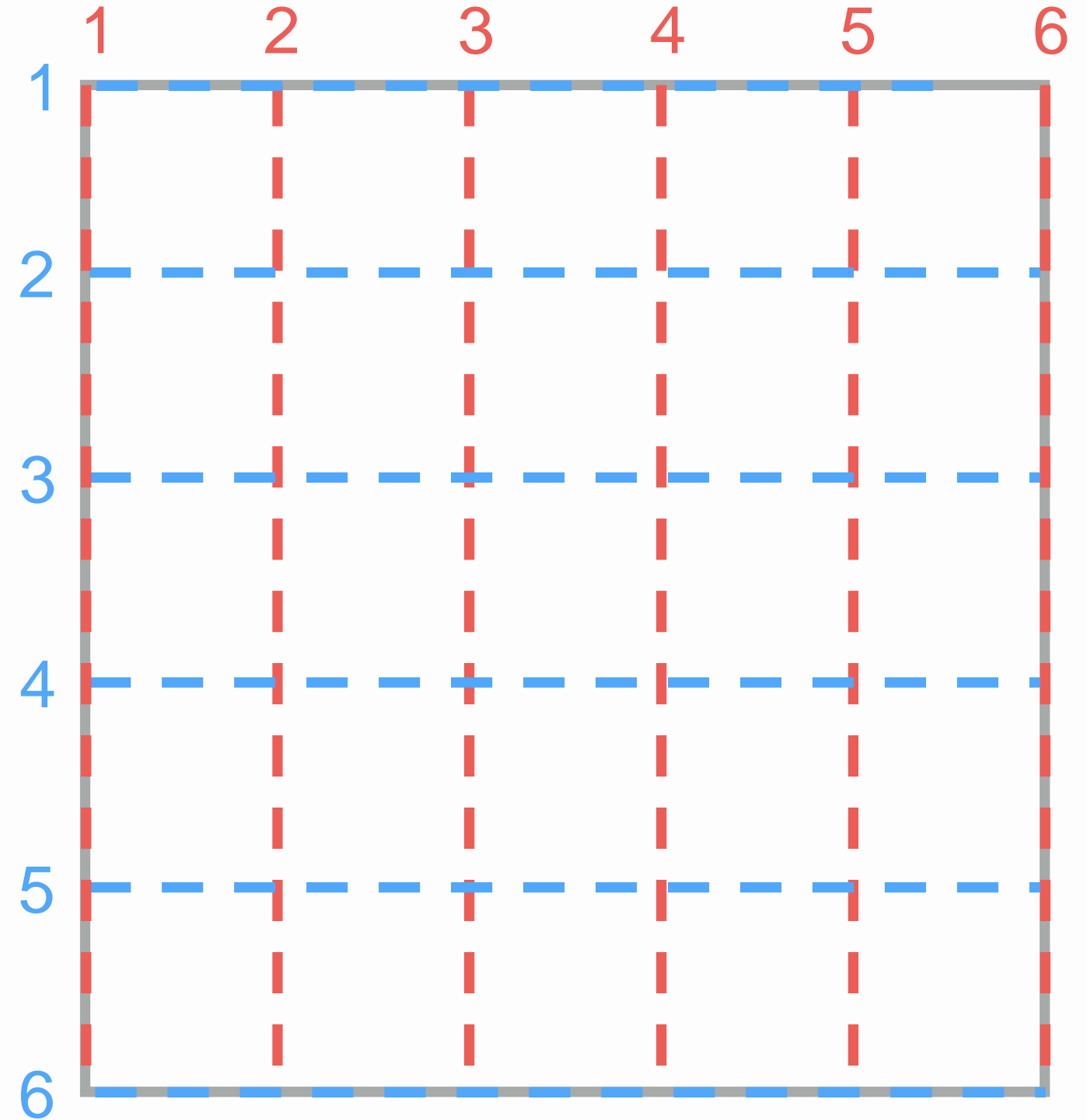
# Grid **Line**

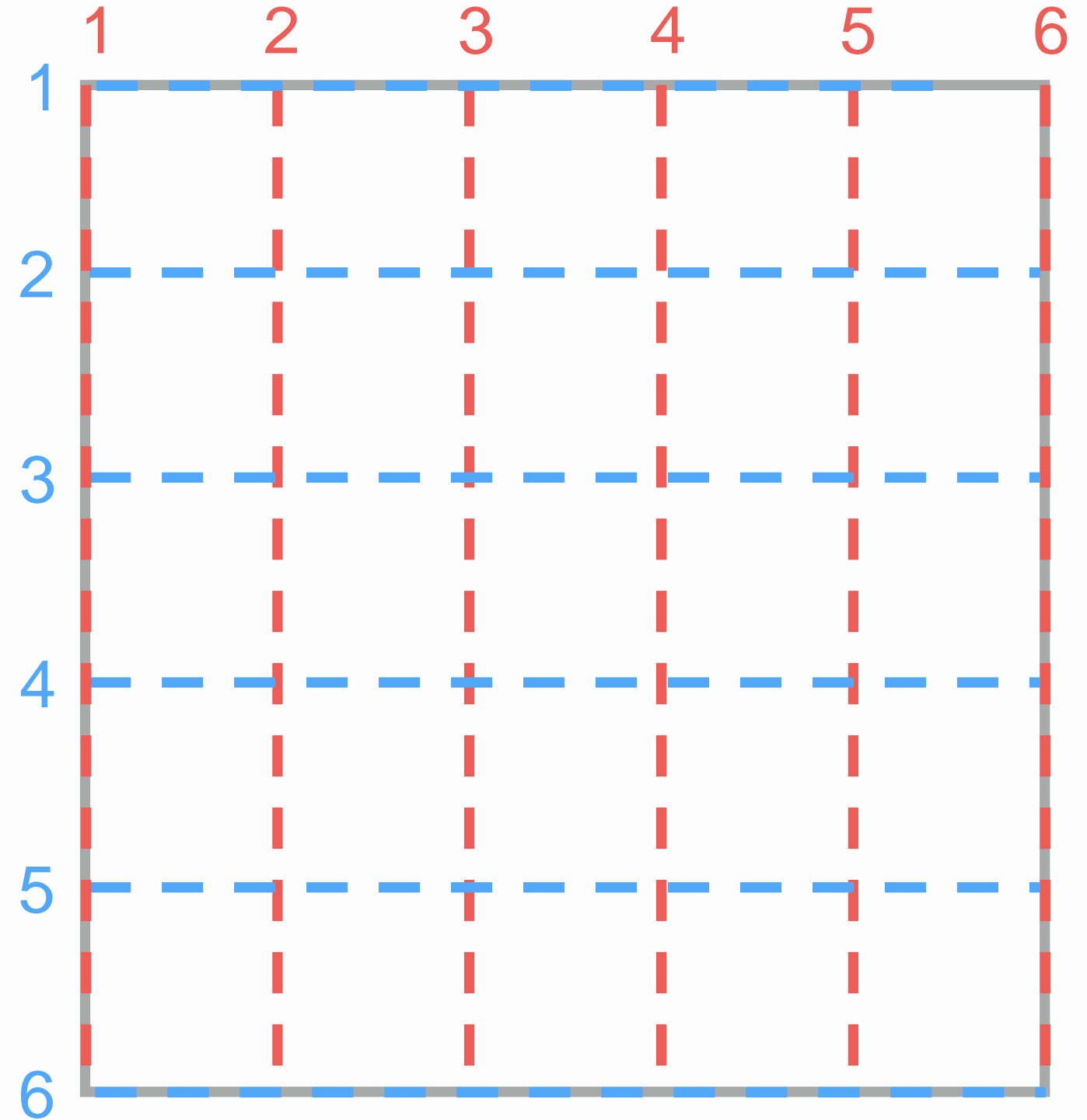Horizontal (row) or vertical (column) line separating the grid into sections.

