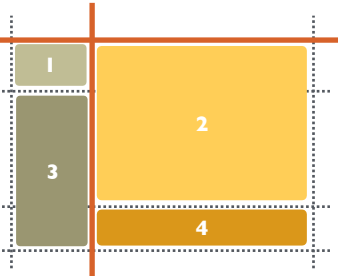
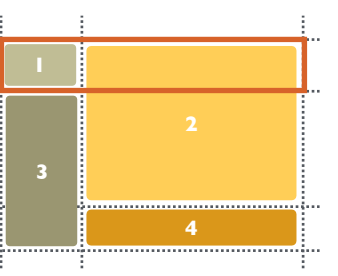


grid concepts and example

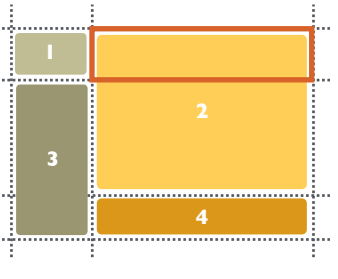
grid line



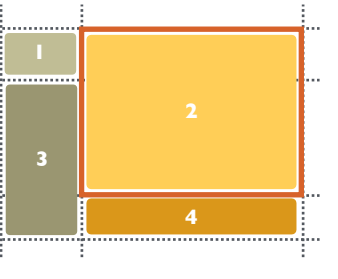
grid track



grid cell



grid area



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

.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;
}

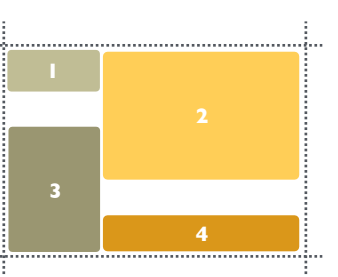
.four {
  grid-row: 3;
  grid-column: 2;
}
```

defining the grid

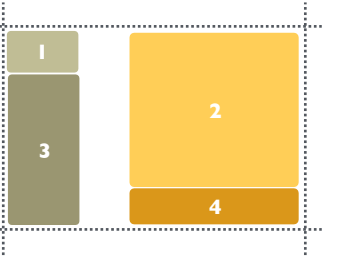
display	grid · inline-grid · subgrid
grid-template-rows	Explicit Grid none · line name · track size · auto
grid-template-columns	none · line name · track size · auto
grid-template-areas	Line Names [area-name]-start [area-name]-end none · string
grid-template	shortcut for grid-template-rows column
grid	shortcut for... everything

gaps

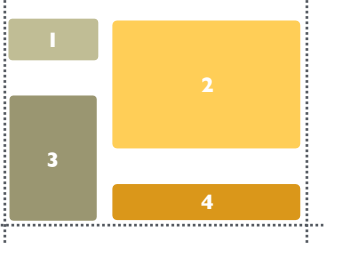
specifying size of row and column gutters



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



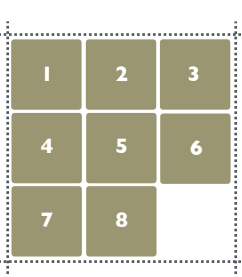
```
.parent {
  column-gap: 50px;
}
```



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

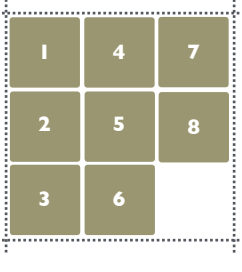
auto placement

automatic placement for items that aren't placed

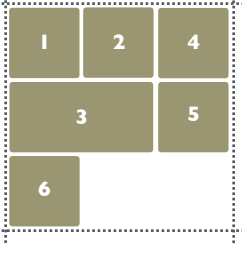


