FLEXBOX & GRID

EXPLICIT & IMPLICIT GRID

IN A ROCKET

Learn front-end development at rocket speed

“**Grid Layout** controls the layout of its content through the use of a grid: an intersecting set of horizontal and vertical lines which create a sizing and positioning coordinate system for the grid container’s contents.”

— W3C®

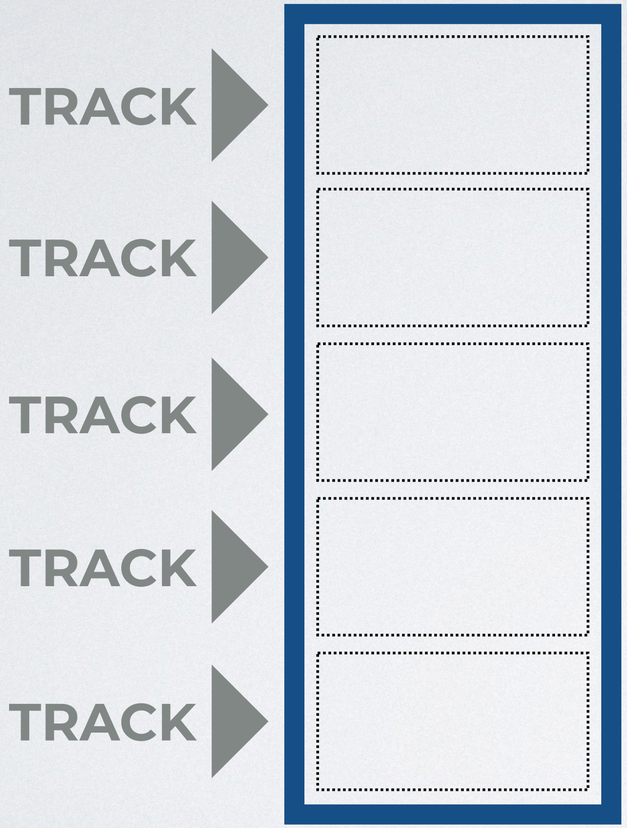
SOURCE: CSS Grid Layout Module Level 1 by W3C.