# Grid **Line**

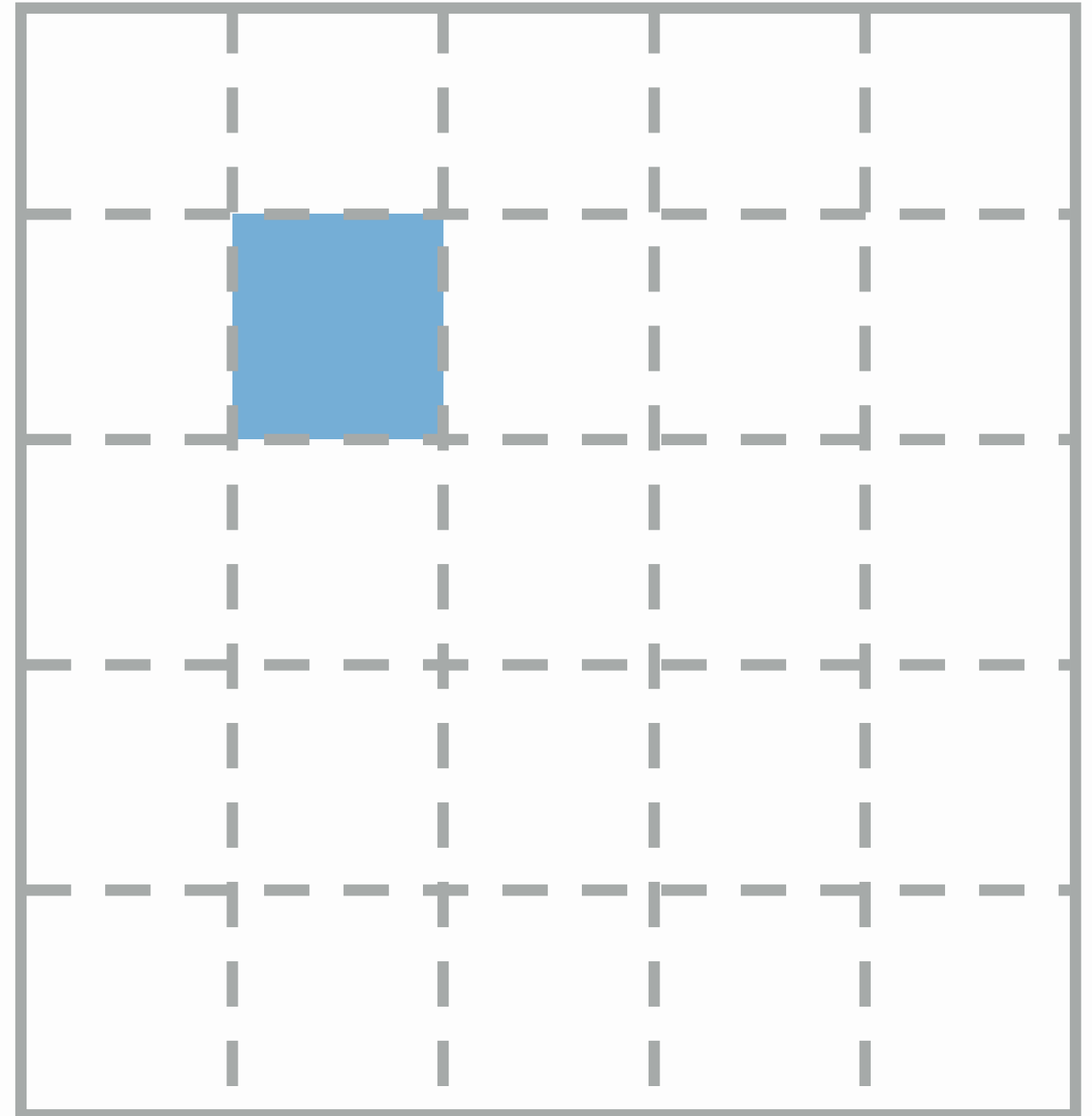Grid lines are referenced by number, starting and ending with the outer borders of the grid.

