

The background features a light blue network pattern of interconnected nodes and lines, resembling a molecular or digital structure. A single diagonal slash is located in the top-left corner.

기초 웹

22 Winter CNU 기초 스터디

21 남정연

21 박준서

CSS Layouts

- Normal Flow
- Display Property
- Flexbox
- Grid
- Floats
- Positioning
- Table Layout
- Multiple-column Layout

Normal Flow

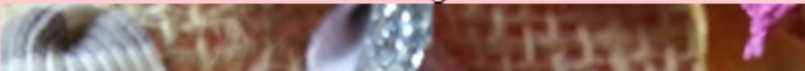
Basic document flow

I am a basic block level element. My adjacent block level elements sit on new lines below me.

By default we span 100% of the width of our parent element, and we are as tall as our child content. Our total width and height is our content + padding + border width/height.

We are separated by our margins. Because of margin collapsing, we are separated by the width of one of our margins, not both.

inline elements `like this one` and `this one` sit on the same line along with adjacent text nodes, if there is space on the same line. Overflowing inline elements will `wrap` onto a new line if possible (like this one containing text), or just go on to a new line if not, much like this image will do:



```
<h1>Basic document flow</h1>
```

```
<p>I am a basic block level element. My adjacent block level elements sit on new lines below me.</p>
```

```
<p>
```

```
  By default we span 100% of the width of our parent element, and we are as tall as our child content.  
  Our total width and height is our content + padding + border width/height.
```

```
</p>
```

```
<p>
```

```
  We are separated by our margins. Because of margin collapsing,  
  we are separated by the width of one of our margins, not both.
```

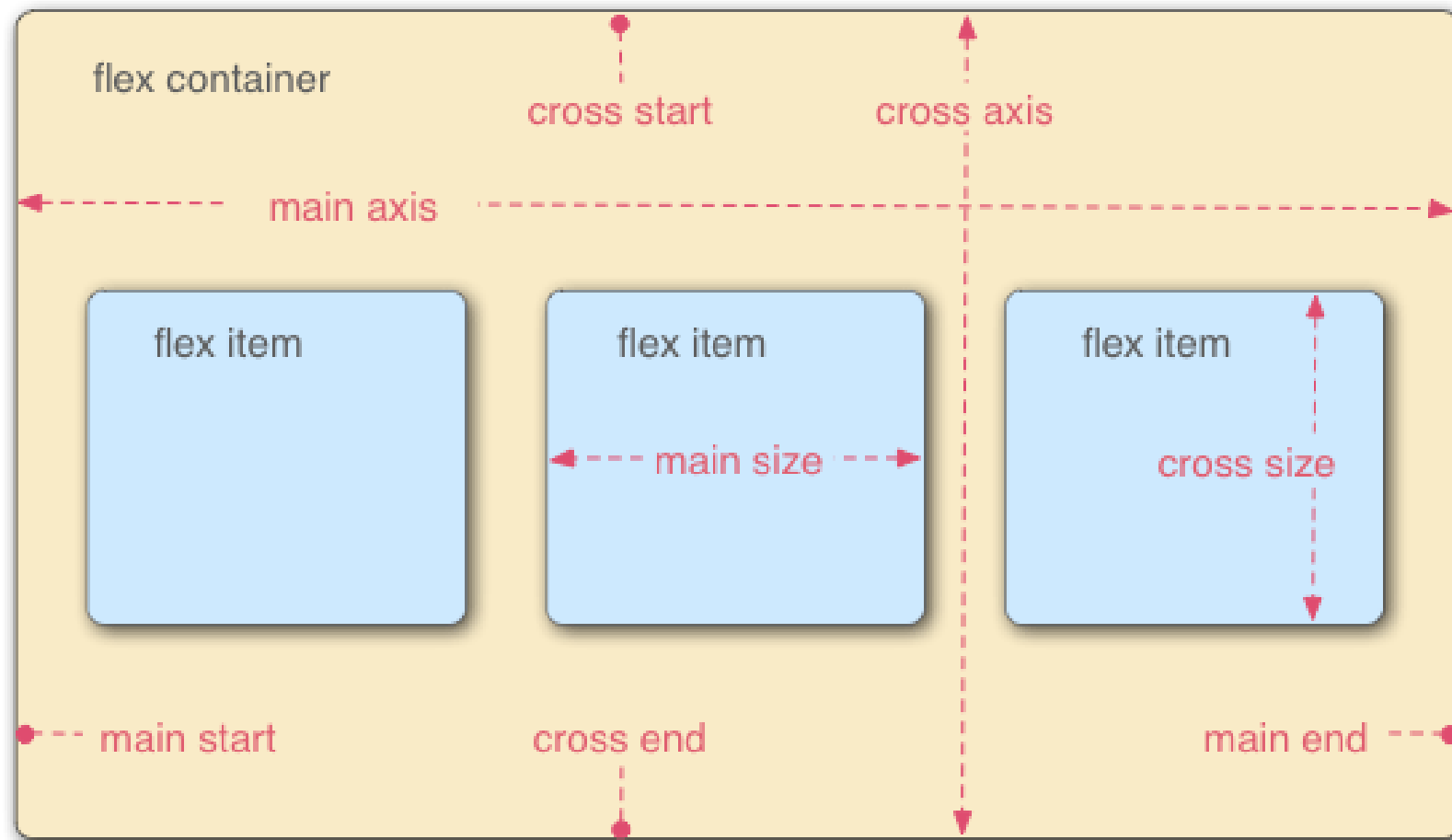
```
</p>
```

```
<p>
```

```
  inline elements <span>like this one</span> and <span>this one</span> sit on the same line along  
  with adjacent text nodes, if there is space on the same line. Overflowing inline elements will  
  <span>wrap onto a new line if possible (like this one containing text)</span>, or just go on to  
  a new line if not, much like this image will do: 
```

```
</p>
```

