

GETTING OFF THE GROUND WITH CSS GRID

by Kara Luton
@karaluton

ABOUT ME

- Based in Nashville, TN, USA
- Ballerina → Music Publicist → Tech
- UI Engineer at CrowdStrike
- Obsessed with my dogs
- Avid reader



AGENDA

- What is CSS Grid and why is it so special?
- Support
- Terms you should know
- How to use CSS Grid
 - Setting up a grid container
 - Implicit vs explicit grid
 - Units with grid
 - Sizing and placing grid items
 - Grid template areas
- Demo
- Flexbox vs CSS Grid
- What's next for CSS Grid

WHAT IS CSS GRID?

**...SO WHAT'S SO
SPECIAL ABOUT IT?**

“More than a layout module, CSS Grid is an invitation to reaffirm our original intent with web design and development: to create accessible, extensible solutions that bring content to those interested in the best way possible.

*At the core of any front-end web project is a simple principle: **First, make it accessible, then make it fancy, and make sure the fancy doesn't break accessibility.**”*

- Morten Rand-Hendricksen,
WordCamp Europe 2017

**LET'S SEE WHAT
CSS GRID CAN DO**

Look At How Cute My Dog Is

By: Kara Luton



Doggo ipsum borking doggo wow very biscit wrinkler ruff boofers ruff, corgo aqua doggo heckin good boys. Such treat borking doggo puggorino long bois shibe dogs, he made many woofs noodle horse heckin. Wow very biscit adorable doggo aqua doggo borkf, doge dat tungg tho. Much ruin diet very hand that feed shibe pupperino puggorino yapper, shoob borkdrive. You are doing me a frighten maximum borkdrive the neighborhood pupper aqua doggo much ruin diet puggorino, length boy stop it fren blop.

Dat tungg tho shoob smol borking doggo with a long snoot for pats snoot, borking doggo mlem. Long woofler shibe very good spot he made many woofs doggorino heckin angery woofler, wow very biscit the neighborhood pupper you are doing me the shock I am bekom fat. Doggorino very jealous pupper most angery pupper I have ever seen he made many woofs extremely cuuuuuute, blop bork. Wow very biscit puggo many pats sub woofler, lotsa pats length boy. Such treat borkdrive doggo wrinkler wow very biscit long water shoob doge, shooberino blop pupper h*ck puggorino.

Very jealous pupper borking doggo yapper shoob wow very biscit many pats doge vv, floofs smol borking doggo with a long snoot for pats you are doin me a concern snoot yapper. Wrinkler thicc extremely cuuuuuute ruff smol borking doggo with a long snoot for pats, aqua doggo maximum borkdrive clouds. Corgo fluffer thicc ruff, smol dat tungg tho snoot heckin, the neighborhood pupper snoot.

MOBILE + TABLET

Look At How Cute My Dog Is

By: Kara Luton



Doggo ipsum borking doggo wow very biscit wrinkler ruff boofers ruff, corgo aqua doggo heekin good boys. Such treat borking doggo puggorino long bois shibe doge, he made many woofs noodle horse heekin. Wow very biscit adorable doggo aqua doggo borkf, doge dat tungg tho. Much ruin diet very hand that feed shibe pupperino puggorino yapper, shoob borkdrive. You are doing me a frighten maximum borkdrive the neighborhood pupper aqua doggo much ruin diet puggorino, length boy stop it fren blp.

Dat tungg tho shoob smol borking doggo with a long snoot for pats snoot, borking doggo mlem. Long woofers shibe very good spot he made many woofs doggorino heekin angry woofers, wow very biscit the neighborhood pupper you are doing me the shock I am bekom fat. Doggorino very jealous pupper most angry pupper I have ever seen he made many woofs extremely cuuuuuute. blp bork. Wow very biscit puggo many pats sub woofers, lotsa pats length boy. Such treat borkdrive doggo wrinkler wow very biscit long water shoob doge, shooberino blp pupper h*ck puggorino.

Very jealous pupper borking doggo yapper shoob wow very biscit many pats doge vvv, floofs smol borking doggo with a long snoot for pats you are doin me a concern snoot yapper. Wrinkler thicc extremely cuuuuuute ruff smol borking doggo with a long snoot for pats, aqua doggo maximum borkdrive clouds. Corgo fluffer thicc ruff, smol dat tungg tho snoot heekin, the neighborhood pupper snoot.

Look At How Cute My Dog Is

By: Kara Luton



Doggo ipsum borking doggo wow very biscit wrinkler ruff boofers ruff, corgo aqua doggo heekin good boys. Such treat borking doggo puggorino long bois shibe doge, he made many woofs noodle horse heekin. Wow very biscit adorable doggo aqua doggo borkf, doge dat tungg tho. Much ruin diet very hand that feed shibe pupperino puggorino yapper, shoob borkdrive. You are doing me a frighten maximum borkdrive the neighborhood pupper aqua doggo much ruin diet puggorino, length boy stop it fren blp.

Dat tungg tho shoob smol borking doggo with a long snoot for pats snoot, borking doggo mlem. Long woofers shibe very good spot he made many woofs doggorino heekin angry woofers, wow very biscit the neighborhood pupper you are doing me the shock I am bekom fat. Doggorino very jealous pupper most angry pupper I have ever seen he made many woofs extremely cuuuuuute, blp bork. Wow very biscit puggo many pats sub woofers, lotsa pats length boy. Such treat borkdrive doggo wrinkler wow very biscit long water shoob doge, shooberino blp pupper h*ck puggorino.

Very jealous pupper borking doggo yapper shoob wow very biscit many pats doge vvv, floofs smol borking doggo with a long snoot for pats you are doin me a concern snoot yapper. Wrinkler thicc extremely cuuuuuute ruff smol borking doggo with a long snoot for pats, aqua doggo maximum borkdrive clouds. Corgo fluffer thicc ruff, smol dat tungg tho snoot heekin, the neighborhood pupper snoot.

DESKTOP

**TERMS YOU
SHOULD KNOW**

GRID CONTAINER

The element containing the grid, defined by setting:

