

Grid

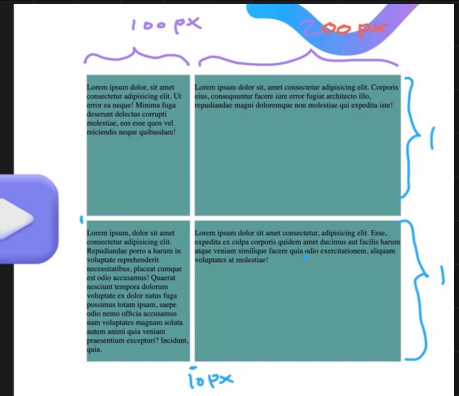
Display: Grid

Set up :

```
<div class="container">
  <p>...</p>
  <p>...</p>
  <p>...</p>
  <p>...</p>
</div>
```

styles.css

```
.container {
  display: grid;
  grid-template-columns: 1fr 2fr;
  grid-template-rows: 1fr 1fr;
  gap: 10px;
}
```



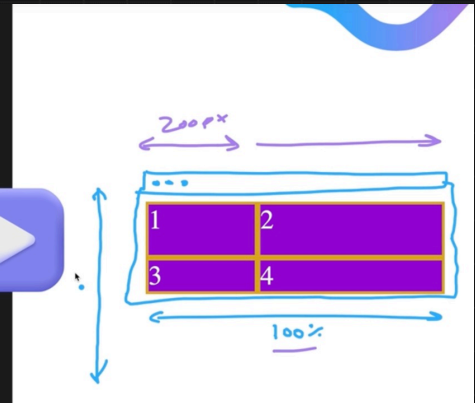
Grid Sizing

Auto :

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

styles.css

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

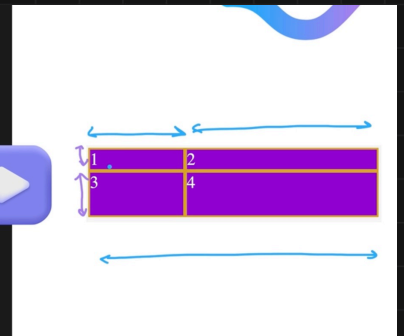


Fractional Size :

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

styles.css

```
.grid-container {
  display: grid;
  grid-template-rows: 1fr 2.5fr;
  grid-template-columns: 1fr 2fr;
}
```



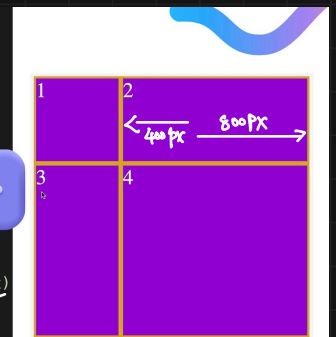
1st row and column
always stay half size
of 2nd row and column

MinMax Size :

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

styles.css

```
.grid-container {
  display: grid;
  grid-template-rows: 200px 400px;
  grid-template-columns: 200px minmax(400px, 800px);
}
```



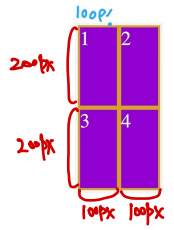
2nd column min : 400px
max : 800px

repeat function . $\text{repeat}(2, 200\text{px}) = 200\text{px} \times 200\text{px}$

of repeat size

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

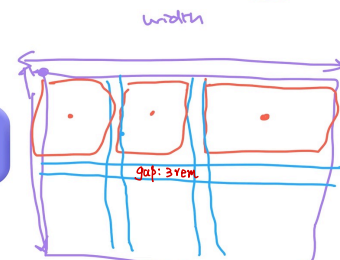
styles.css
.grid-container {
  display: grid;
  grid-template-rows: repeat(2, 200px);
  grid-template-columns: repeat(2, 100px);
}
grid-auto-rows: 50px
```



Grid Item Placement

```
<div class="container">
  <div class="item cowboy">🤠</div>
  <div class="item astronaut">🚀</div>
  <div class="item book">📖</div>
</div>

styles.css
.container {
  height: 100vh;
  display: grid;
  gap: 3rem;
  grid-template-columns: 1fr 1fr 1.5fr;
  grid-template-rows: 1fr 1fr;
}
```



Grid { display: grid { grid-template-rows: 1fr 2fr
grid-template-columns: 1fr 2fr
grid sizing { px: fixed size
auto: size based on contents enlarge or shrink
minmax(): size range from ... to ...
repeat function: $\text{repeat}(2, 200\text{px}) = 200\text{px} \times 200\text{px}$
grid item placement: ① grid-rows; ② grid-columns; ③ grid-area: # | # | # | # → column stop