Flexbox



Flexbox

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

Second article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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Cray food truck brunch, XOXO +1 keffiyeh pickled chambray waistcoat ennui. Organic small batch paleo 8-bit. Intelligentsia umami wayfarers pickled, asymmetrical kombucha letterpress kitsch leggings cold-pressed squid chartreuse put a bird on it. Listicle pickled man bun cornhole heirloom art party.

Flexbox

```
section {  
  display: flex;  
}
```

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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Third article

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flex-direction

```
section {  
  display: flex;  
  flex-direction: row;  
}
```

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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flex-direction

```
section {  
  display: flex;  
  flex-direction: column;  
}
```

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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flex-direction

```
section {  
  display: flex;  
  flex-direction: row-reverse;  
}
```

Sample flexbox example

Third article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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flex-direction

```
section {  
  display: flex;  
  flex-direction: column-reverse;  
}
```

Sample flexbox example

Third article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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flex-wrap



flex-wrap

```
section {  
  display: flex;  
  flex-wrap: wrap;  
}
```

```
article {  
  flex: 200px;  
}
```

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

Second article

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Cray food truck brunch, XOXO +1 keffiyeh pickled chambray waistcoat ennui. Organic small batch paleo 8-bit. Intelligentsia umami wayfarers pickled, asymmetrical

Fourth article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

flex-wrap

```
section {  
  display: flex;  
  flex-wrap: wrap;  
}
```

```
article {  
  flex: 120px;  
}
```

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

Second article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub

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Fourth article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub

flex

```
article {  
  flex: 1;  
}
```

```
article:nth-of-type(3) {  
  flex: 2;  
}
```

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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flex

```
article {  
  flex: 1 200px;  
}
```

```
article:nth-of-type(3) {  
  flex: 2 200px;  
}
```

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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Cray food truck brunch. YOLO +1

flex

```
article {  
  flex: 1 200px;  
}
```

```
article:nth-of-type(3) {  
  flex: 2 200px;  
}
```

Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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flex-flow shorthand

At this point it's worth noting that a shorthand exists for `flex-direction` and `flex-wrap`: `flex-flow`. So, for example, you can replace

```
flex-direction: row;  
flex-wrap: wrap;
```



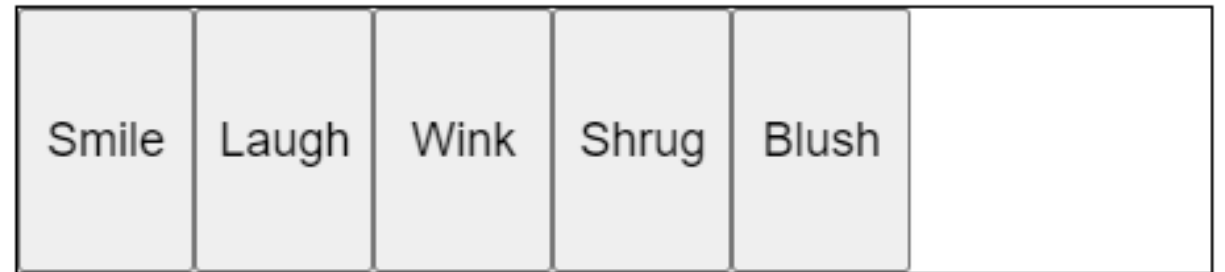
with

```
flex-flow: row wrap;
```



Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: stretch;  
  justify-content: flex-start;  
}
```



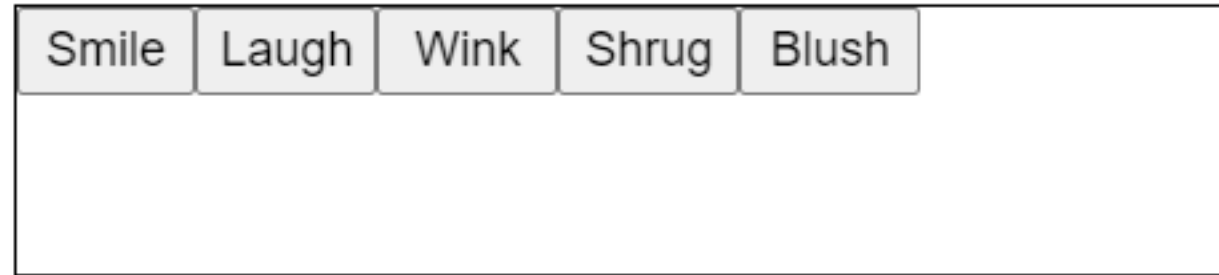
Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: center;  
  justify-content: flex-start;  
}
```



Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: flex-start;  
  justify-content: flex-start;  
}
```



Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: flex-end;  
  justify-content: flex-start;  
}
```



Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: center;  
  justify-content: flex-start;  
}
```



Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: center;  
  justify-content: flex-end;  
}
```



Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: center;  
  justify-content: space-between;  
}
```



Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: center;  
  justify-content: space-around;  
}
```



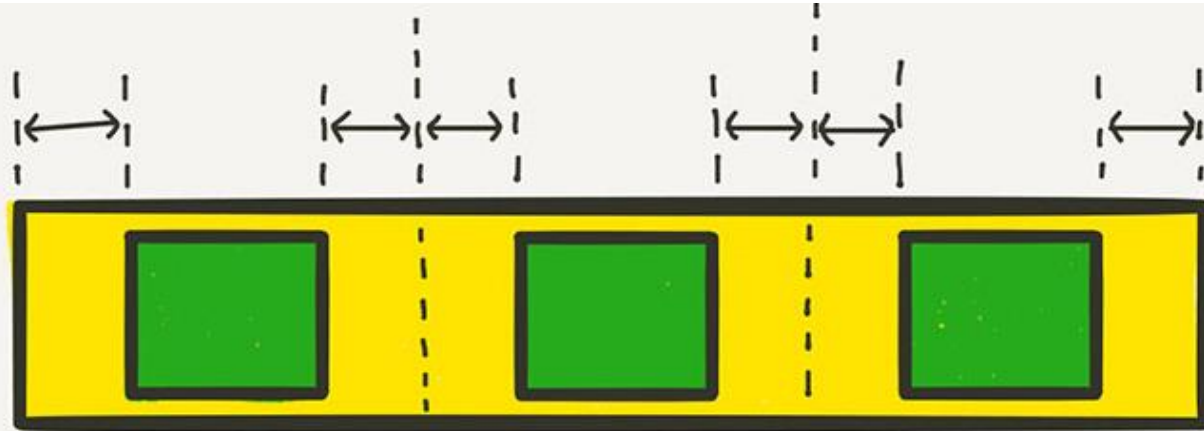
Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: center;  
  justify-content: space-evenly;  
}
```

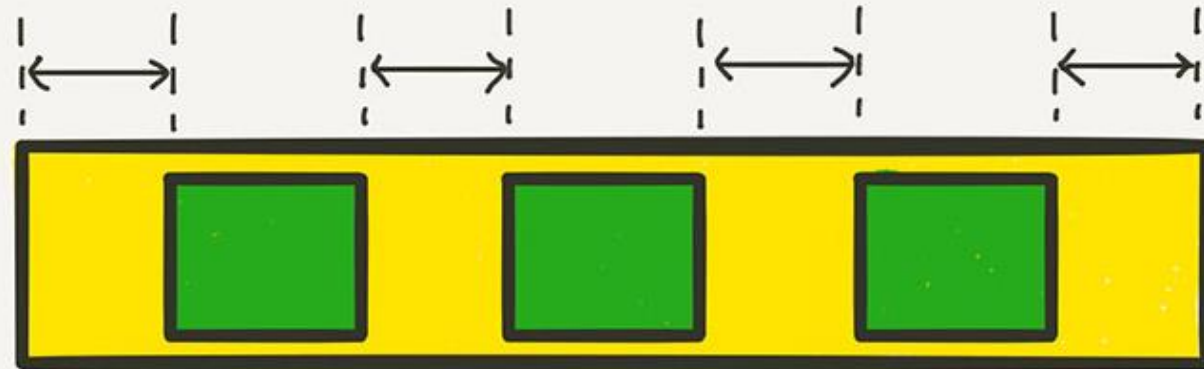


Horizontal and vertical alignment

space-around



space-evenly



Horizontal and vertical alignment

```
div {  
  display: flex;  
  align-items: center;  
  justify-content: space-evenly;  
}
```

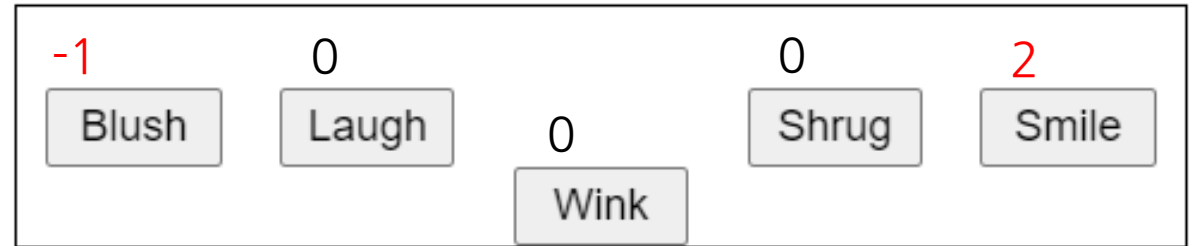
```
button:nth-of-type(3) {  
  align-self: flex-end;  
}
```



Ordering flex items