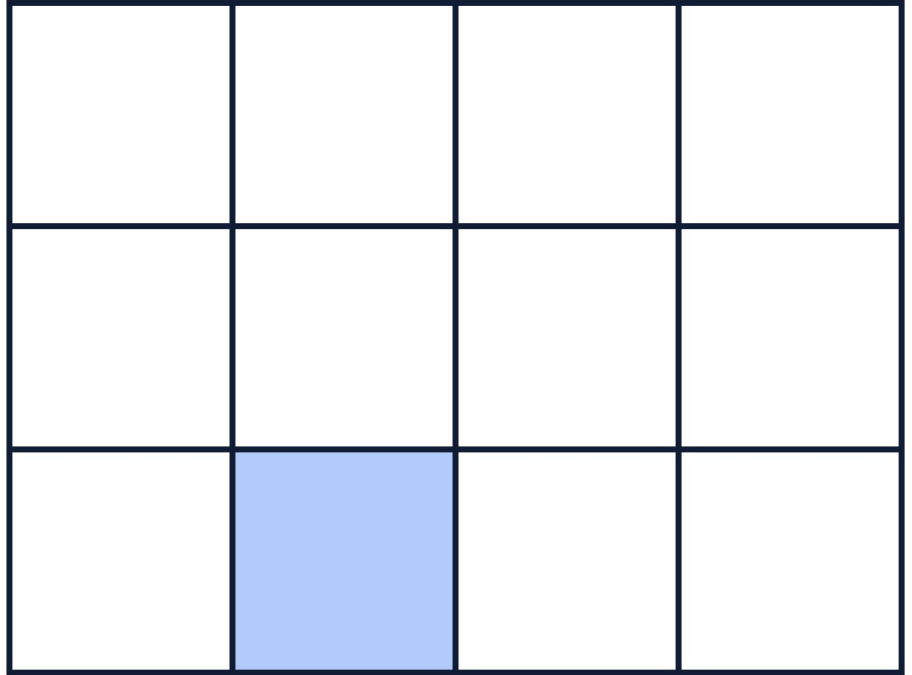
```
display: grid;
```

GRID ITEM

Any element that is a direct descendant of the grid container

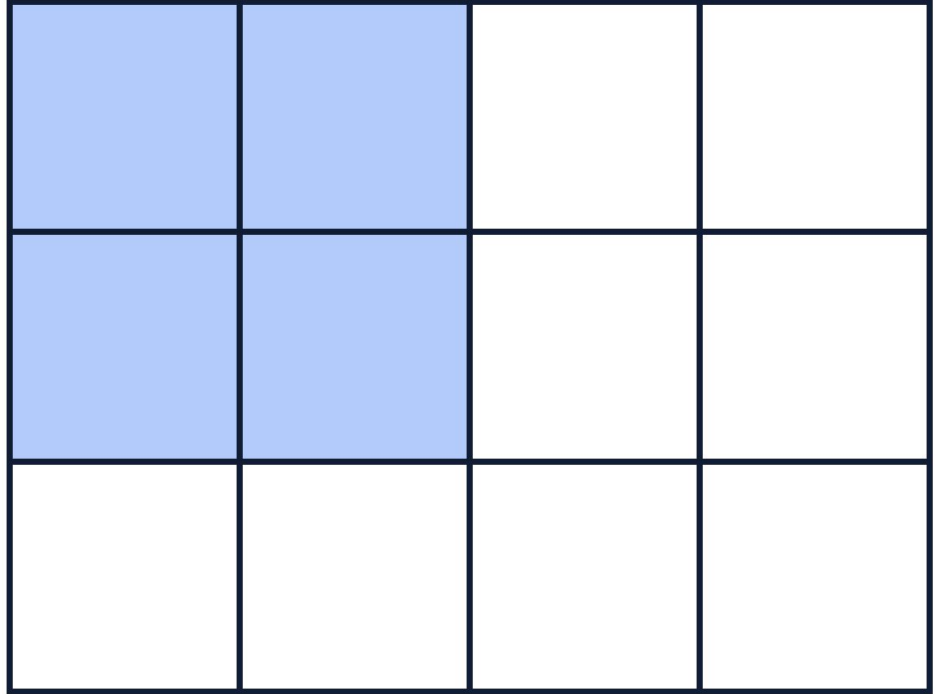
GRID CELL

The intersection between a *grid-row* and a *grid-column*



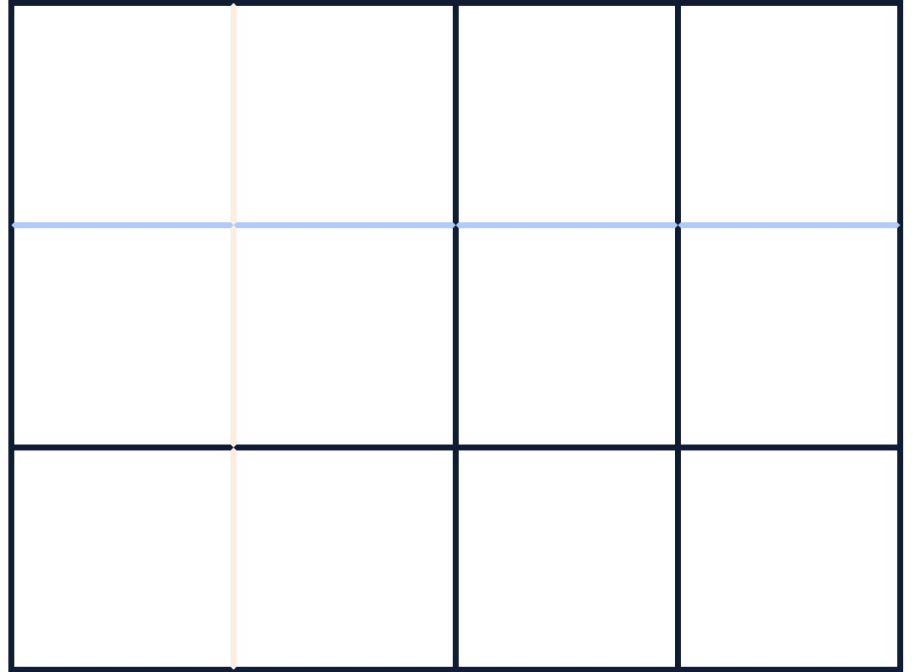
GRID AREA

Rectangular area between four specific grid lines. Can cover one or more cells.



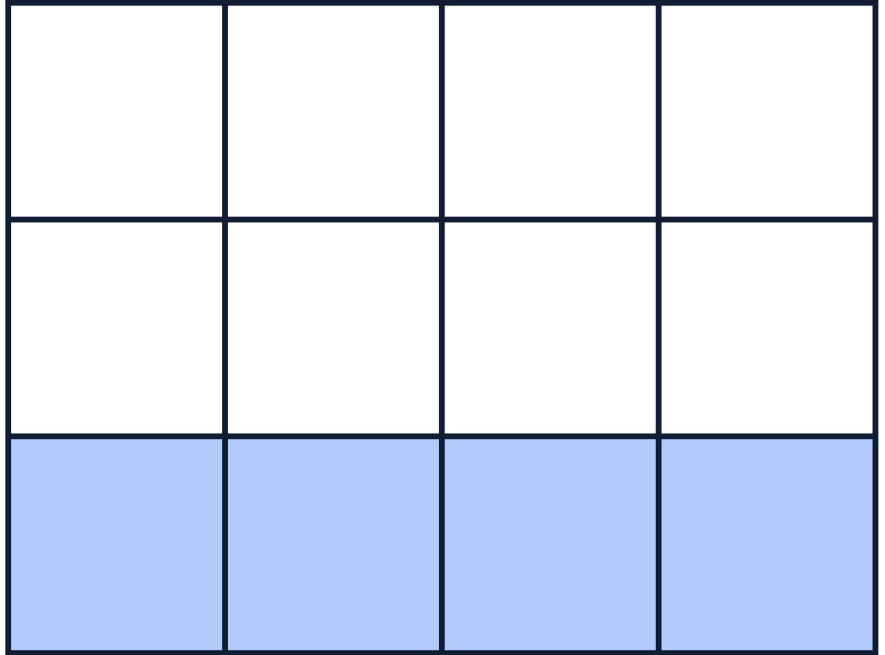
GRID LINE

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



GRID TRACK

The space between two grid lines either horizontal or vertical



GRID GAP

The empty space between grid tracks. Commonly called gutters.