in a ROCKET

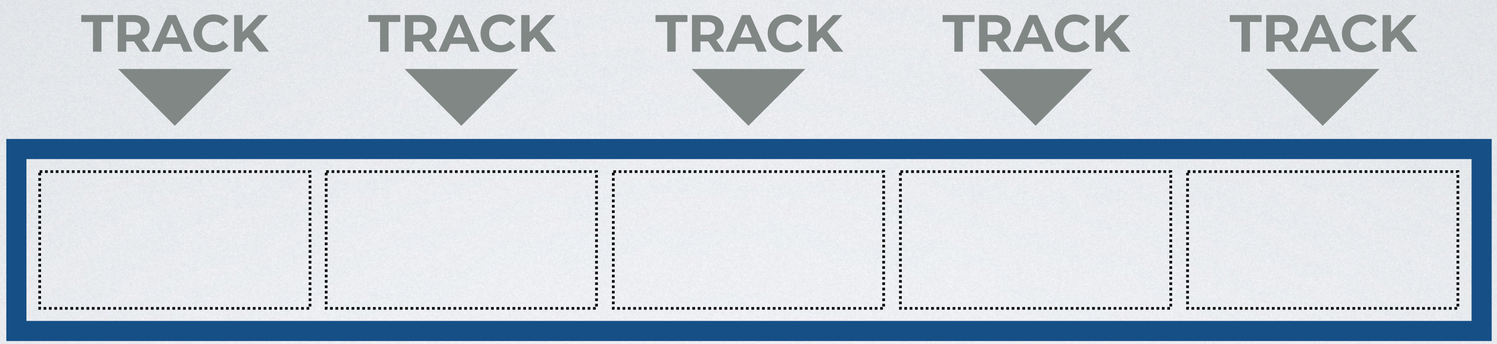
EXPLICIT GRID

~ ~ ~

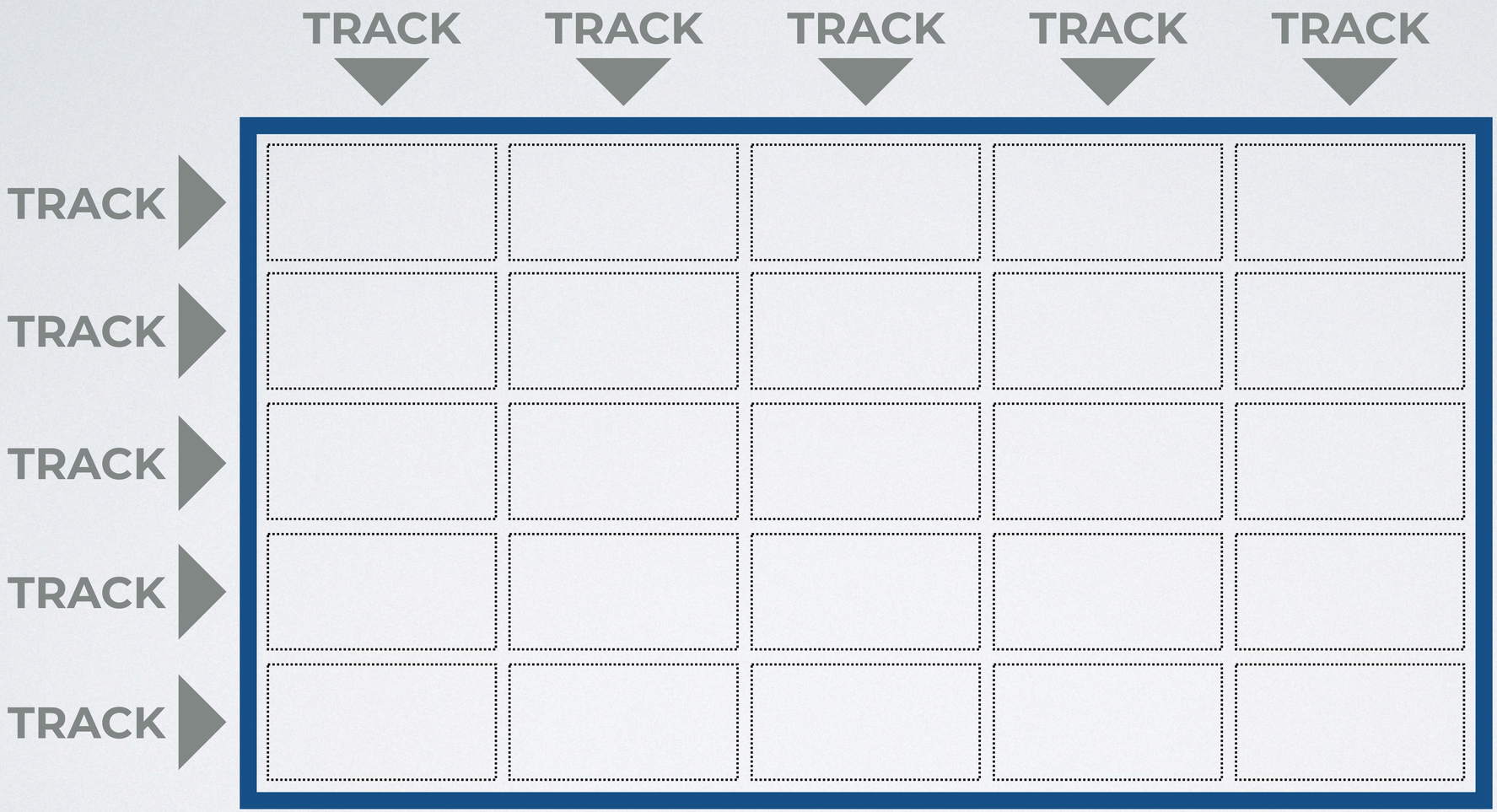
```
grid-template-rows: 50px 50px 50px 50px 50px
```



```
grid-template-columns: 100px 100px 100px 100px 100px
```



```
grid-template-rows: 50px 50px 50px 50px 50px
grid-template-columns: 100px 100px 100px 100px 100px
```



