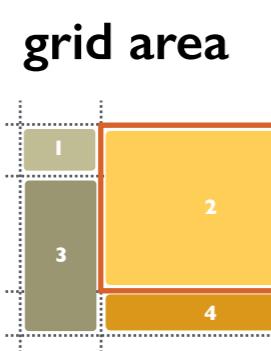
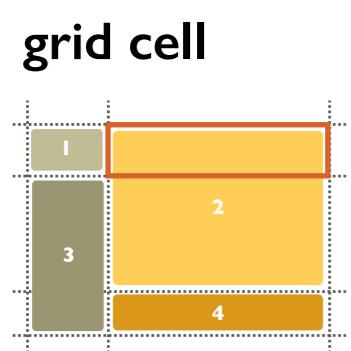
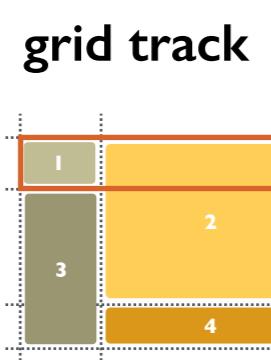
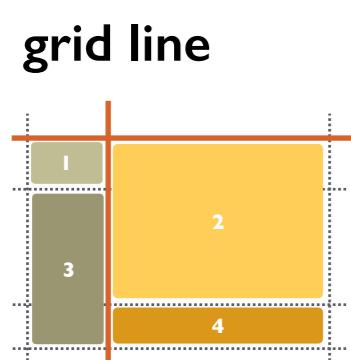


grid layout cheatsheet

by @alsacreations

grid concepts and example



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

fr (flex fraction) = a fraction of available free space

.one {
  grid-row: 1;
  grid-column: 1;
}
.two {
  grid-row: 1 / 3;
  grid-column: 2;
}

.three {
  grid-row: 2 / 4;
  grid-column: 1;
}
.four {
  grid-row: 3;
  grid-column: 2;
}
```

defining the grid

display

grid · inline-grid · subgrid

Explicit Grid

none · line name · track size · auto

grid-template-rows

none · line name · track size · auto

grid-template-columns

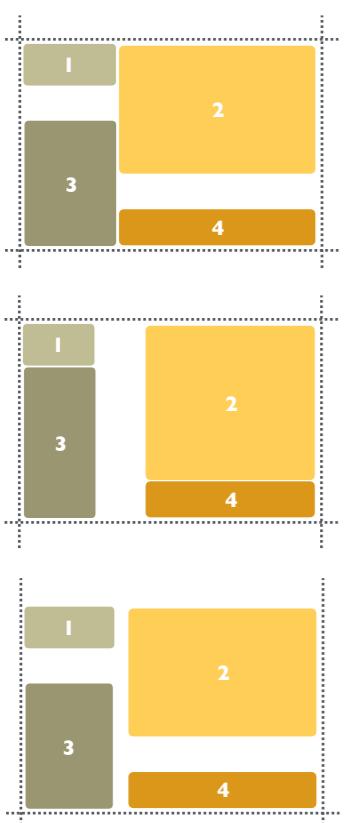
none · line name · track size · auto

Line Names
[area-name]-start
[area-name]-end

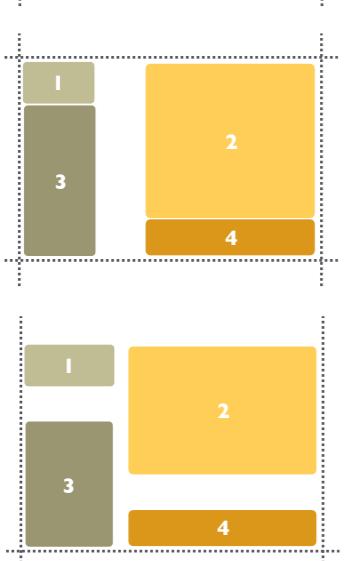
grid-template-areas shortcut for grid-template-rows|columns
grid shortcut for... everything

gaps

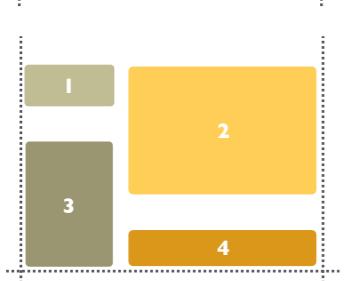
specifying size of row and column gutters