# Grid **Line**

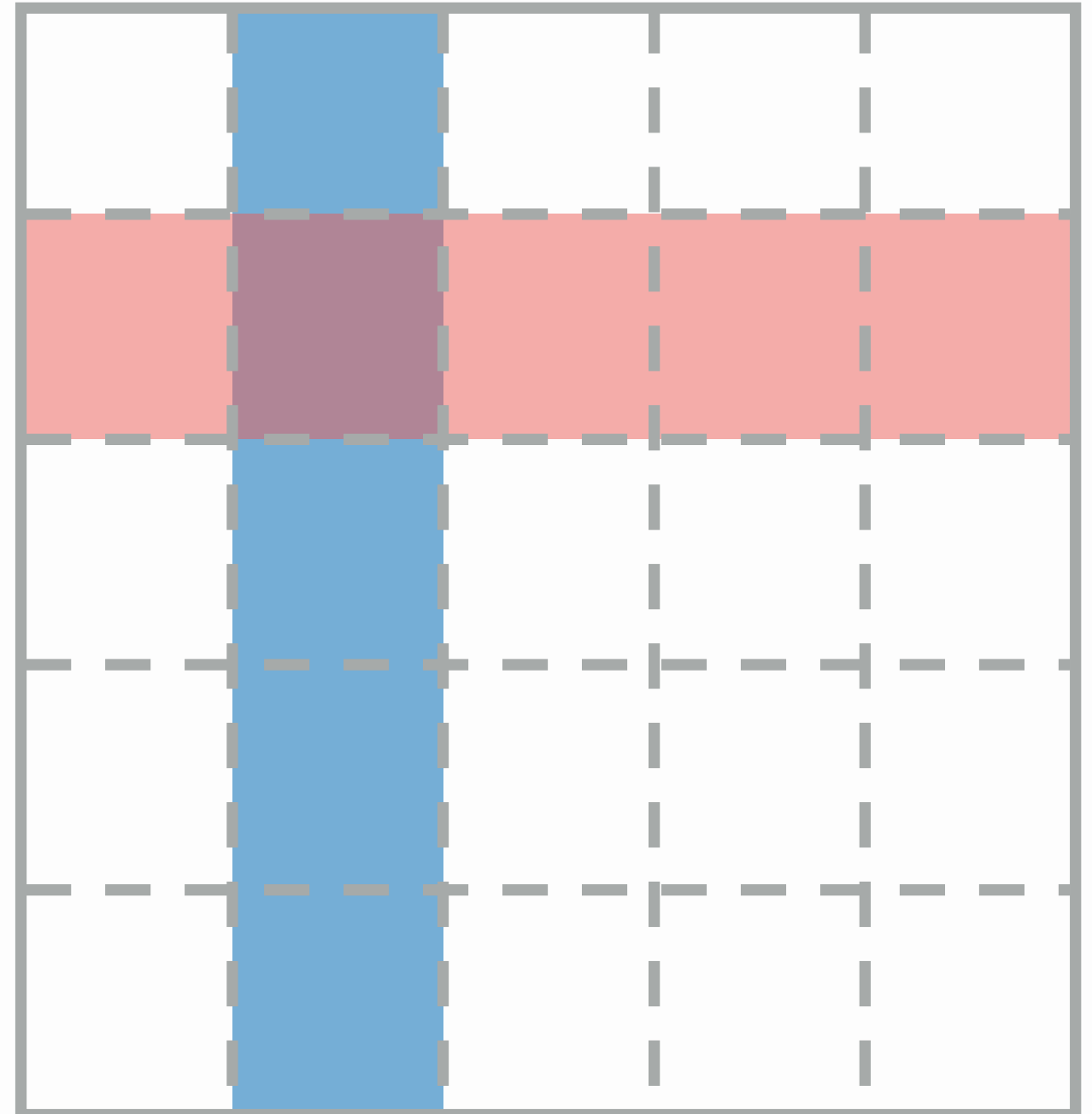Grid lines can also be named for easier reference.