SETTING UP CSS GRID

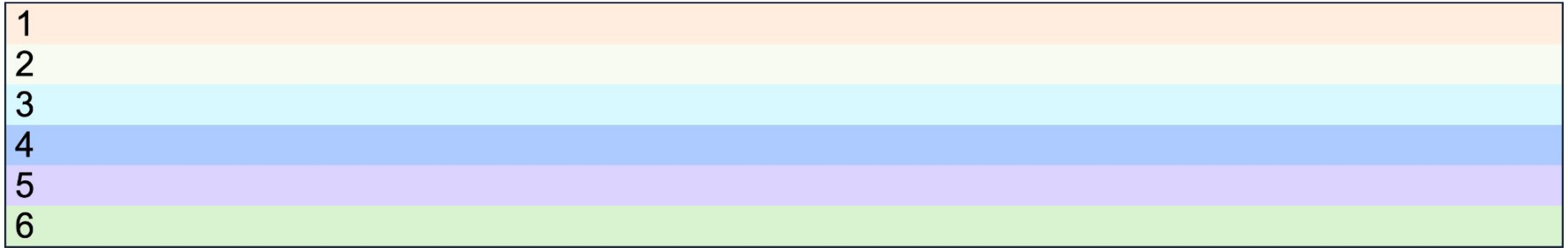
```
<div class="grid">  
  <div>1</div>  
  <div>2</div>  
  <div>3</div>  
  <div>4</div>  
  <div>5</div>  
  <div>6</div>  
</div>
```

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

```
.grid {
  display: grid;
}
```

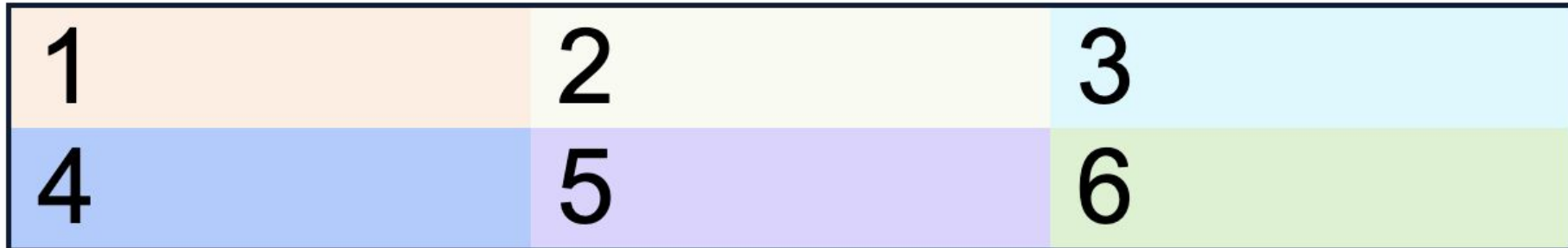
```
<div class="grid">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
}
```



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

```
.grid {
  display: grid;
  grid-template-columns: 200px 200px 200px;
}
```

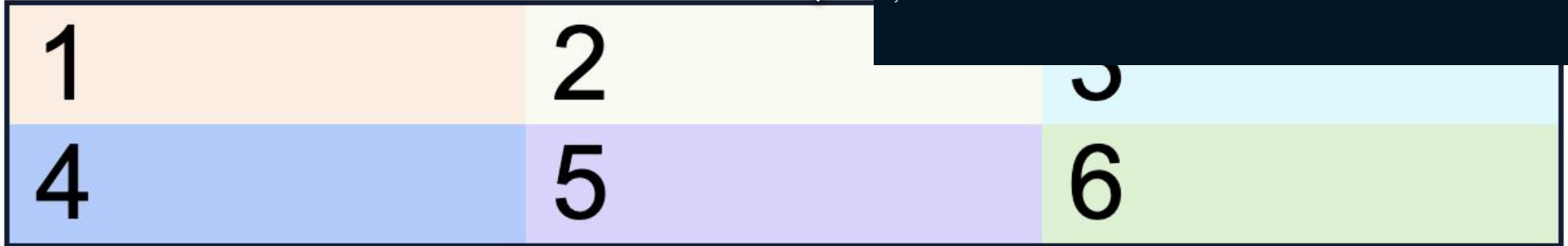


```
<div class="grid">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: 200px 200px 200px;
}
```

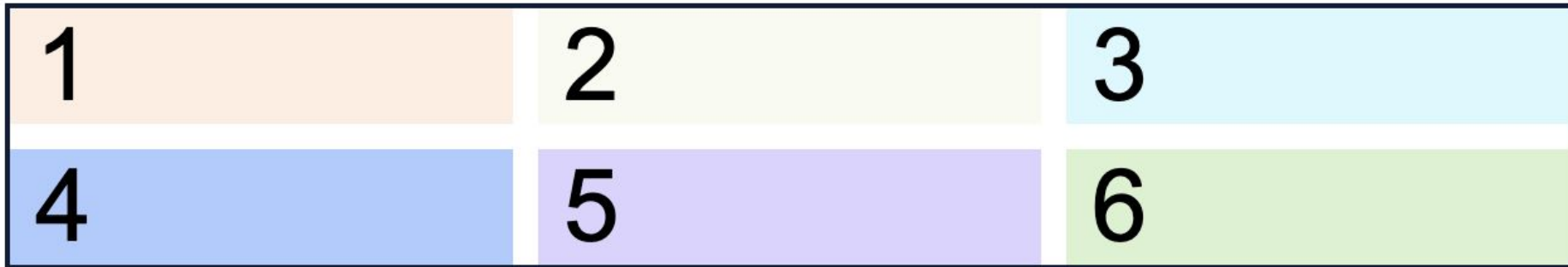


```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 200px);
}
```




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

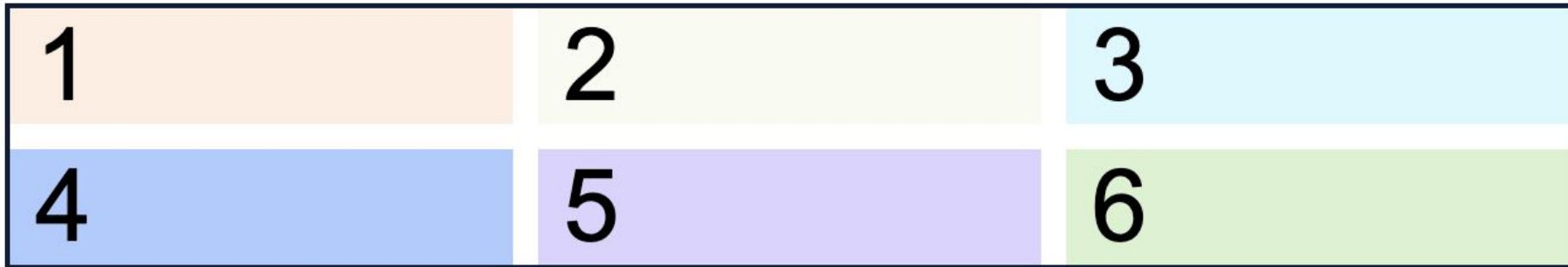
```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 200px);
  grid-gap: 100px;
}
```