Implicit Grid

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



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



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

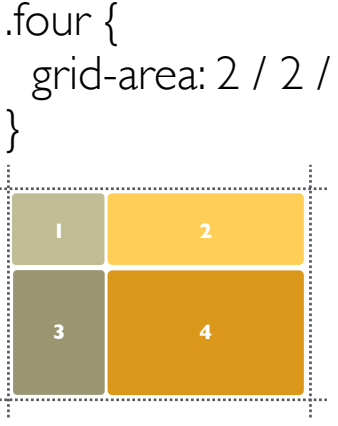
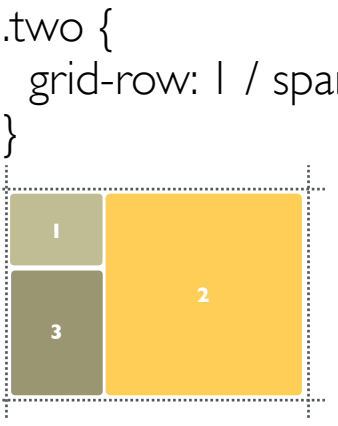
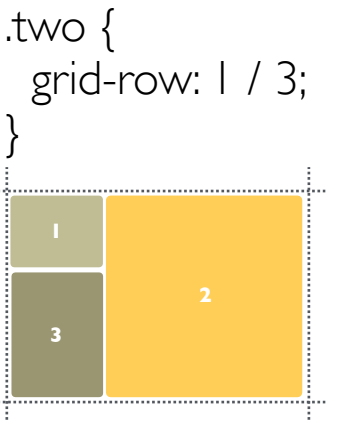
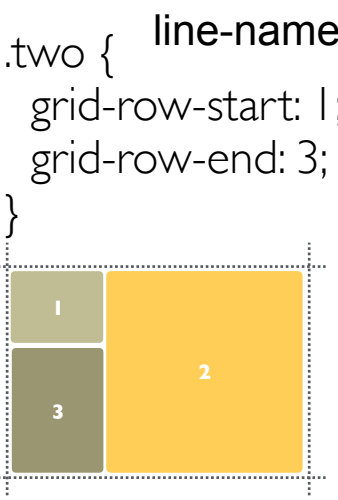
grid-auto-rows
grid-auto-columns

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

placing items

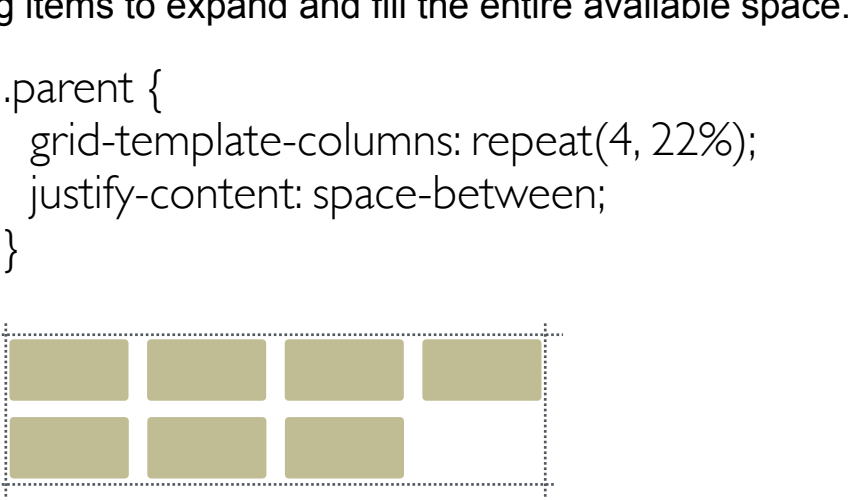
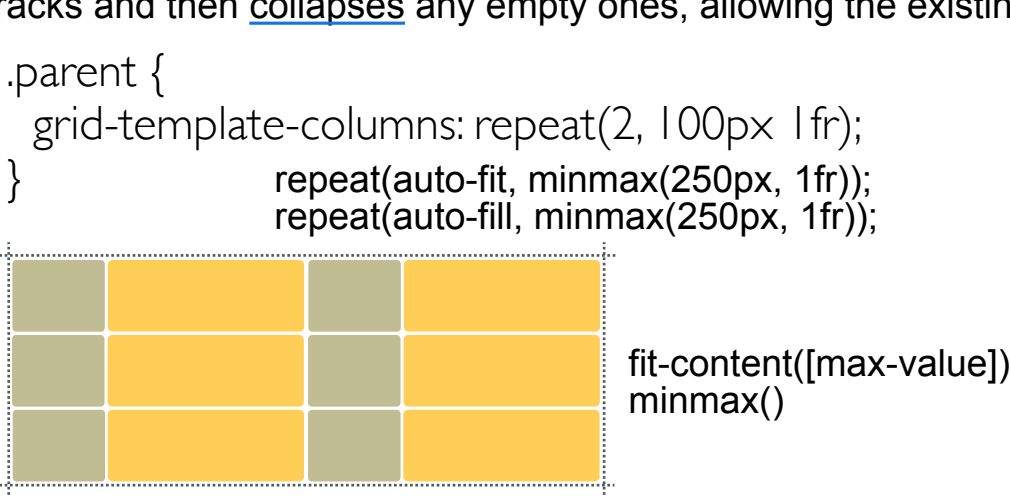
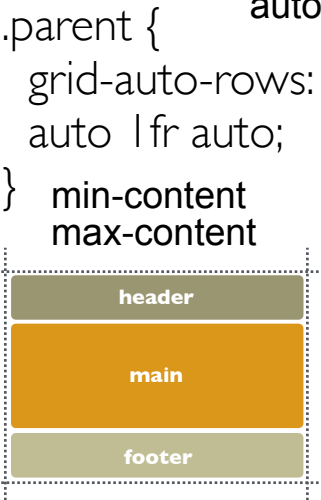
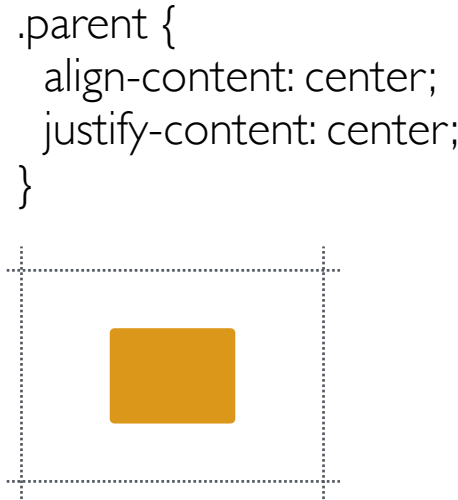
grid-row-start auto · line name · line number	grid-row-end auto · line name · line number	grid-row shortcut for grid-row-start end
grid-column-start auto · line name · line number	grid-column-end auto · line name · line number	grid-column shortcut for grid-column-*
grid-area start row column end row column shortcut for... everything	span N The end line of a explicit grid is number -1 keyword for row or column spanning	



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

patterns



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>
- 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 control by grid-auto-rows and grid-auto-columns.