EXPLICIT GRID

READY TO USE CODE

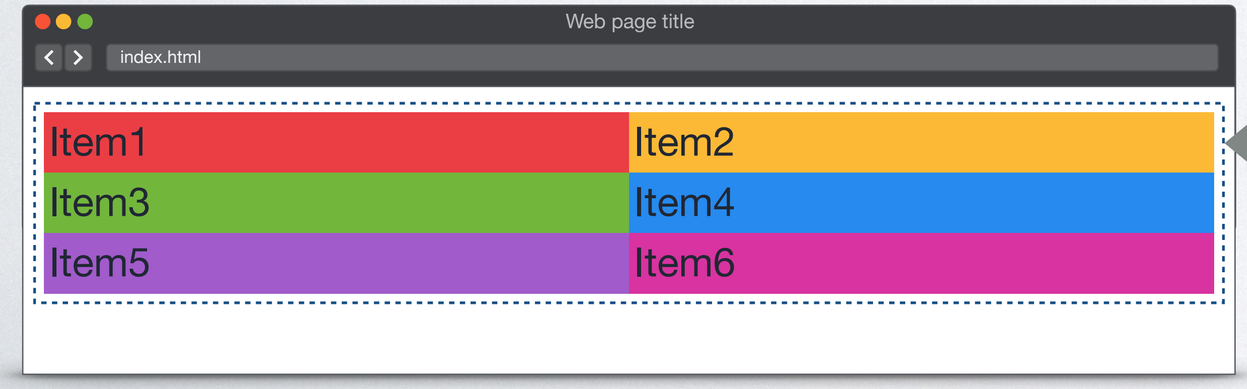
HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
  <div>Item5</div>
  <div>Item6</div>
</div>
</body>
```

CSS

```
.container {
  display: grid;
  grid-template-rows: 100px 100px 100px;
  grid-template-columns: 50% 50%;
}
```

Browser



EXPLICIT GRID

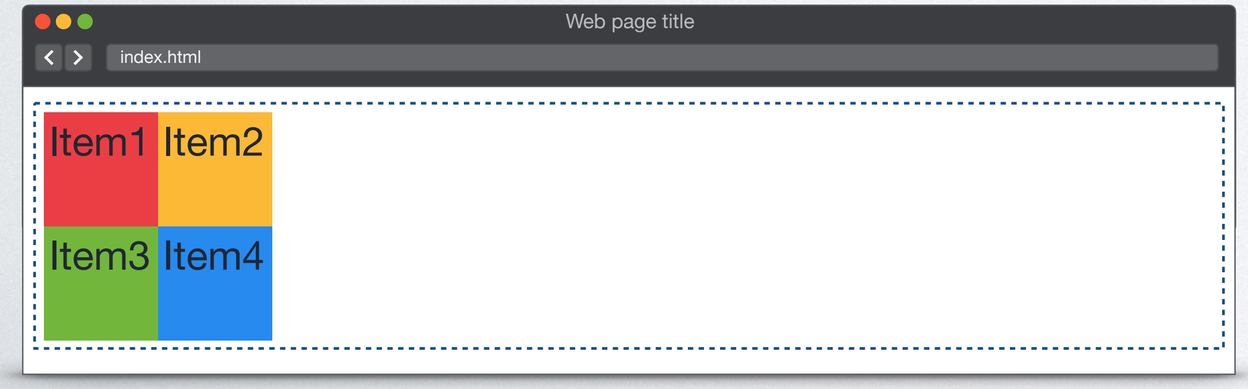
HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
</div>
</body>
```

CSS

```
.container {
  display: grid;
  grid-template-rows: 100px 100px;
  grid-template-columns: 100px 100px;
}
```

Browser



EXPLICIT GRID

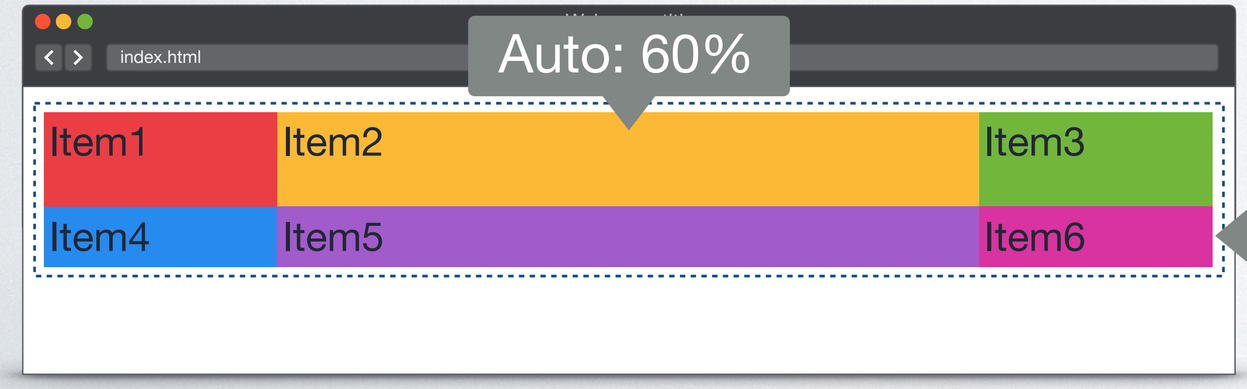
HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
  <div>Item5</div>
  <div>Item6</div>
</div>
</body>
```

CSS