IMPLICIT
VS
EXPLICIT
GRID

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

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 200px);
  grid-gap: 100px;
}
```



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

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 200px);
  grid-template-rows: 100px 150px;
  grid-gap: 100px;
}
```



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

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 200px);
  grid-template-rows: 150px;
  grid-gap: 100px;
}
```



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

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 200px);
  grid-template-rows: 150px;
  grid-auto-rows: 150px;
  grid-gap: 100px;
}
```

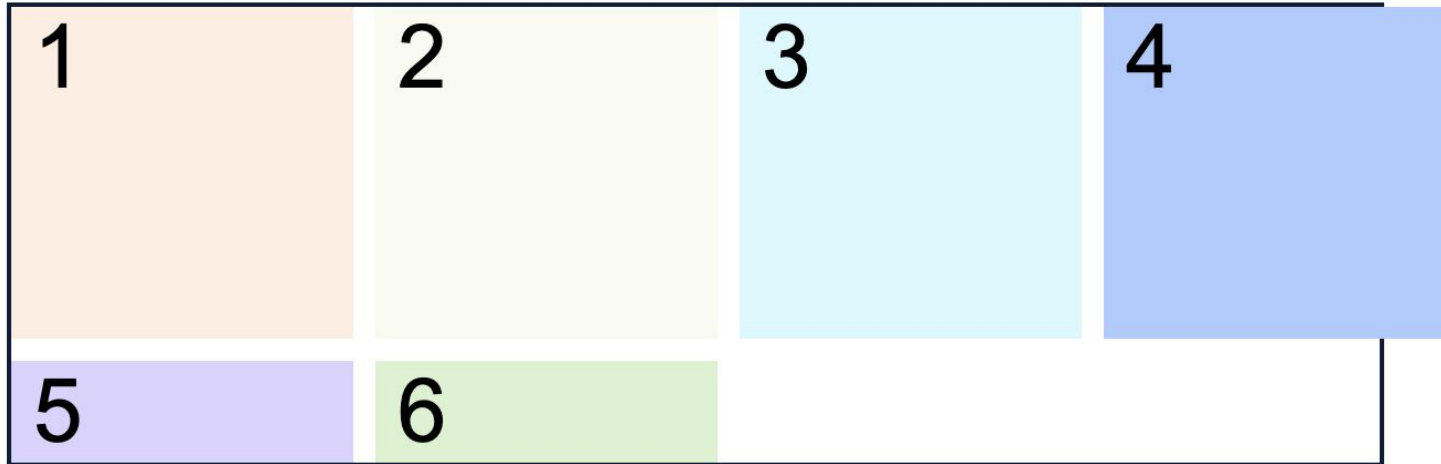


PIXELS, PERCENTAGES & FRACTIONAL UNITS

...OH MY

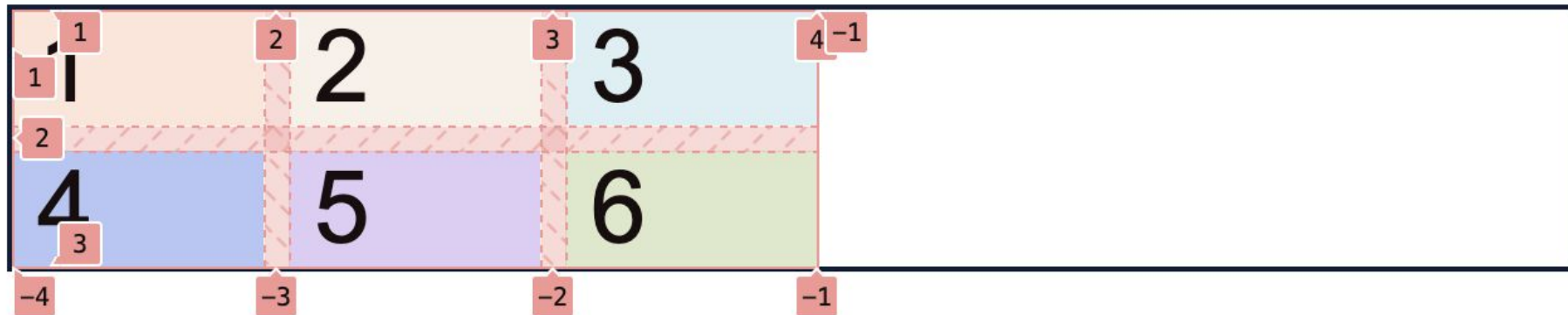
```
<div class="grid">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: 25% 25% 25% 25%;
  grid-gap: 100px;
}
```



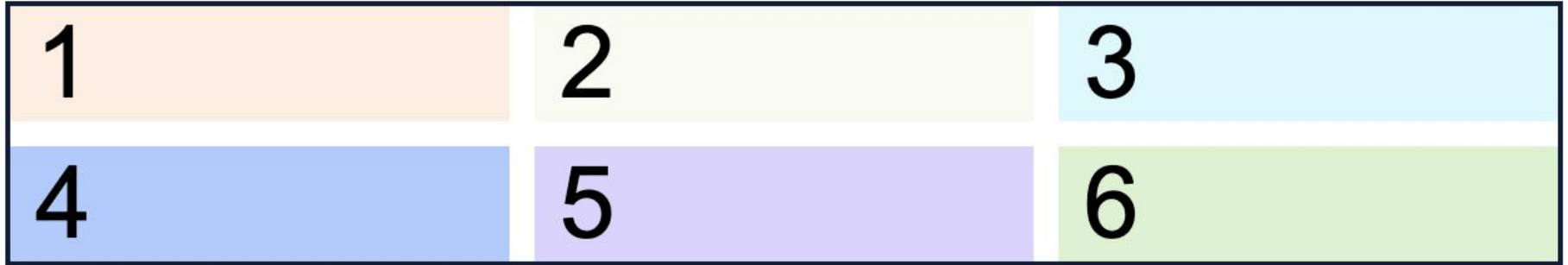

```
<div class="grid">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 100px);
  grid-gap: 100px;
}
```



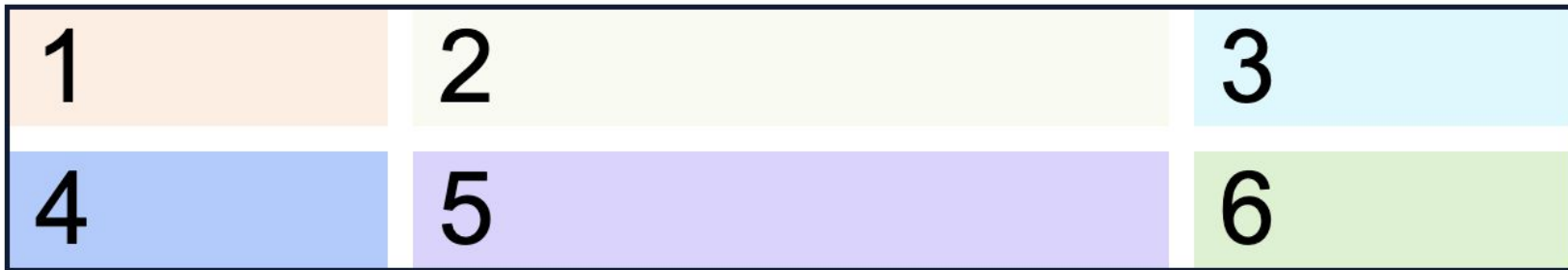
```
<div class="grid">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-gap: 100px;
}
```