```
.parent {
  row-gap: 50px;
}
```



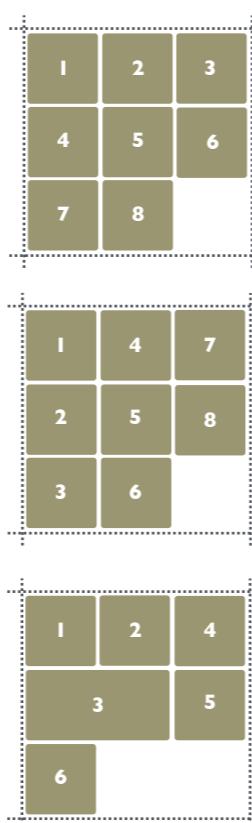
```
.parent {
  column-gap: 50px;
}
```



```
.parent {
  gap: 50px 10px;
}    row    column
```

auto placement

automatic placement for items that aren't placed



Implicit Grid

```
.parent {
  grid-auto-flow: row;
```

```
.parent {
  grid-auto-flow: column;
```

```
.parent {
  grid-auto-flow: dense;
}    grid-auto-rows  
      grid-auto-columns
```

container alignment

align-content

vertical alignment for whole grid

start · end · center · stretch · space-around
space-between · space-evenly

justify-content

horizontal alignment for whole grid
start · end · center · stretch · space-around
space-between · space-evenly

place-content

shortcut for align-content and justify-content

align-items

vertical alignment for items in their cells
start · end · center · stretch

justify-items

horizontal alignment for items in their cells
start · end · center · stretch

place-items

shortcut for align-items and justify-items

item alignment

justify-self

horizontal alignment for specific item in its cell
start · end · center · stretch

align-self

vertical alignment for specific item in its cell
start · end · center · stretch

place-self

shortcut for align-self and justify-self

placing items

grid-row-start

auto · line name · line number

grid-row-end

auto · line name · line number

grid-row

shortcut for grid-row-start|end

grid-column-start

auto · line name · line number

grid-column-end

auto · line name · line number

grid-column

shortcut for grid-column-*

grid-area start end row column row column

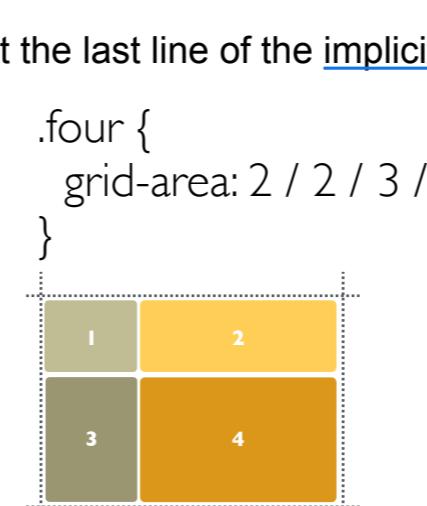
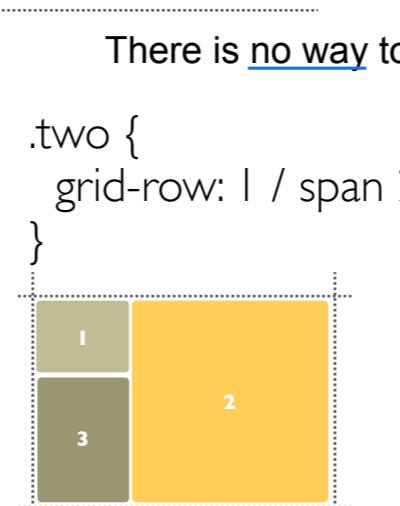
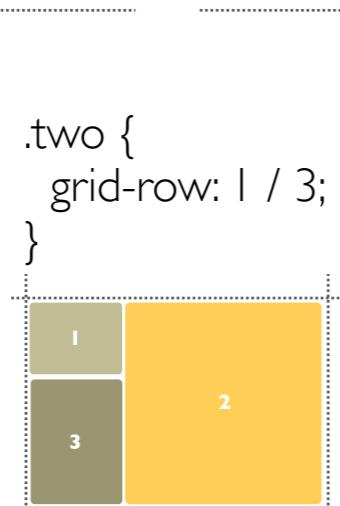
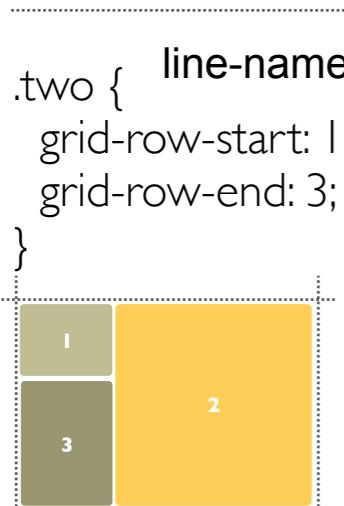
shortcut for... everything

span N

keyword for row or column spanning

The end line of a explicit grid is number -1

There is no way to target the last line of the implicit grid

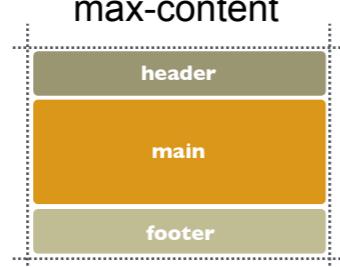


patterns