# Grid **Cell**

The intersection between a grid row and a grid column. Effectively the same as a table cell.
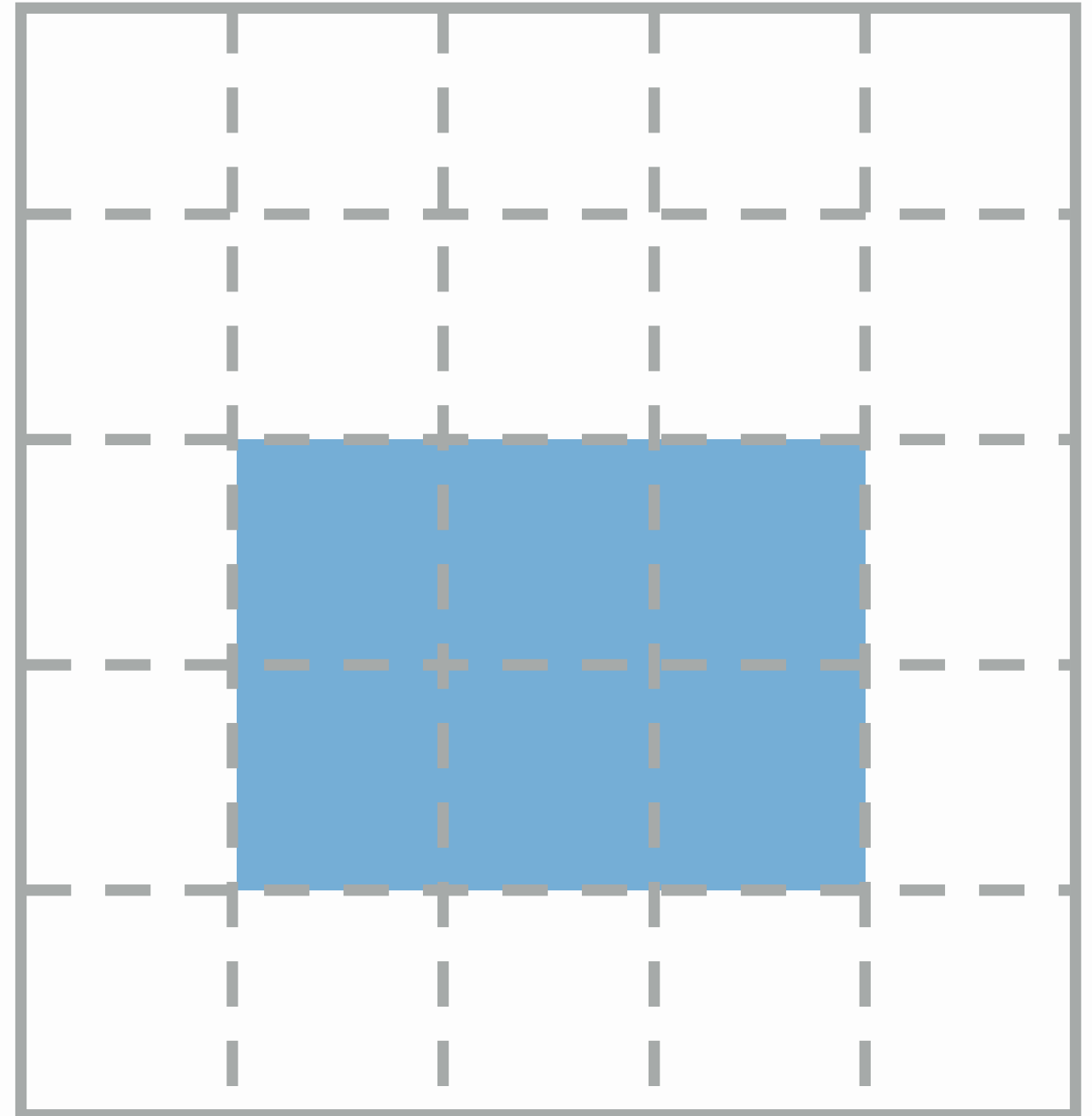
# Grid **Track**