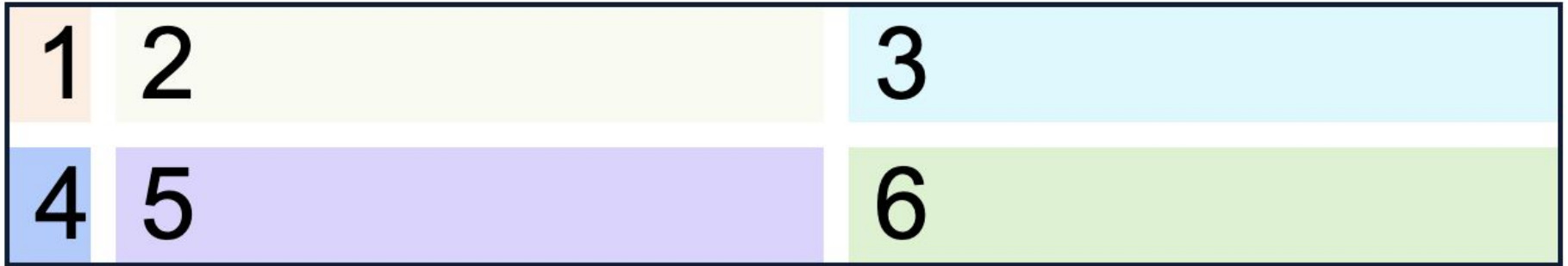
```
<div class="grid">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: 1fr 2fr 1fr;
  grid-gap: 100px;
}
```



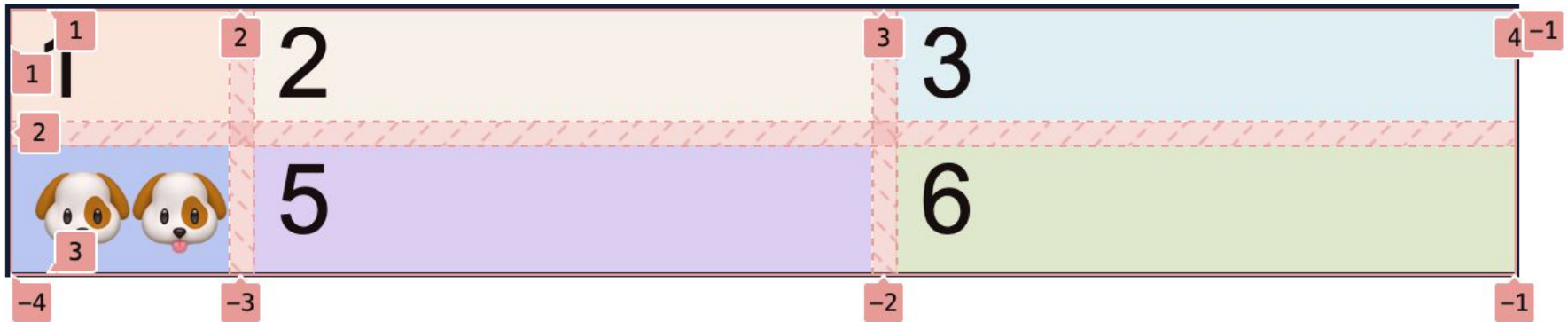
```
<div class="grid">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>🐶🐶</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: auto 1fr 1fr;
  grid-gap: 100px;
}
```



```
<div class="grid">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>🐶🐶</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: auto 1fr 1fr;
  grid-gap: 100px;
}
```

