

CSS

CSS FUNDAMENTALS

LAYOUT

CSS Grid

Fraction / Minmax / Repeat



IN A ROCKET

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FRACTION

~ ~ ~

“The **fr unit** represents a fraction of the leftover space in the grid container. Tracks sized with fr units are called **flexible tracks.**”



SOURCE: CSS Grid Layout Module Level 1 by W3C.

FRACTION

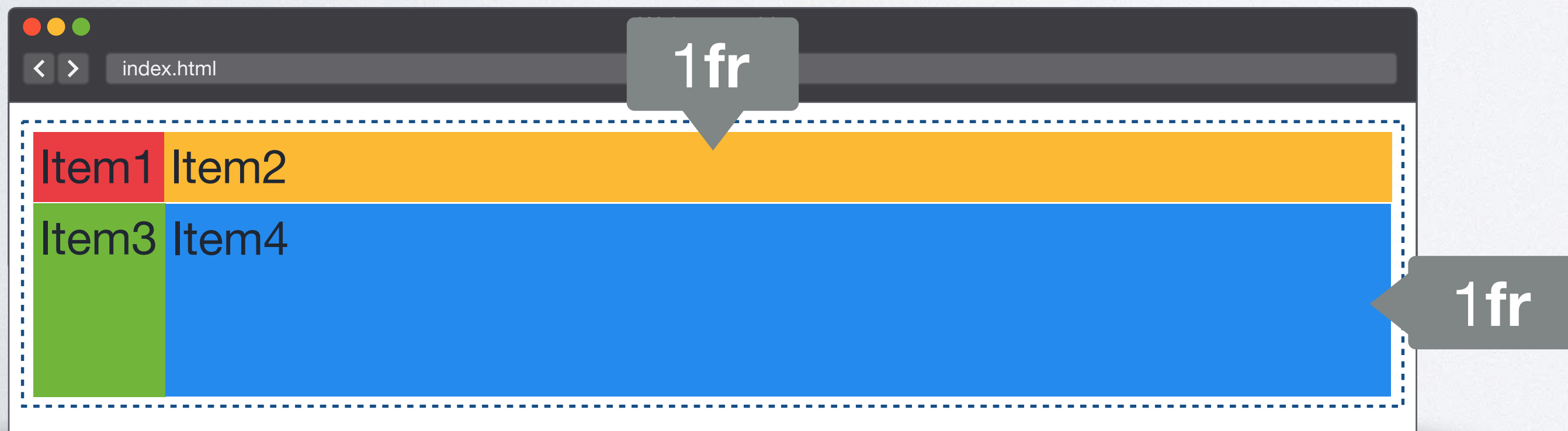
HTML

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

CSS

```
.container {
  display: grid;
  height: 100vh;
  grid-template-rows: 2rem 1fr;
  grid-template-columns: 4rem 1fr;
}
```