```
button:last-child {  
  order: -1;  
}
```

```
button:first-child {  
  order: 2;  
}
```



Nested flex boxes

Complex flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

Second article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

Smile

Laugh

Wink

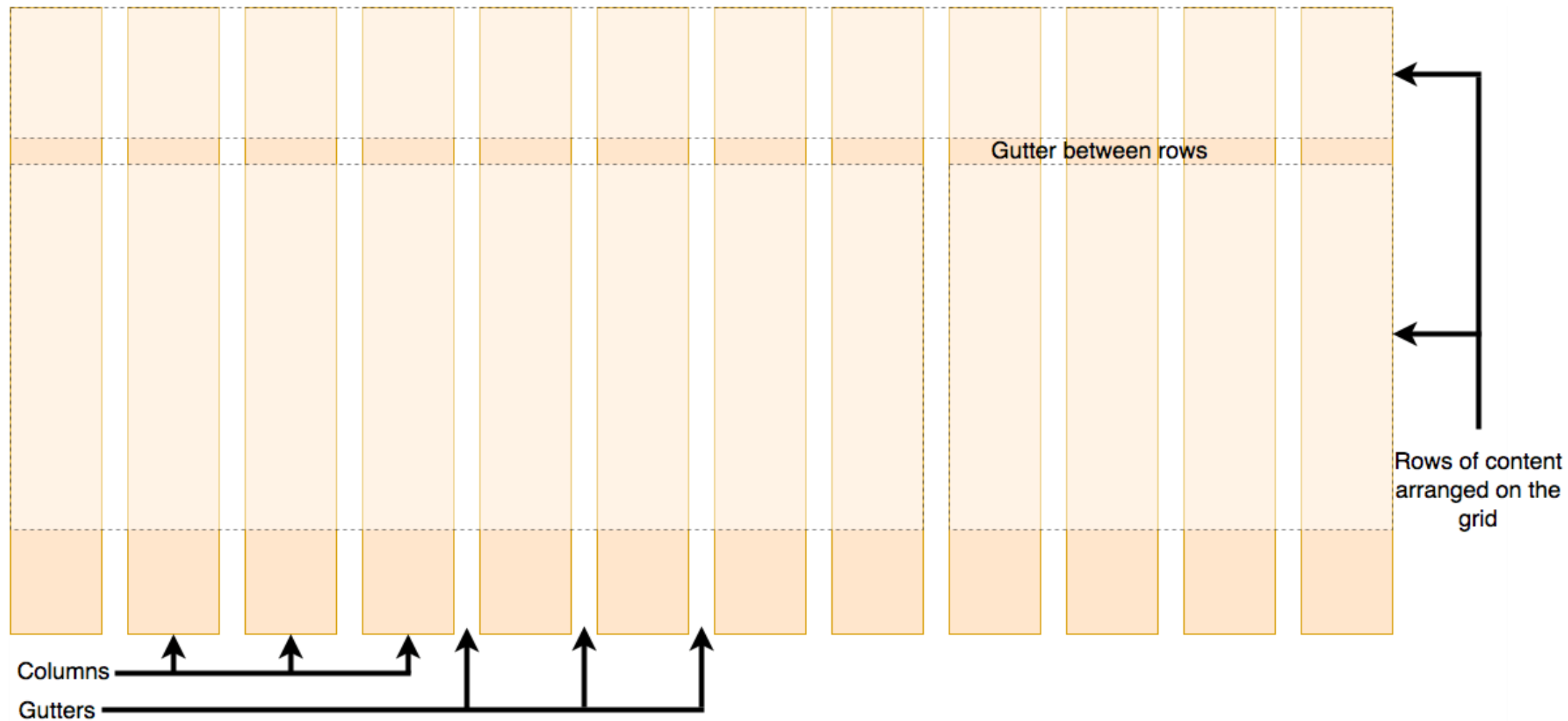
Shrug

Blush

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

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Grids



Grids

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

1	2	3
4	5	6
7	8	

Grids

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

1	2	3
4	5	6
7	8	

Grids

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

1	2	3
4	5	6
7	8	

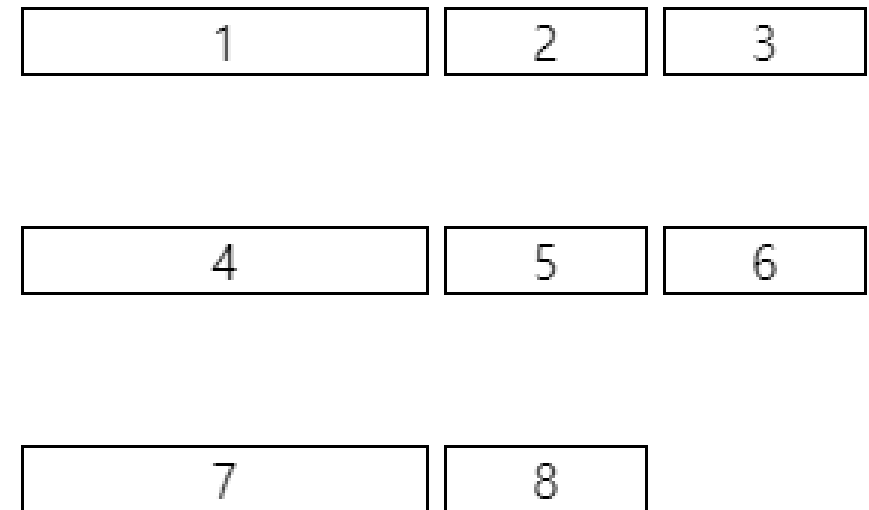
Grids