The space between two or
more adjacent grid **lines**.
Row tracks are horizontal,
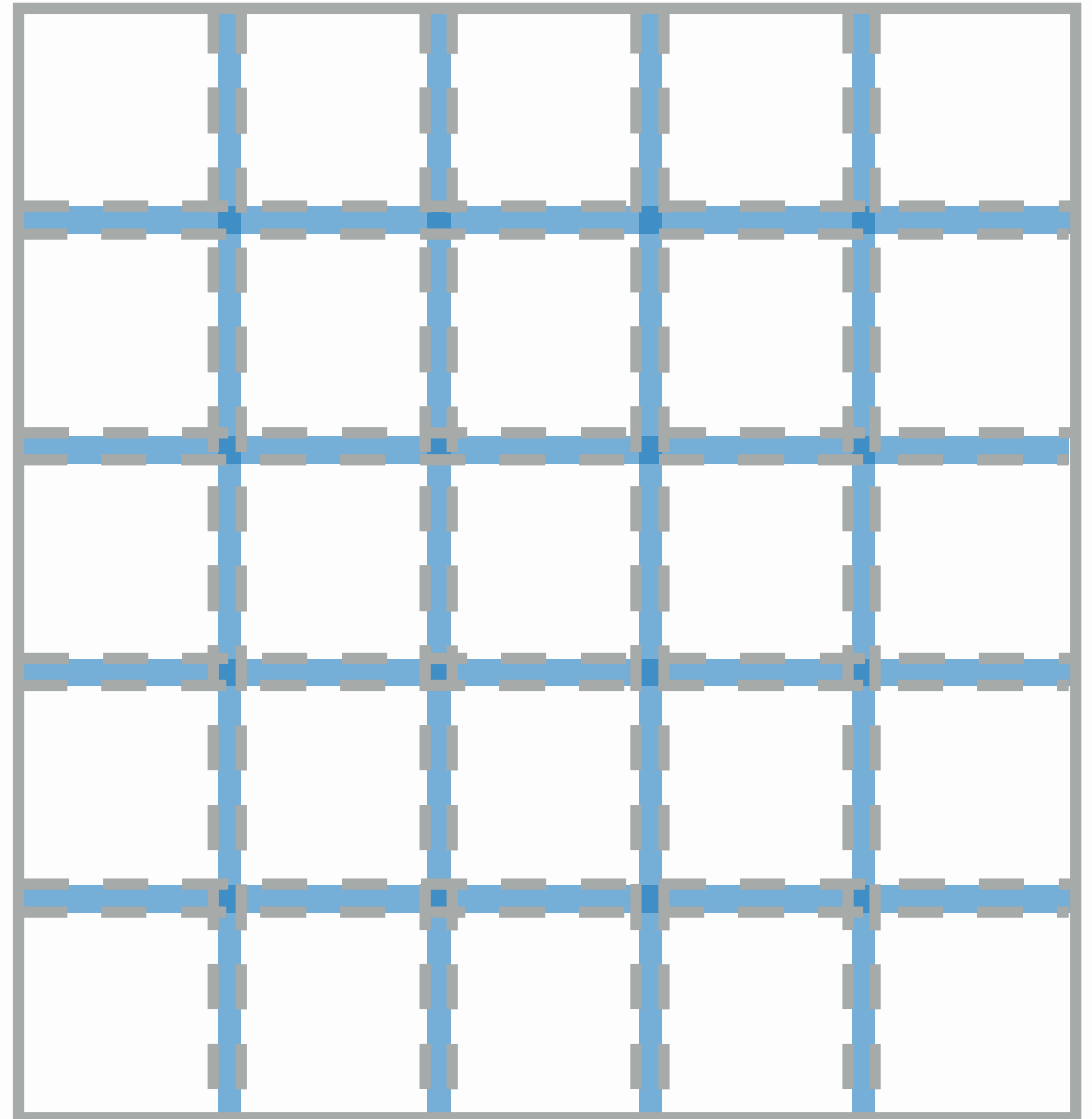Column tracks vertical.

# Grid **Area**

Rectangular area between four specified grid lines. Grid areas can cover one or more cells.