```
.container {
  display: grid;
  grid-template-rows: 100px auto;
  grid-template-columns: 20% auto 20%;
}
```

Browser



EXPLICIT GRID

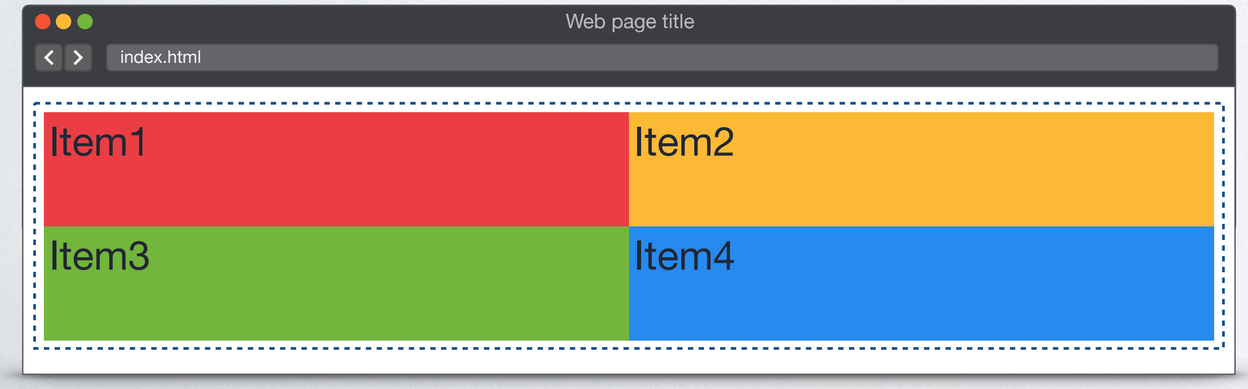
HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
</div>
</body>
```

CSS

```
.container {
  display: grid;
  grid-template-rows: 50vh 50vh;
  grid-template-columns: 50vw 50vw;
}
```

Browser



SHORTHAND

grid-template: *rows* / *columns*

SHORTHAND

grid-template: 200px 200px / 50% 50%

=

grid-template-rows: 200px 200px

grid-template-columns: 50% 50%

SHORTHAND

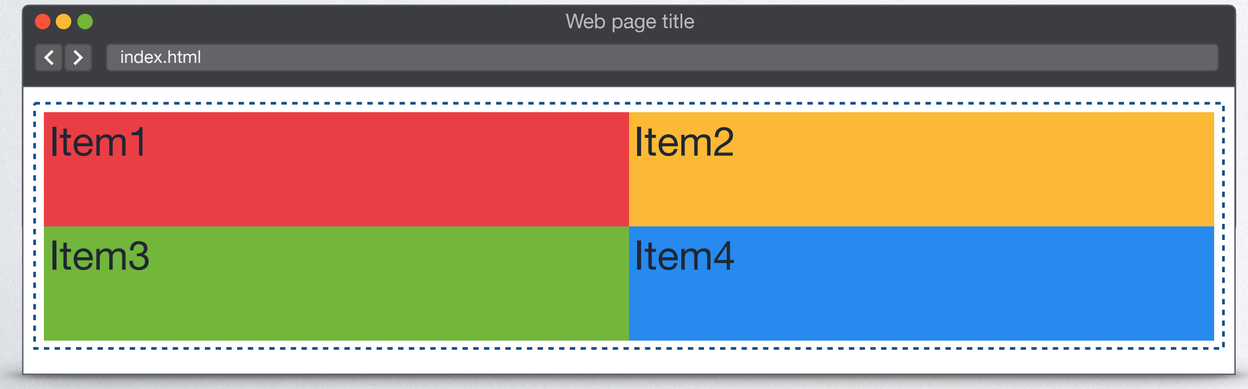
HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
</div>
</body>
```

CSS