```
.container {  
  display: grid;  
  grid-template-columns: repeat(4, 1fr);  
}
```

1	2	3	4
5	6	7	8

Grids

```
.container {  
  display: grid;  
  grid-template-columns: 2fr 1fr 1fr;  
  column-gap: 5px;  
  row-gap: 50px;  
}
```



Grids

```
.container {  
  display: grid;  
  grid-template-columns: 2fr 1fr 1fr;  
  grid-template-rows: 30px 30px;  
}
```

1	2	3
4	5	6
7	8	

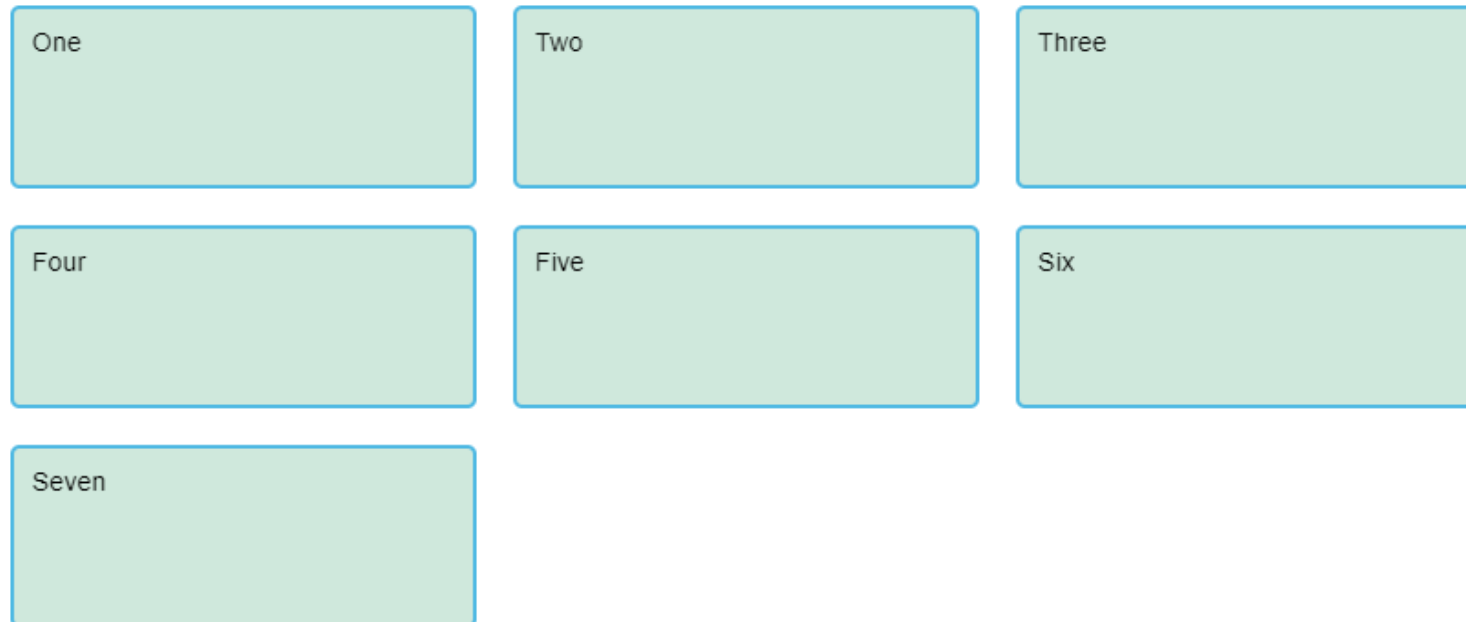
Grids