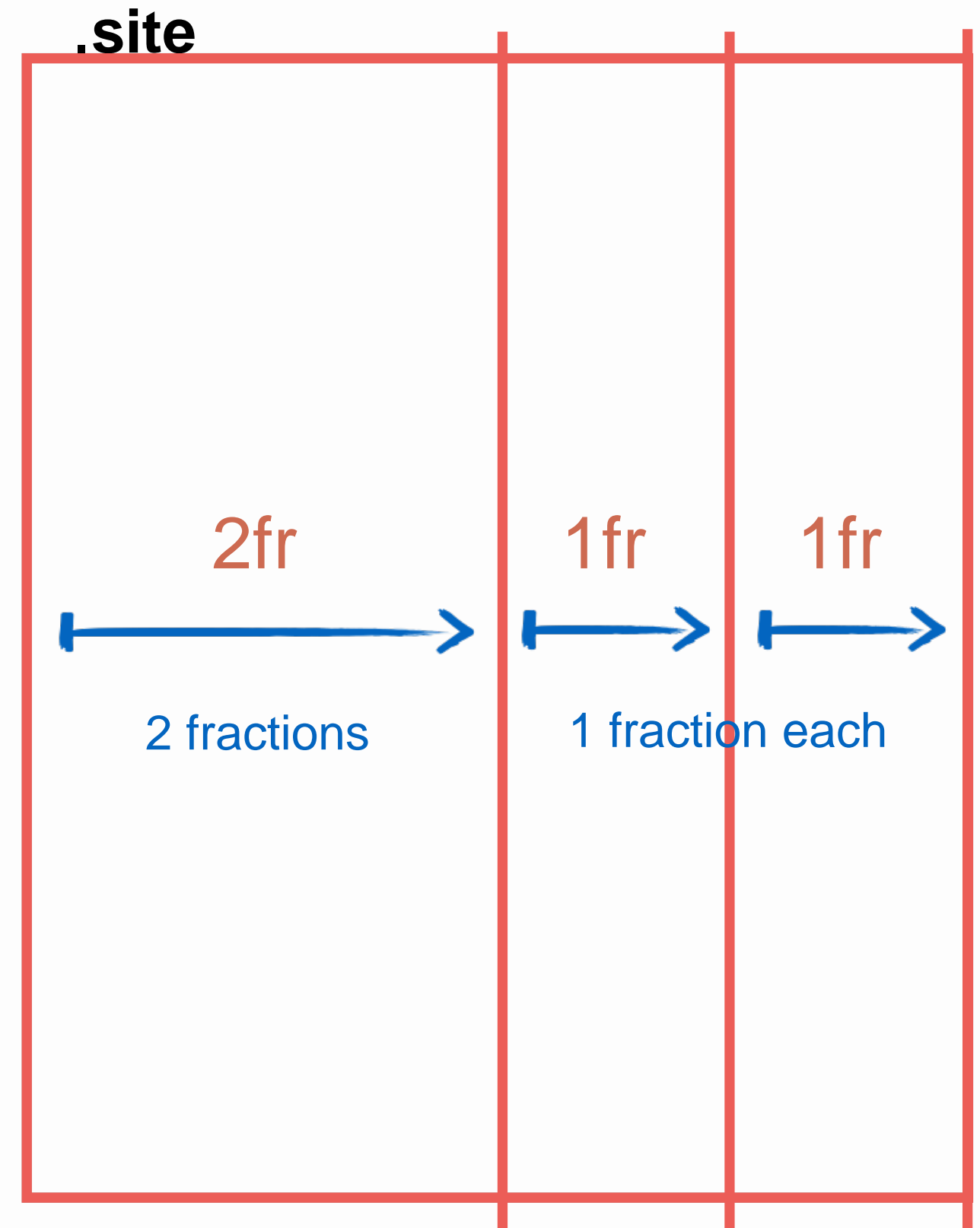# Grid **Gap**

Empty space between grid tracks (shown in blue).
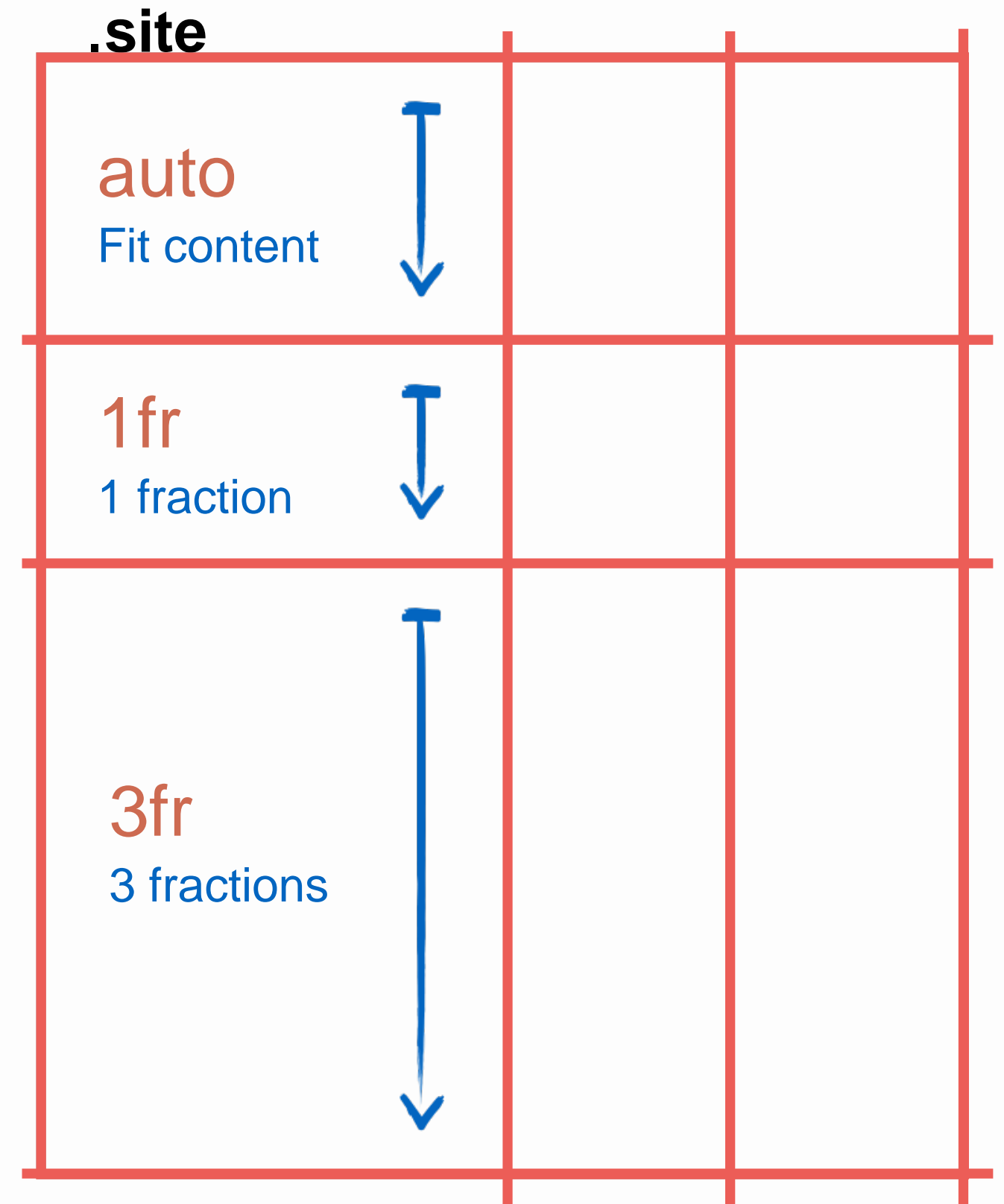
Commonly called *gutters*.