```
.container {
  display: grid;
  grid-template: 50vh 50vh / 50vw 50vw;
}
```

Browser



in a ROCKET

IMPLICIT GRID

~ ~ ~

“If you place something outside of the defined grid—or due to the amount of content, more grid tracks are needed—then the grid creates rows and columns in the implicit grid. These tracks will be auto-sized by default, resulting in their size being based on the content that is inside them.”

— 

SOURCE: Basic concepts of grid layout by MDN.

IMPLICIT GRID

READY TO USE CODE

HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
  <div>Item5</div>
  <div>Item6</div>
</div>
</body>
```

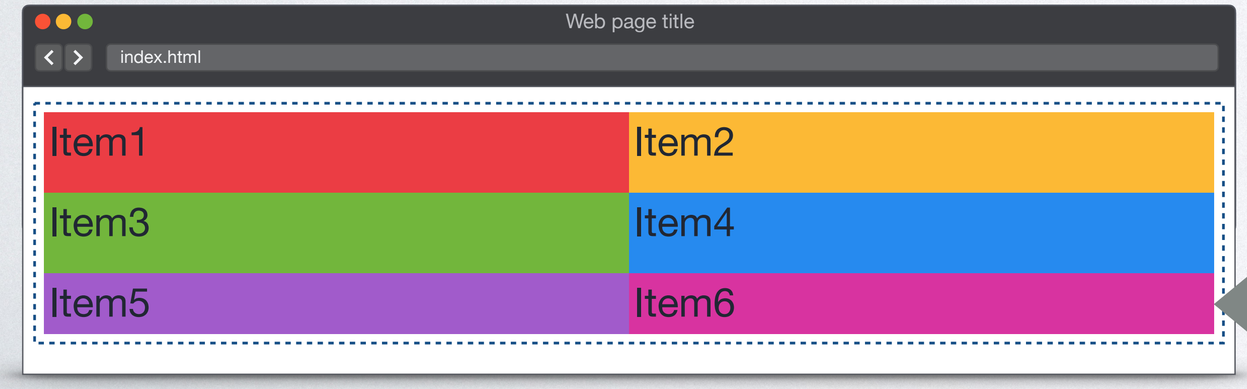
6

CSS

```
.container {
  display: grid;
  grid-template-rows: 100px 100px;
  grid-template-columns: 50% 50%;
}
```