```
.container {  
  display: grid;  
  grid-template-columns: 2fr 1fr 1fr;  
  grid-auto-rows: 30px;  
}
```

1	2	3
4	5	6
7	8	

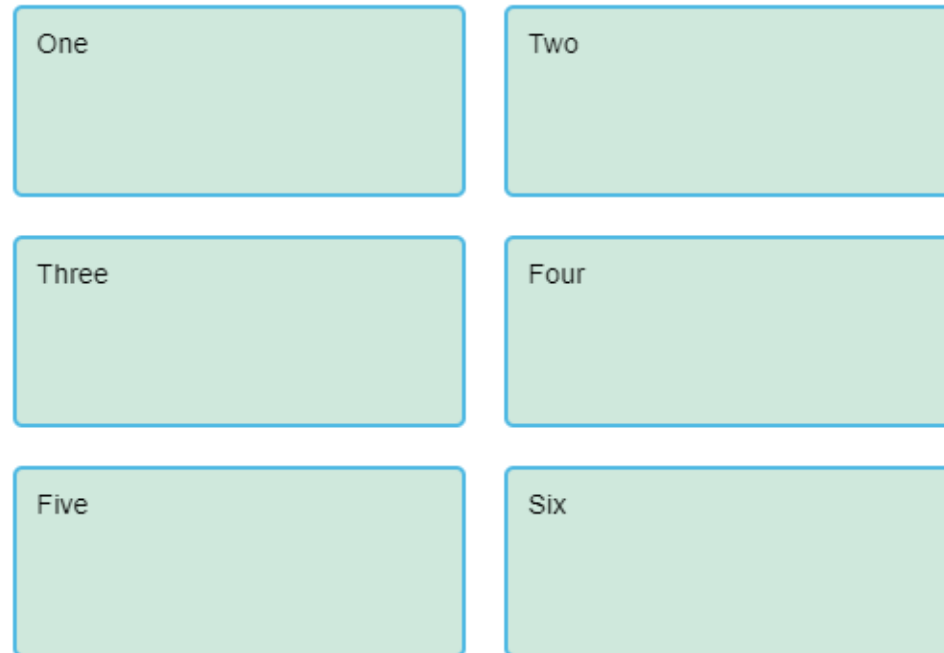
Grids

```
.container {  
  display: grid;  
  grid-template-columns: repeat(auto-fill, minmax(200px, 1fr));  
  grid-auto-rows: minmax(100px, auto);  
}
```

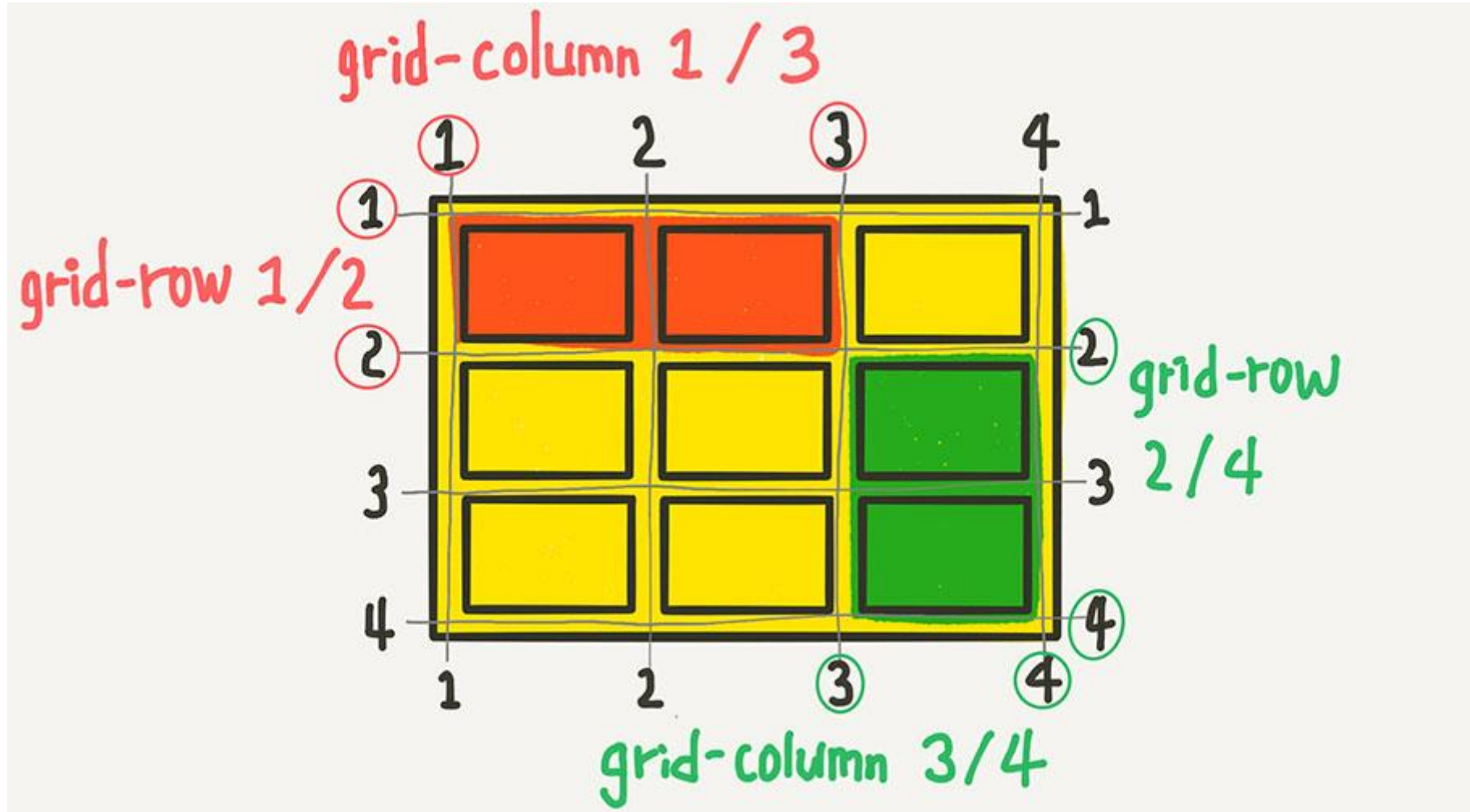


Grids