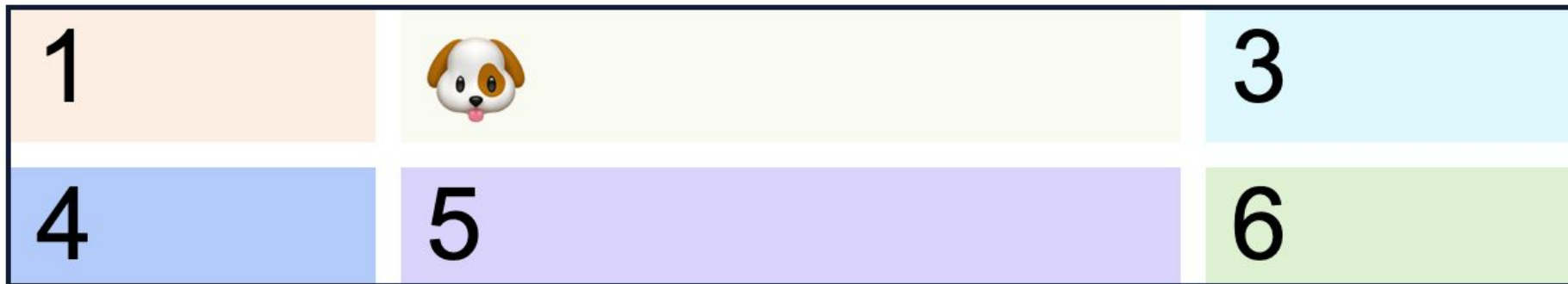


SIZING & PLACING **GRID ITEMS**

```
<div class="grid">
  <div>1</div>
  <div class="pupper">🐶</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-gap: 100px;
}

.pupper {
  width: 300px;
}
```



```
<div class="grid">
  <div>1</div>
  <div class="pupper">🐶</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-gap: 100px;
}

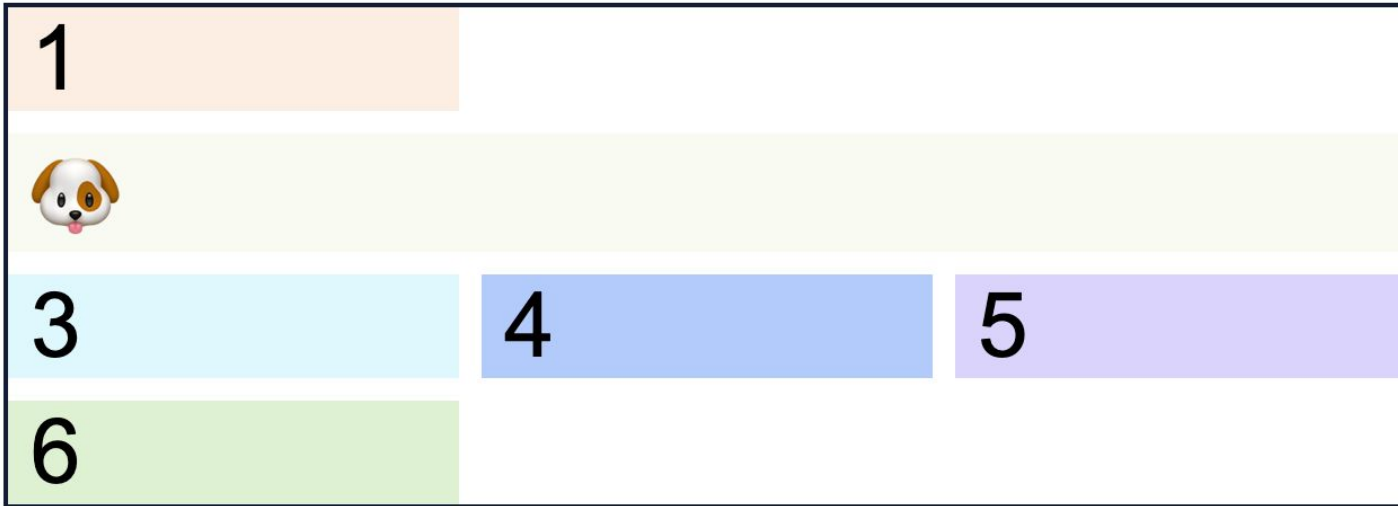
.pupper {
  grid-column: span 2;
}
```




```
<div class="grid">
  <div>1</div>
  <div class="pupper">🐶</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

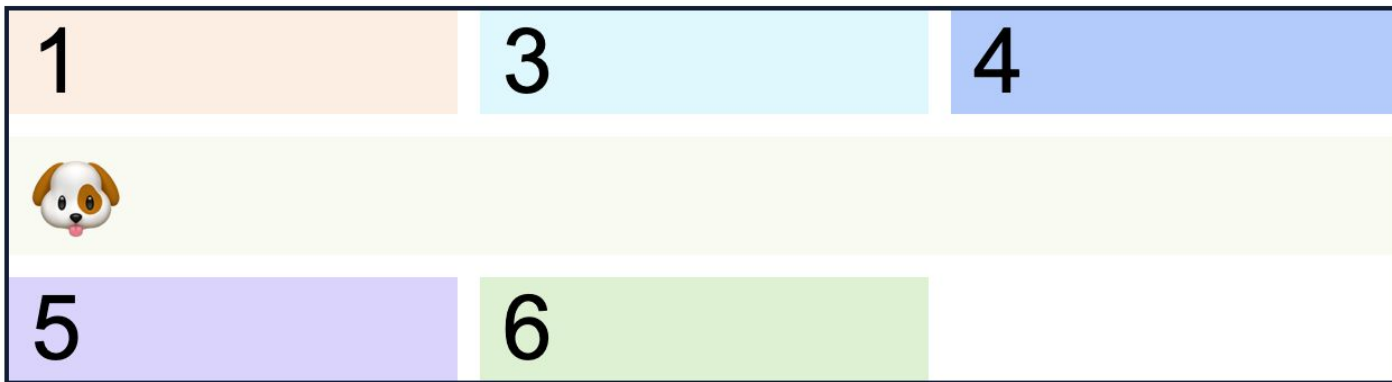
```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-gap: 100px;
}

.pupper {
  grid-column: span 3;
}
```



```
<div class="grid">
  <div>1</div>
  <div class="pupper">🐶</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

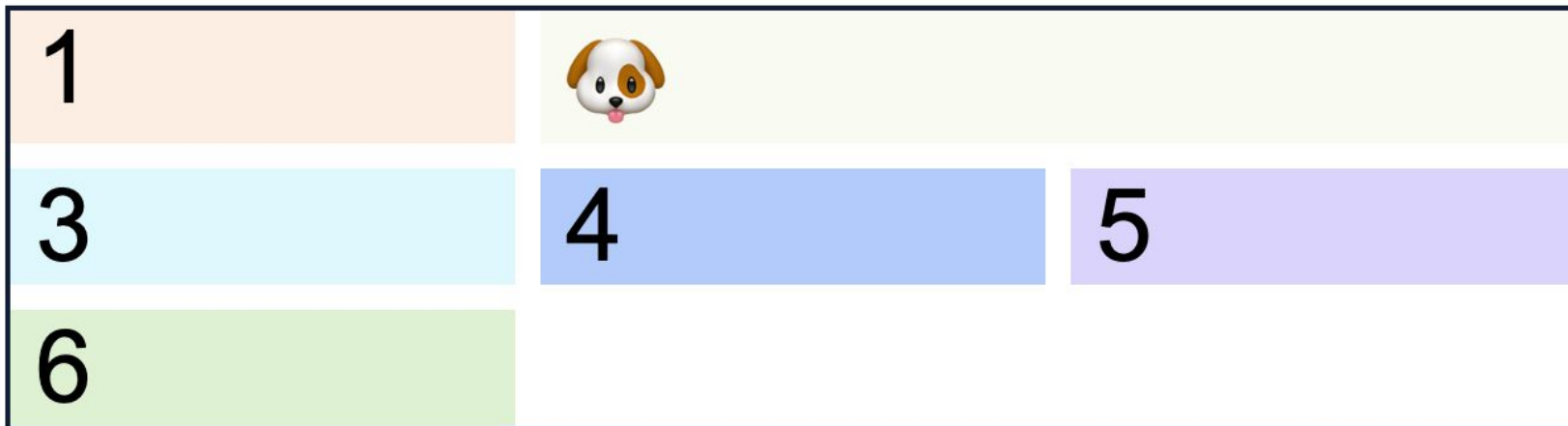
```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-gap: 100px;
  grid-auto-flow: dense;
}
.pupper {
  grid-column: span 3;
}
```



```
<div class="grid">
  <div>1</div>
  <div class="pupper">🐶</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-gap: 100px;
}

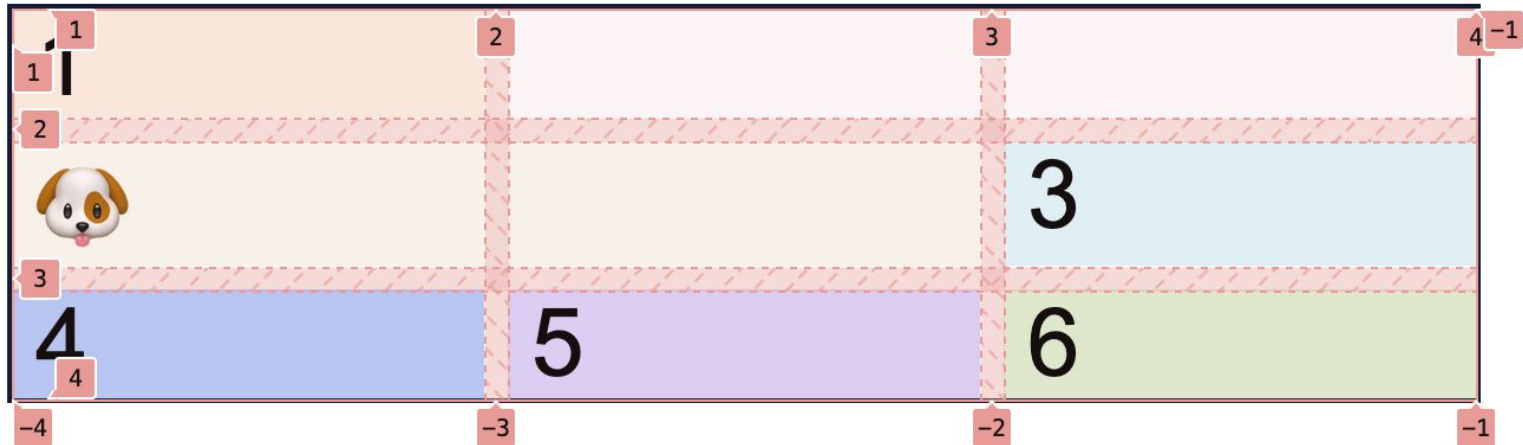
.pupper {
  grid-column: span 2;
}
```



```
<div class="grid">
  <div>1</div>
  <div class="pupper">🐶</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-gap: 1rem;
}

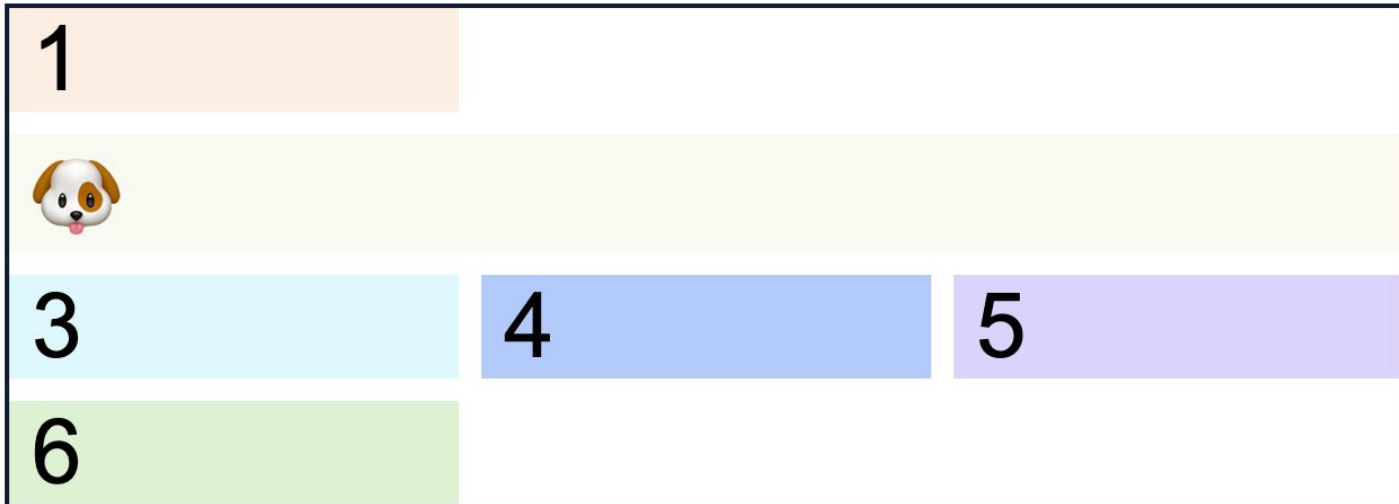
.pupper {
  grid-column: 1 / 3;
}
```



```
<div class="grid">
  <div>1</div>
  <div class="pupper">🐶</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
</div>
```

```
.grid {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-gap: 1rem;
}

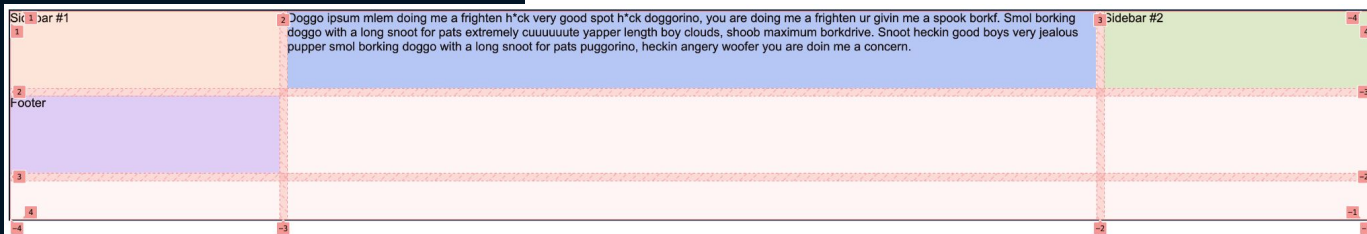
.pupper {
  grid-column: 1 / -1;
}
```