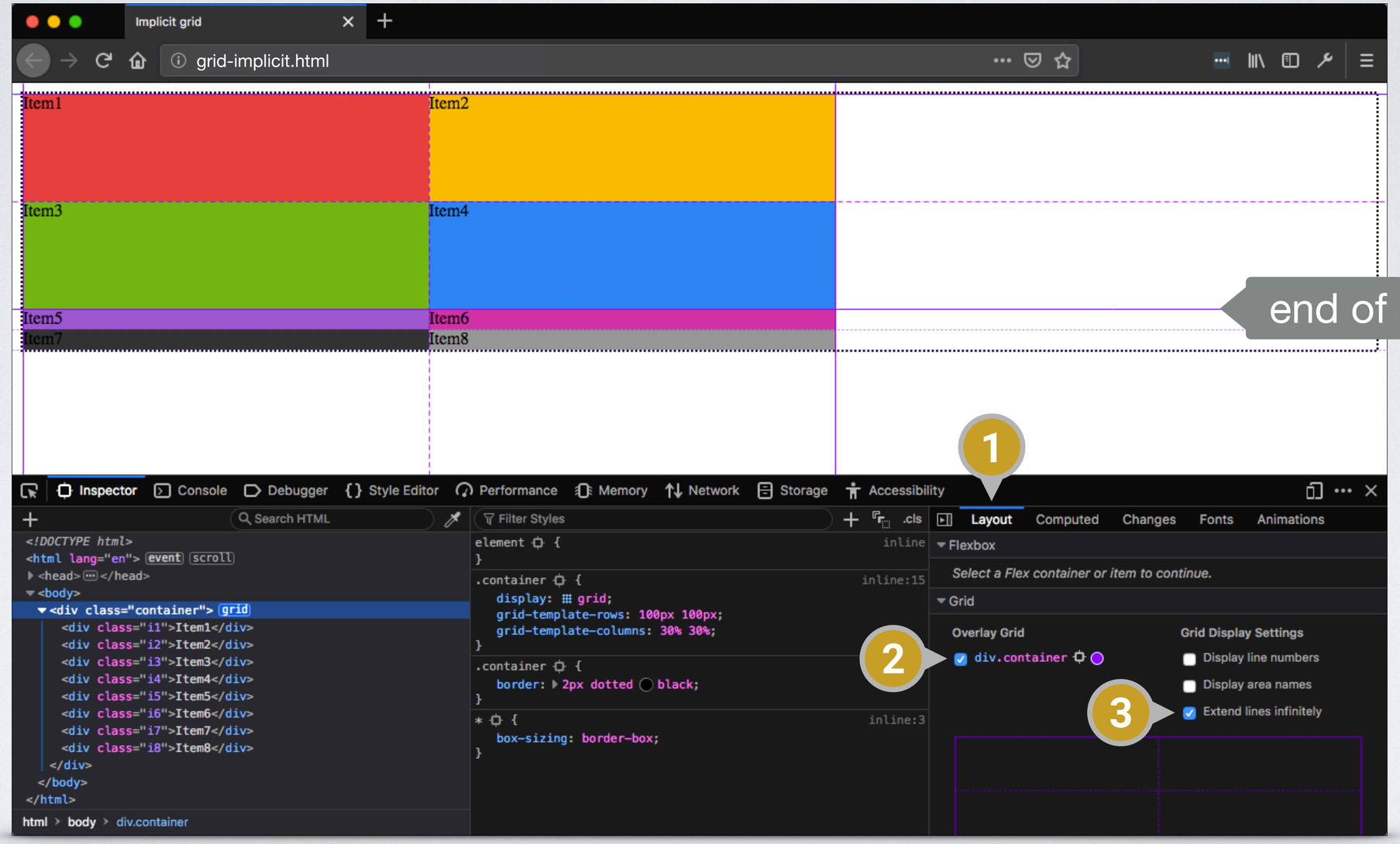
1 2 3 4

Browser



implicit row (height: auto)

IMPLICIT GRID: FIREFOX GRID INSPECTOR



“You can also define a set size for tracks created in the implicit grid with the **`grid-auto-rows`** and **`grid-auto-columns`** properties.”

— 

SOURCE: Basic concepts of grid layout by MDN.

IMPLICIT GRID: AUTO ROWS & COLUMNS

READY TO USE CODE

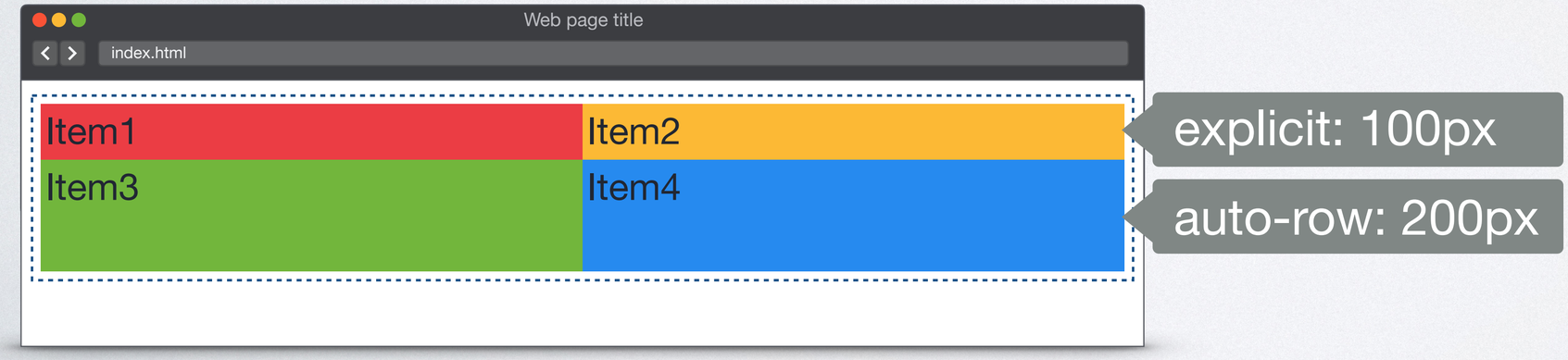
HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
</div>
</body>
```

CSS

