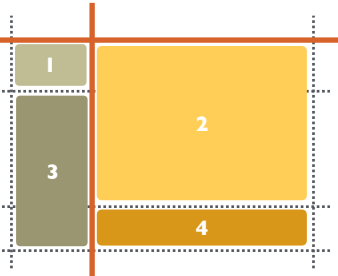
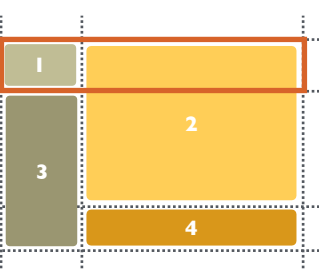


grid concepts and example

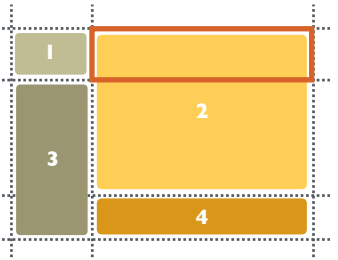
grid line



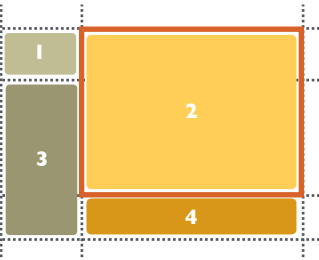
grid track



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

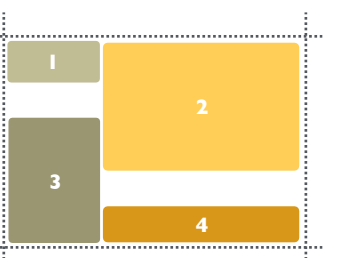
grid-template-areas
none · string

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

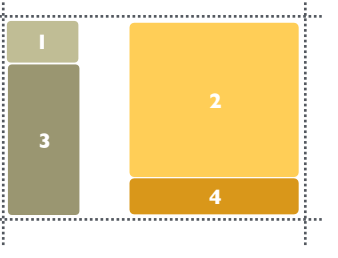
grid shortcut for... everything

gaps

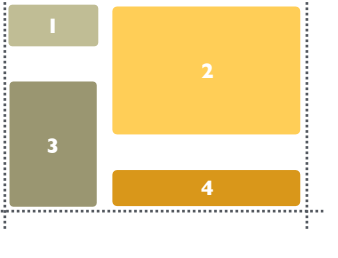
specifying size of row and column gutters



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



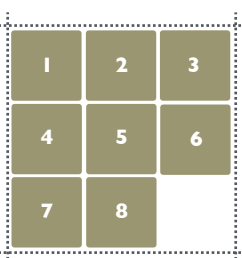
```
.parent {
  column-gap: 50px;
}
```



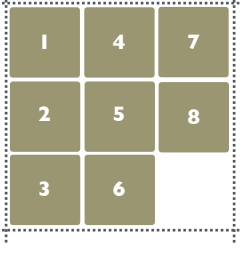
```
.parent {
  gap: 50px 10px;
}
```

auto placement

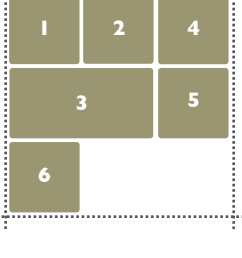
automatic placement for items that aren't placed



```
.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	

<pre>.two { grid-row-start: 1; grid-row-end: 3; }</pre>	<pre>.two { grid-row: 1 / 3; }</pre>	<pre>.two { grid-row: 1 / span 2; }</pre>	<pre>.four { grid-area: 2 / 2 / 3 / 3; }</pre>
---	--	---	--

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

<pre>.parent { align-content: center; justify-content: center; }</pre>	<pre>.parent { grid-auto-rows: auto 1fr auto; }</pre>	<pre>.parent { grid-template-columns: repeat(2, 100px 1fr); }</pre>	<pre>.parent { grid-template-columns: repeat(4, 22%); justify-content: space-between; }</pre>
--	---	---	---

resources

english <ul style="list-style-type: none">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 <ul style="list-style-type: none">CSS Grid chez Alsacr�ations : http://kiwi.gg/gridlayout50 nuances de grilles : https://speakerdeck.com/goetter/50-nuances-de-grilles
--	--