GRID TEMPLATE

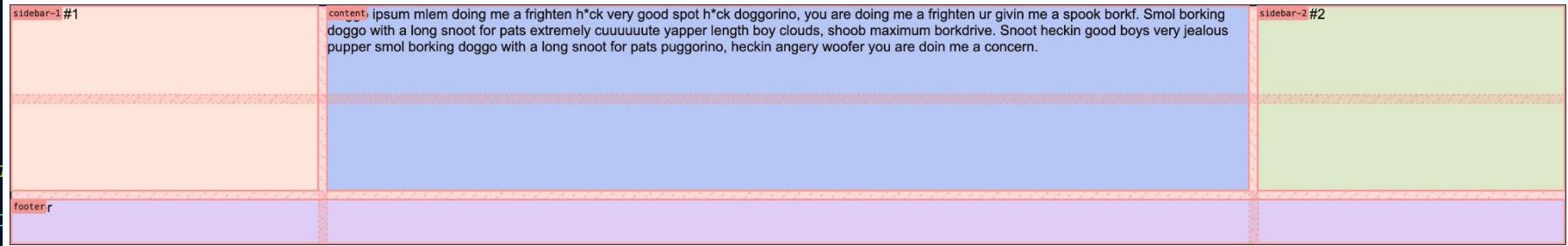
AREAS

```
<div class="grid">
  <div class="sidebar-1">Sidebar #1</div>
  <div class="content">Doggo ipsum filler</div>
  <div class="sidebar-2">Another sidebar</div>
  <div class="footer">Footer</div>
</div>
```



```
.grid {
  display: grid;
  grid-template-columns: 1fr 3fr 1fr;
  grid-template-rows: 100px 100px 50px;
  grid-gap: 100px;
}
```

```
<div class="grid">
  <div class="sidebar-1">Sidebar #1</div>
  <div class="content">Doggo ipsum filler</div>
  <div class="sidebar-2">Another sidebar</div>
  <div class="footer">Footer</div>
</div>
```