```
.container {
  display: grid;
  grid-template: 100px / 50% 50%;
  grid-auto-rows: 200px;
}
```

Browser



IMPLICIT GRID: AUTO ROWS & COLUMNS

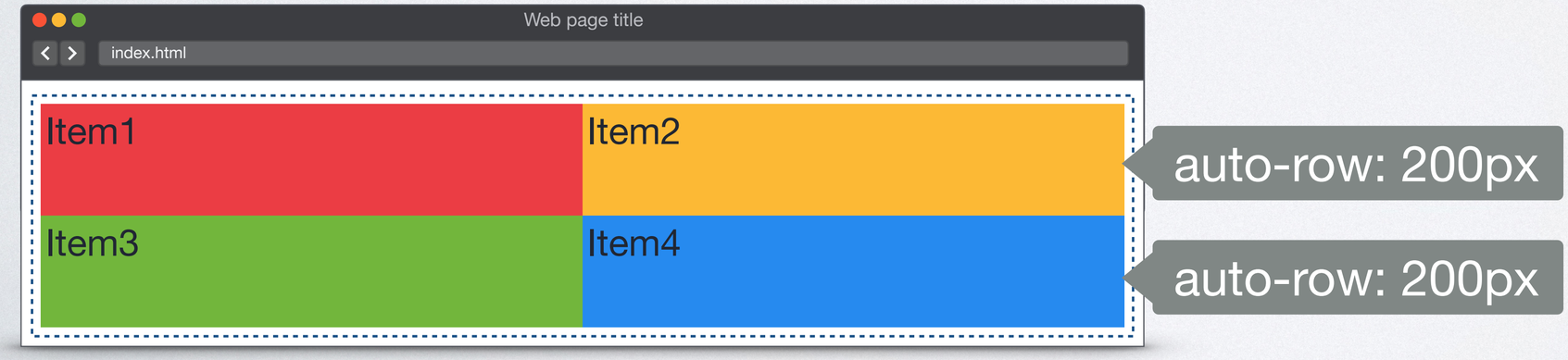
HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
</div>
</body>
```

CSS

```
.container {
  display: grid;
  grid-auto-rows: 200px;
  grid-template-columns: 50% 50%;
}
```

Browser



IMPLICIT GRID: AUTO ROWS & COLUMNS

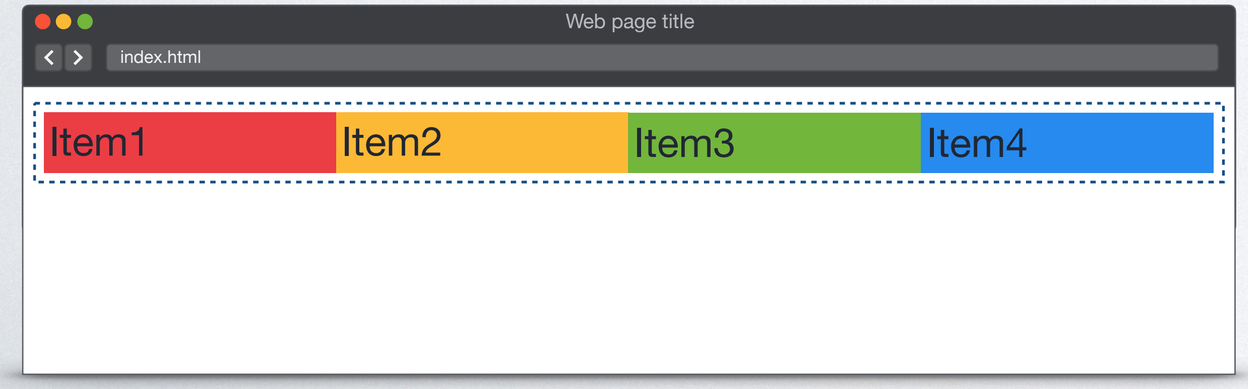
HTML

```
<body>
<div class="container">
  <div>Item1</div>
  <div>Item2</div>
  <div>Item3</div>
  <div>Item4</div>
</div>
</body>
```

CSS

```
.container {
  display: grid;
  grid-auto-flow: column;
}
```

Browser



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