```
.container {  
  display: grid;  
  grid-template-columns: repeat(auto-fill, minmax(200px, 1fr));  
  grid-auto-rows: minmax(100px, auto);  
}
```

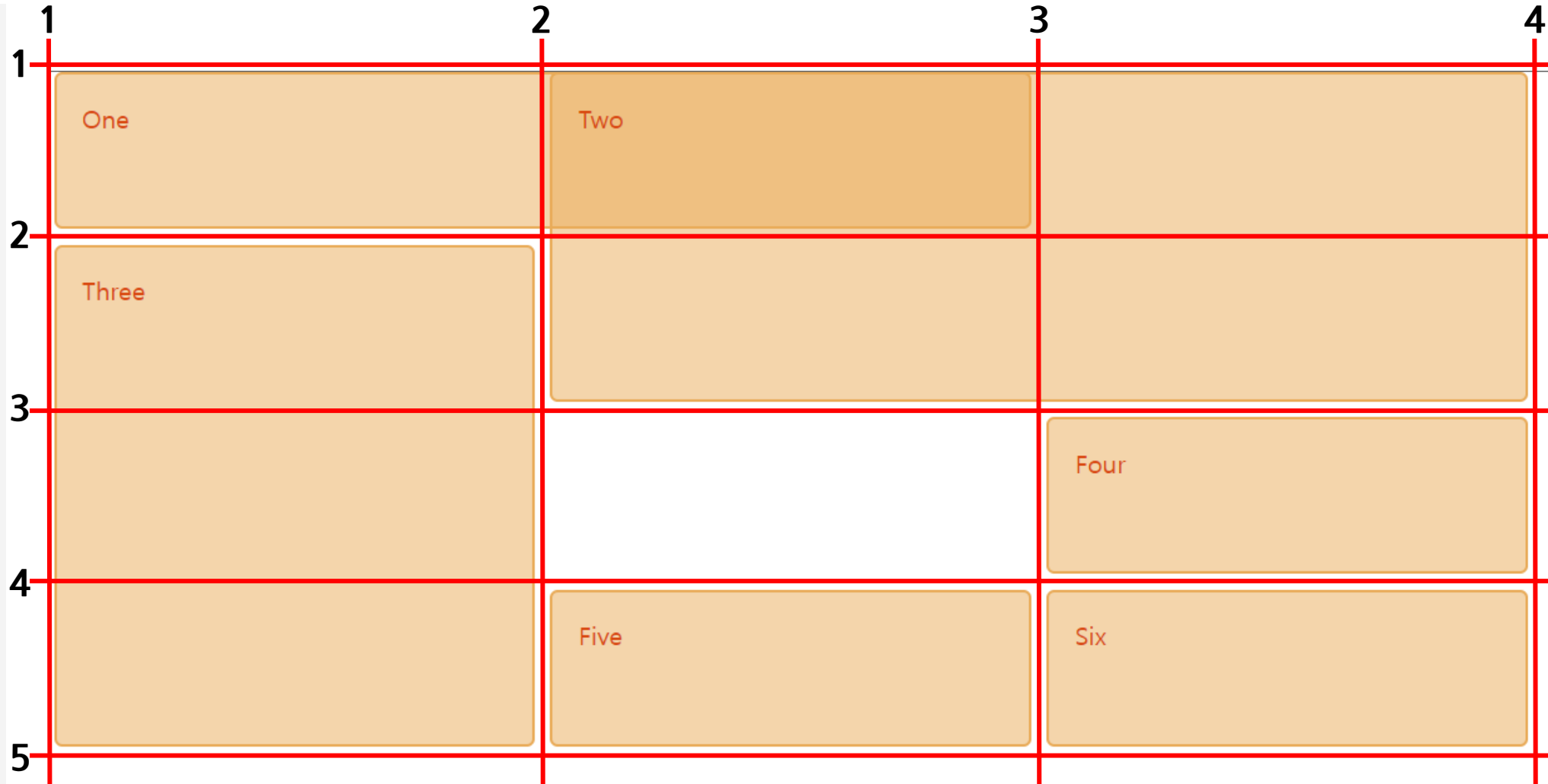


Grids



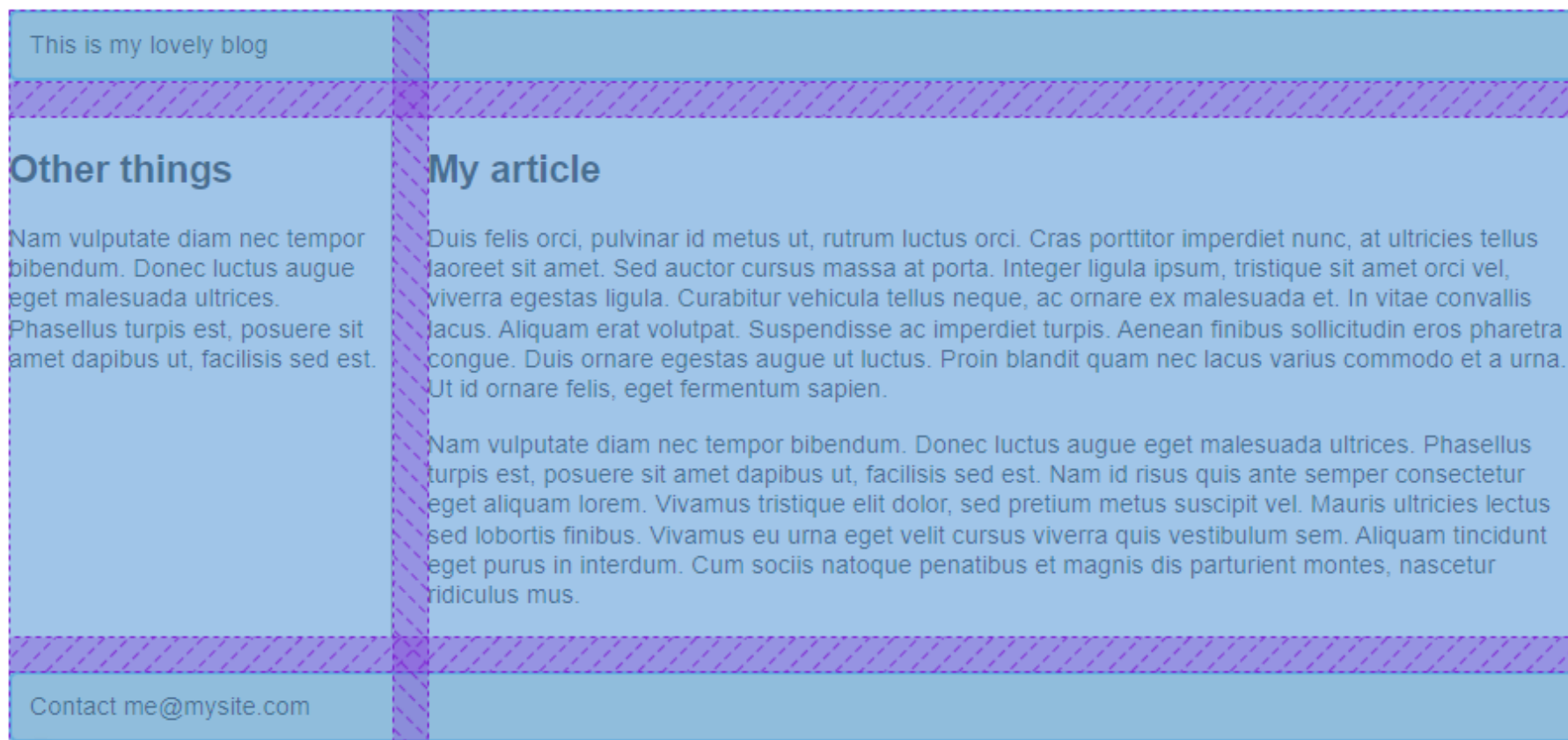
Grids