Browser



FRACTION

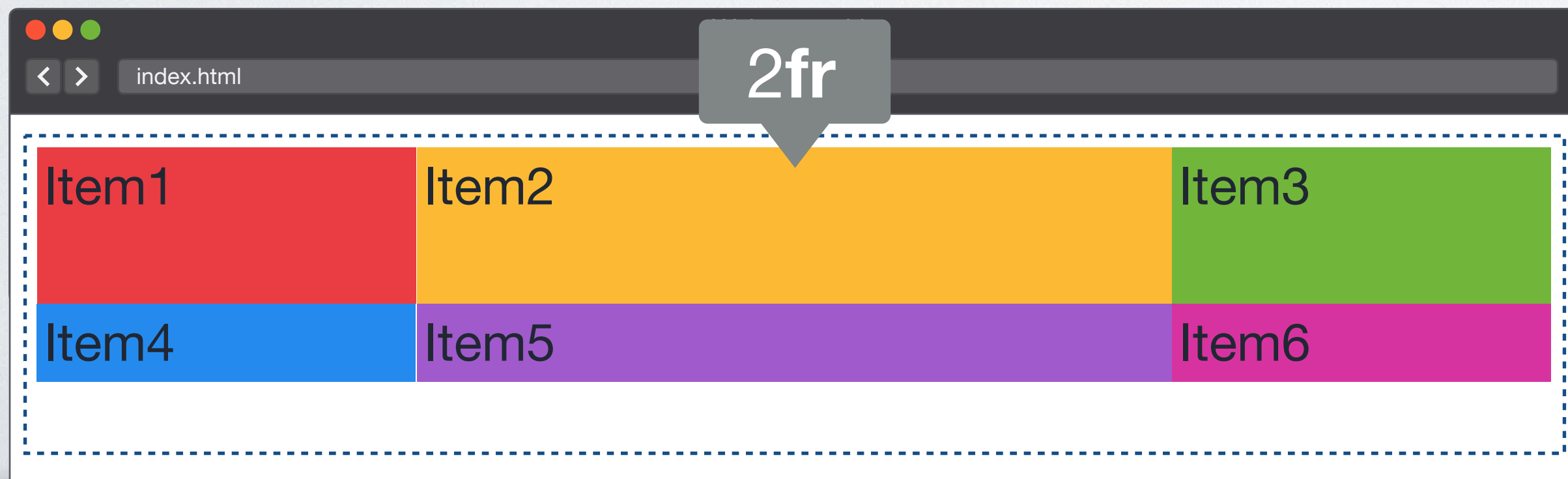
HTML

```
<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;
  height: 100vh;
  grid-template-rows: 5rem auto;
  grid-template-columns: 1fr 2fr 1fr;
}
```

Browser



MINMAX

~ ~ ~

grid-template-rows:
grid-template-columns: } **minmax**(*minsize*, *maxsize*)

```
grid-template-rows: minmax(10rem, auto);
```

Minimum height:
10rem.

