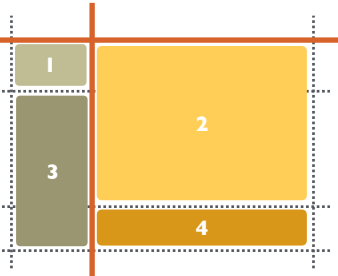
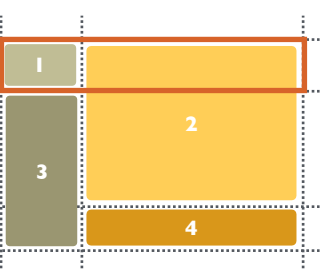


grid concepts and example

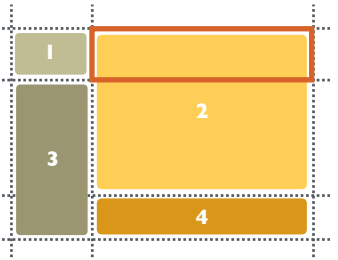
grid line



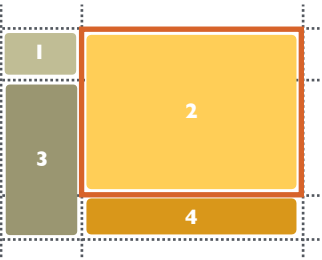
grid track



grid cell



grid area



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

.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

grid-template-rows
none · line name · track size · auto

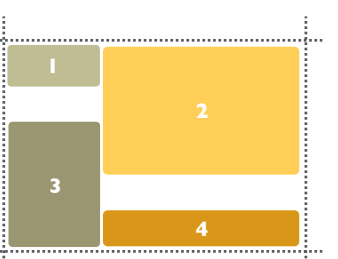
grid-template-columns
none · line name · track size · auto

grid-template-areas
none · string

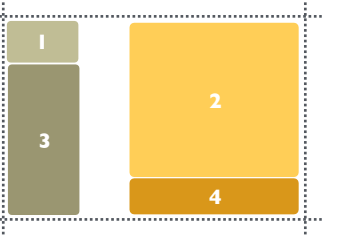
grid-template grid
shortcut for grid-template-rows|column
shortcut for... everything

gaps

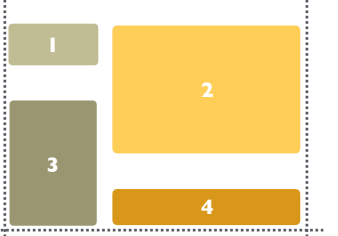
specifying size of row and column gutters



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



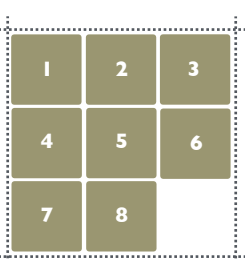
```
.parent {
  column-gap: 50px;
}
```



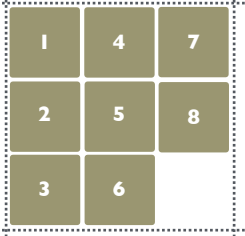
```
.parent {
  gap: 50px 10px;
}
```

auto placement

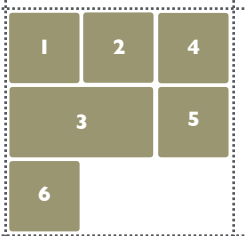
automatic placement for items that aren't placed



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



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



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

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

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
shortcut for... everything

span N
keyword for row or column spanning

```
.two {
  grid-row-start: 1;
  grid-row-end: 3;
}
```

```
.two {
  grid-row: 1 / 3;
}
```

```
.two {
  grid-row: 1 / span 2;
}
```

```
.four {
  grid-area: 2 / 2 / 3 / 3;
}
```

item alignment

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

place-items
shortcut for align-items and justify-items

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

patterns

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

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

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

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

resources

english

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

francophone

- CSS Grid chez Alsacr ations : <http://kiwi.gg/gridlayout>
- 50 nuances de grilles : <https://speakerdeck.com/goetter/50-nuances-de-grilles>