```
.one {  
  grid-column: 1 / 3;  
  grid-row: 1;  
}  
.two {  
  grid-column: 2 / 4;  
  grid-row: 1 / 3;  
}  
.three {  
  grid-column: 1;  
  grid-row: 2 / 5;  
}  
.four {  
  grid-column: 3;  
  grid-row: 3;  
}  
.five {  
  grid-column: 2;  
  grid-row: 4;  
}  
.six {  
  grid-column: 3;  
  grid-row: 4;  
}
```



Grids

```
.container {  
  display: grid;  
  grid-template-areas:  
    "header header"  
    "sidebar content"  
    "footer footer";  
  grid-template-columns: 1fr 3fr;  
  gap: 20px;  
}  
  
header {  
  grid-area: header;  
}  
  
article {  
  grid-area: content;  
}  
  
aside {  
  grid-area: sidebar;  
}  
  
footer {  
  grid-area: footer;  
}
```



Grids

```
.container {  
  display: grid;  
  grid-template-areas:  
    "header header"  
    "sidebar content"  
    "footer footer";  
  grid-template-columns: 1fr 3fr;  
  gap: 20px;  
}  
  
header {  
  grid-area: header;  
}  
  
article {  
  grid-area: content;  
}  
  
aside {  
  grid-area: sidebar;  
}  
  
footer {  
  grid-area: footer;  
}
```

- You need to have every cell of the grid filled.
- To span across two cells, repeat the name.
- To leave a cell empty, use a `.` (period).
- Areas must be rectangular — for example, you can't have an L-shaped area.
- Areas can't be repeated in different locations.