# CSS Grid Lines and Units

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

Draws grid lines. Takes list of length values (em, px, %, fr, etc.) denoting the distance between each line.

## grid-template-rows: auto 1fr 3fr;

Draws grid lines. Takes list of length values (em, px, %, fr, etc.) denoting the distance between each line.

**.site**

auto
Fit content

1fr
1 fraction

3fr
3 fractions

# Fraction (fr) unit

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

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

# minmax() function

The minmax() function defines a size range greater than or equal to min and less than or equal to max.

```
grid-template-rows: 1fr minmax(10em, 20em) 1fr;
```
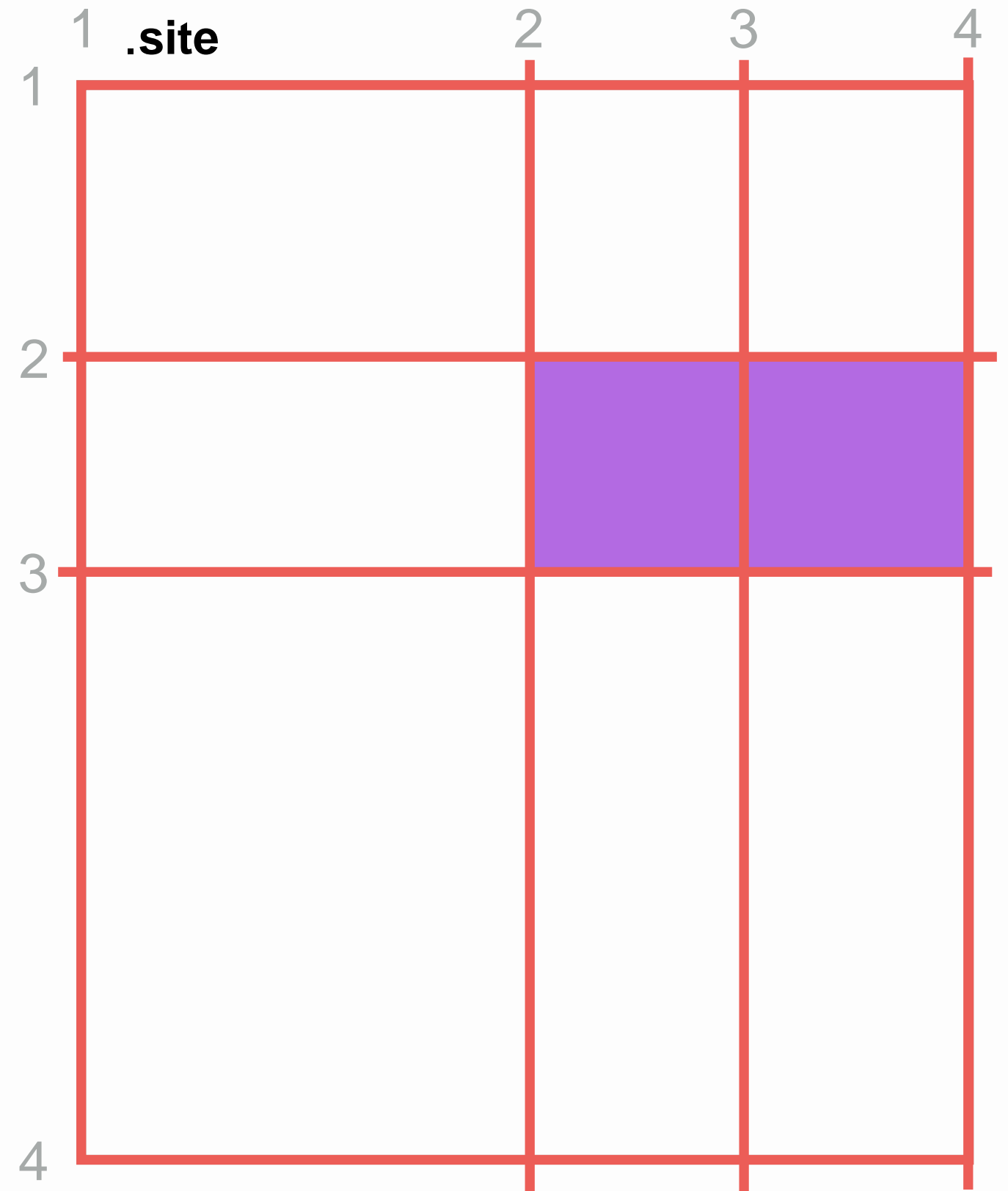
# repeat() notation