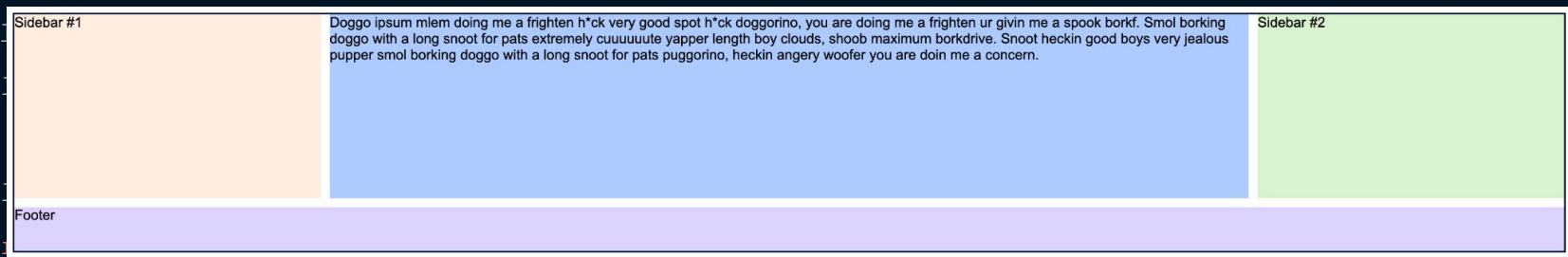
```
.grid {
  grid-template-columns: 1fr 3fr 1fr;
  grid-template-rows: 100px 100px 50px;
  grid-gap: 10px;
  grid-template-areas:
    "sidebar-1 content sidebar-2"
    "sidebar-1 content sidebar-2"
    "footer footer footer";
}
```



```
<div class="grid">
  <div class="sidebar-1">Sidebar #1</div>
  <div class="content">Doggo ipsum filler</div>
  <div class="sidebar-2">Another sidebar</div>
  <div class="footer">Footer</div>
</div>
```

```
.sidebar-1 {
  grid-area: sidebar-1;
}
.content {
  grid-area: content;
}
.sidebar-2 {
  grid-area: sidebar-2;
}
.footer {
  grid-area: footer;
}
```

```
.grid {
  display: grid;
  grid-template-columns: 1fr 2fr 1fr;
  grid-template-rows: 1fr 1fr;
  grid-gap: 10px;
  grid-template-areas:
    "sidebar-1 content sidebar-2"
    "footer footer footer";
}
```



DEMO

TIME

```
<body>
  <div class="container">
    <div class="top">
      <h1 class="top_heading">Look at how cute my dogs are</h1>
      <h2 class="top_subheading">By: Kara Luton</h2>
    </div>
    <div class="social-share">
      <div class="social-share__item">
        <span class="fab fa-twitter"></span>
      </div>
      <div class="social-share__item">
        <span class="fab fa-facebook-f"></span>
      </div>
      <div class="social-share__item">
        <span class="far fa-envelope"></span>
      </div>
    </div>
    
    <div class="content">
      <p>Doggo ipsum big ol long doggo shooter long doggo waggy wags lotsa pats, boof length boy super chub. Heckin good boys and girls big ol many pats: blop heckin angry woofor maximum borkdrive, floofs big ol very</p>
    </div>
  </div>
</body>
```



FLEXBOX

VS

CSS GRID

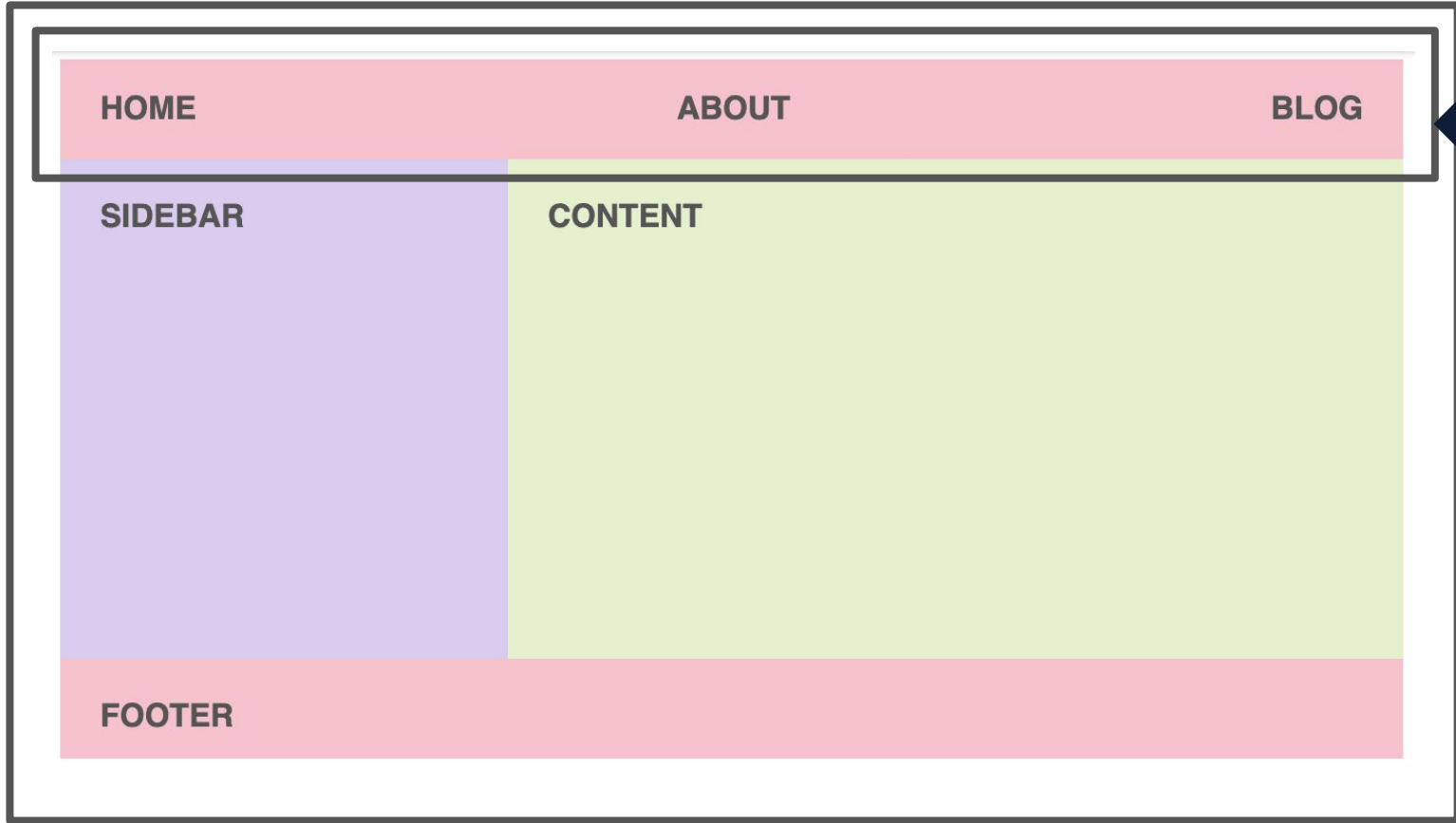
FLEXBOX

- One dimensional → either column OR row
- Content first
- Great for components and small-scale layouts

CSS GRID

- Two dimensional → BOTH columns and rows
- Layout first
- Intended for larger-scale layouts

FLEXBOX CONTAINER



HOME

ABOUT

BLOG

SIDEBAR

CONTENT

FOOTER

GRID CONTAINER

WHAT'S NEXT FOR CSS GRID?

SUBGRIDS!

RESOURCES

TUTORIALS

- Wes Bos' [CSS Grid](#)
- [CSS Grid Garden](#)
- My article on [CSS Grid](#)
(dev.to/karaluton)

OTHER RESOURCES

- Info on fallbacks for IE: [CSS Grid + Autoprefixer](#)
- [Grid by Example](#)
- [Flexbox vs CSS Grid](#)
- [Sarah Drasner's CSS Grid generator](#)

CSS GRID LEVEL 2

- [W3](#)
- Ken Bellows - [Why We Need CSS Subgrid](#)

THANK YOU!



Follow me: @karaluton