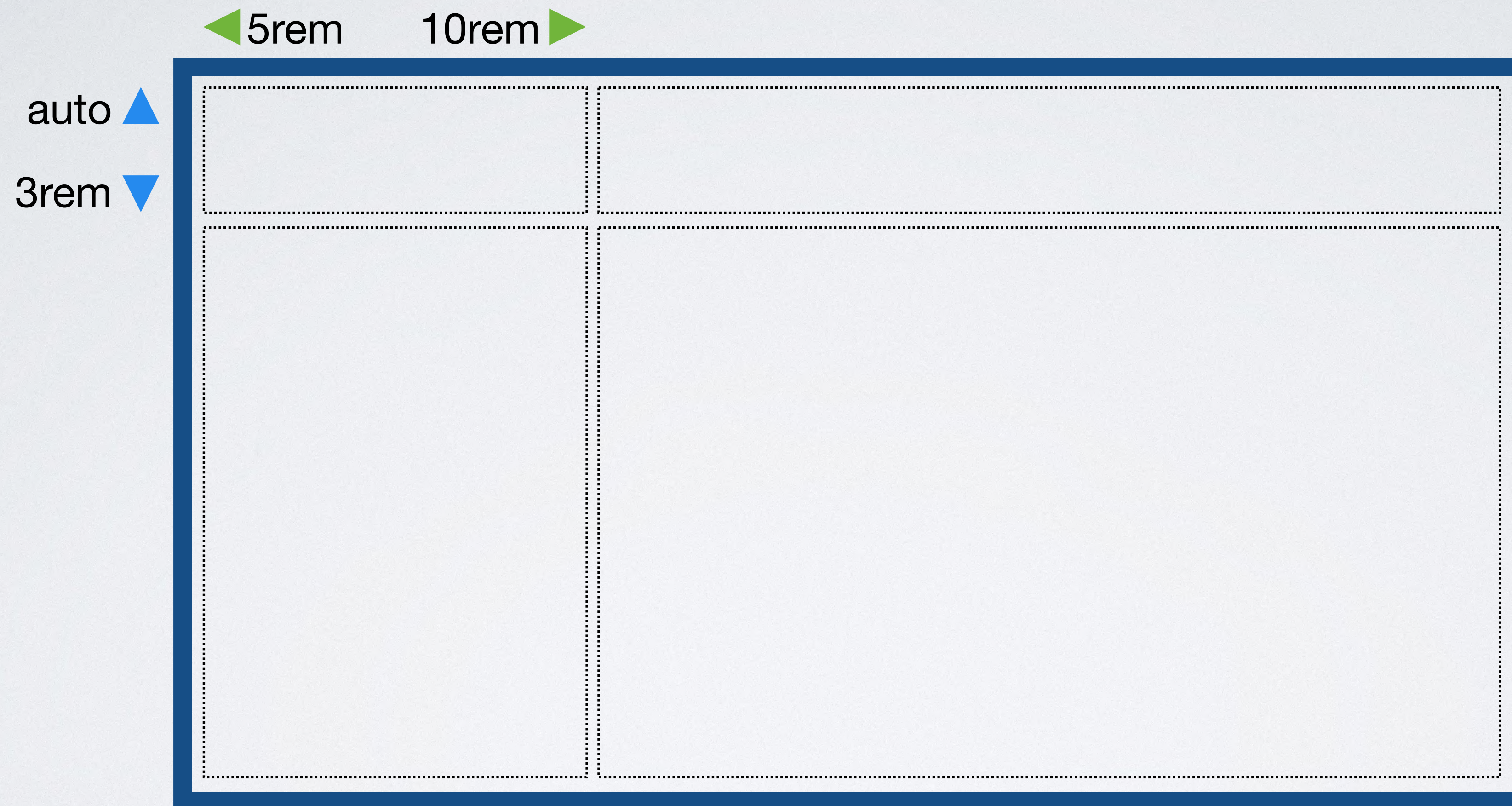
Content

Maximum height:
auto.

Will grow if the
content is taller than
10rem.



```
grid-template-columns: minmax(5rem, 10rem) 1fr;  
grid-template-rows: minmax(auto, 3rem) 1fr;
```