```
.parent {
  align-content: center;
  justify-content: center;
}
```



```
.parent {
  grid-auto-rows: auto 1fr auto;
}    min-content  
      max-content
```

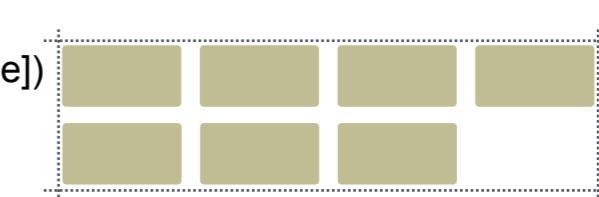


auto-fill: Creates a fixed number of tracks, potentially leaving empty spaces if there are not enough items.
auto-fit: Creates tracks and then collapses any empty ones, allowing the existing items to expand and fill the entire available space.

```
.parent {
  grid-template-columns: repeat(2, 100px 1fr);
}    repeat(auto-fit, minmax(250px, 1fr));
      repeat(auto-fit, minmax(250px, 1fr));
```

fit-content([max-value])
minmax()

```
.parent {
  grid-template-columns: repeat(4, 22%);
  justify-content: space-between;
}
```



resources

english

- Grid by example: <https://gridbyexample.com/>
- Learn CSS Grid: <http://learn-css-grid.com/>
- CSS Grid free videos: <https://cssgrid.io/>
- CSS Grid Garden: <http://cssgridgarden.com/>

francophone

- CSS Grid chez Alsacréations : <http://kiwi.gg/gridlayout>
 - 50 nuances de grilles : <https://speakerdeck.com/goetter/50-nuances-de-grilles>
- Explicit Grid: Defined by grid-template-rows and grid-template-columns, which creates a fixed number of tracks (rows and columns) with specific sizes.
- Implicit Grid: Automatically created by the browser when content is placed outside of the explicit grid, adding extra rows or columns as needed. The behavior is controlled by grid-auto-rows and grid-auto-columns.