The repeat() notation repeats the provided pattern a specified number of times.

```
grid-template-rows: repeat(2, 1fr) 2fr;
```

# Placing Items on the Grid

# grid-column: 2/4;
# grid-row: 2/3;

Applied to grid items.
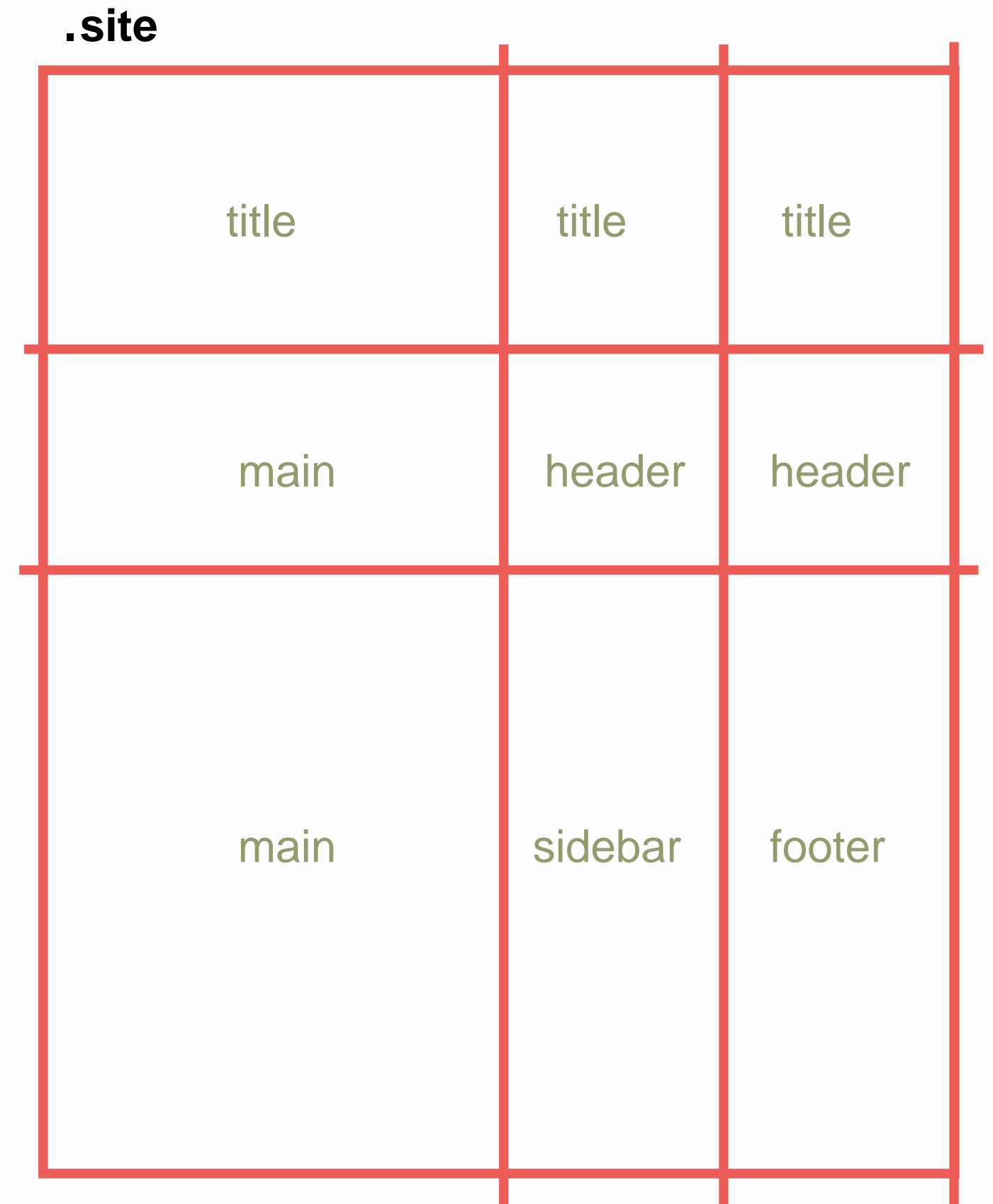Places the item by
declaring start and end
lines.

# span keyword

The span keyword is used to define how many grid tracks an element should span.

```
// Start at line 2, span 3 columns:
grid-columns: 2/3 span;
```

# Grid Areas

# grid-template-areas

Applied to grid container.
Uses a text-based grid
map to apply grid area
names to individual cells.

**.site**

| title | title | title |
|---|---|---|
| main | header | header |
| main | sidebar | footer |

# Implicit lines

If grid item placement requires additional columns or rows to be created, the browser adds implicit lines to keep the grid structurally sound.