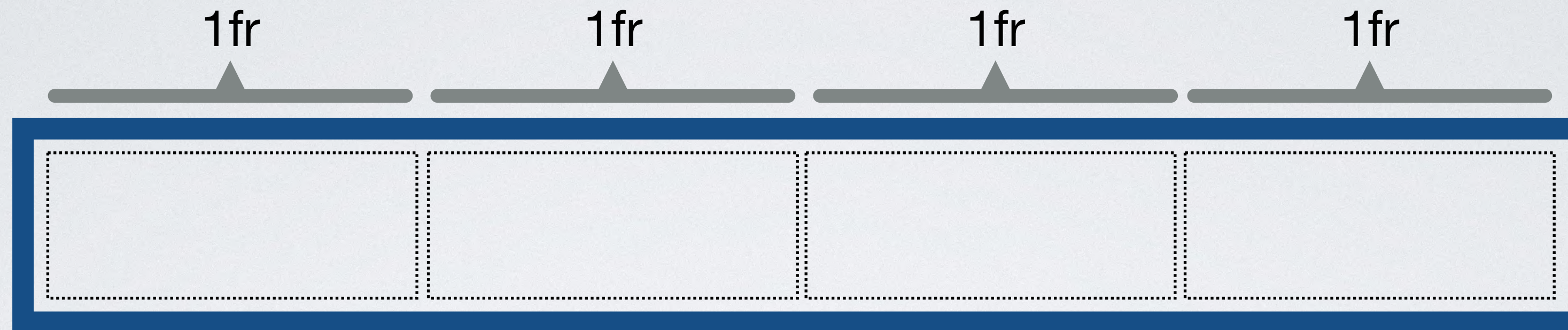
REPEAT

~ ~ ~

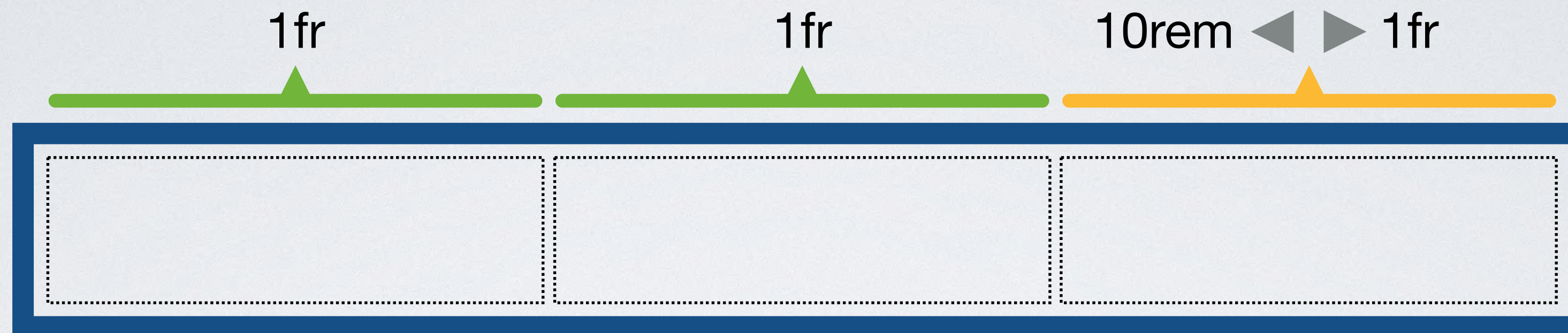
grid-template-rows:
grid-template-columns: } **repeat**(*repetitions*, *track_list*)

grid-template-rows: 1fr 1fr 1fr
= **repeat**(3, 1fr)

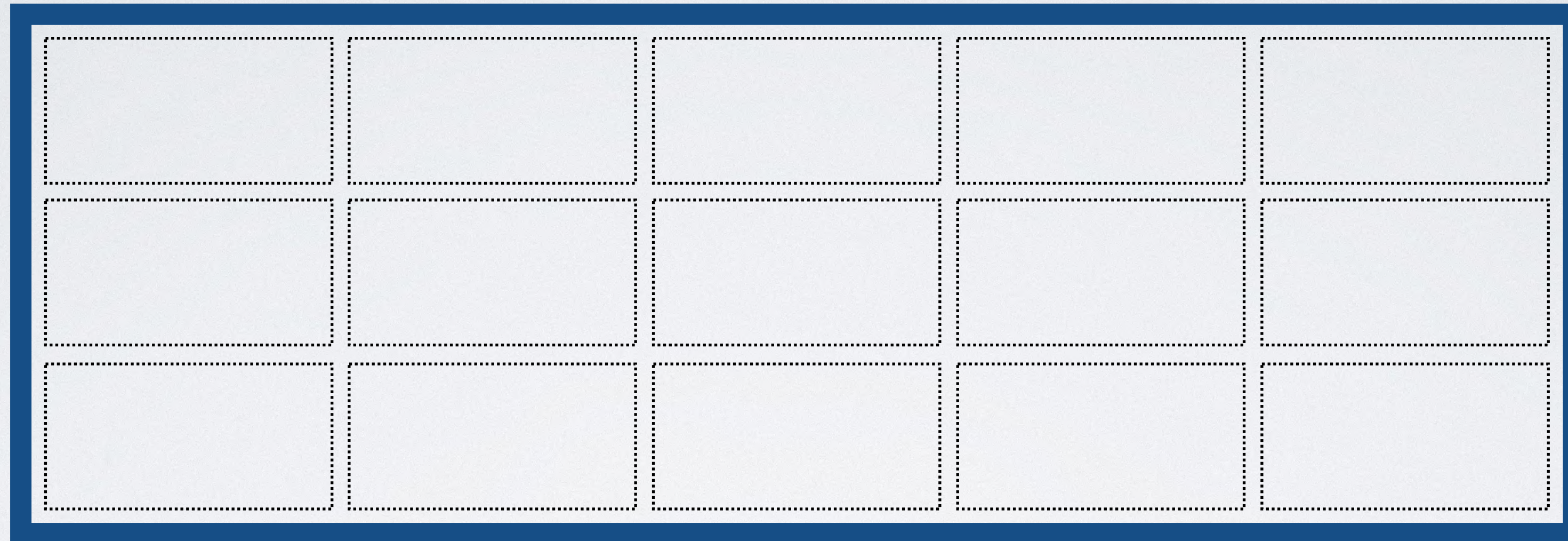
```
grid-template-columns: repeat(4, 1fr);
```



```
grid-template-columns: repeat(2, 1fr) minmax(10rem, 1fr);
```



```
grid-template: repeat(3, 1fr) / repeat(5, 1fr);
```



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