POSIZIONE DEGLI ELEMENTI

Posizione degli elementi block

Inline content reflows to fit the width of the block.

Blocks fill the available width.
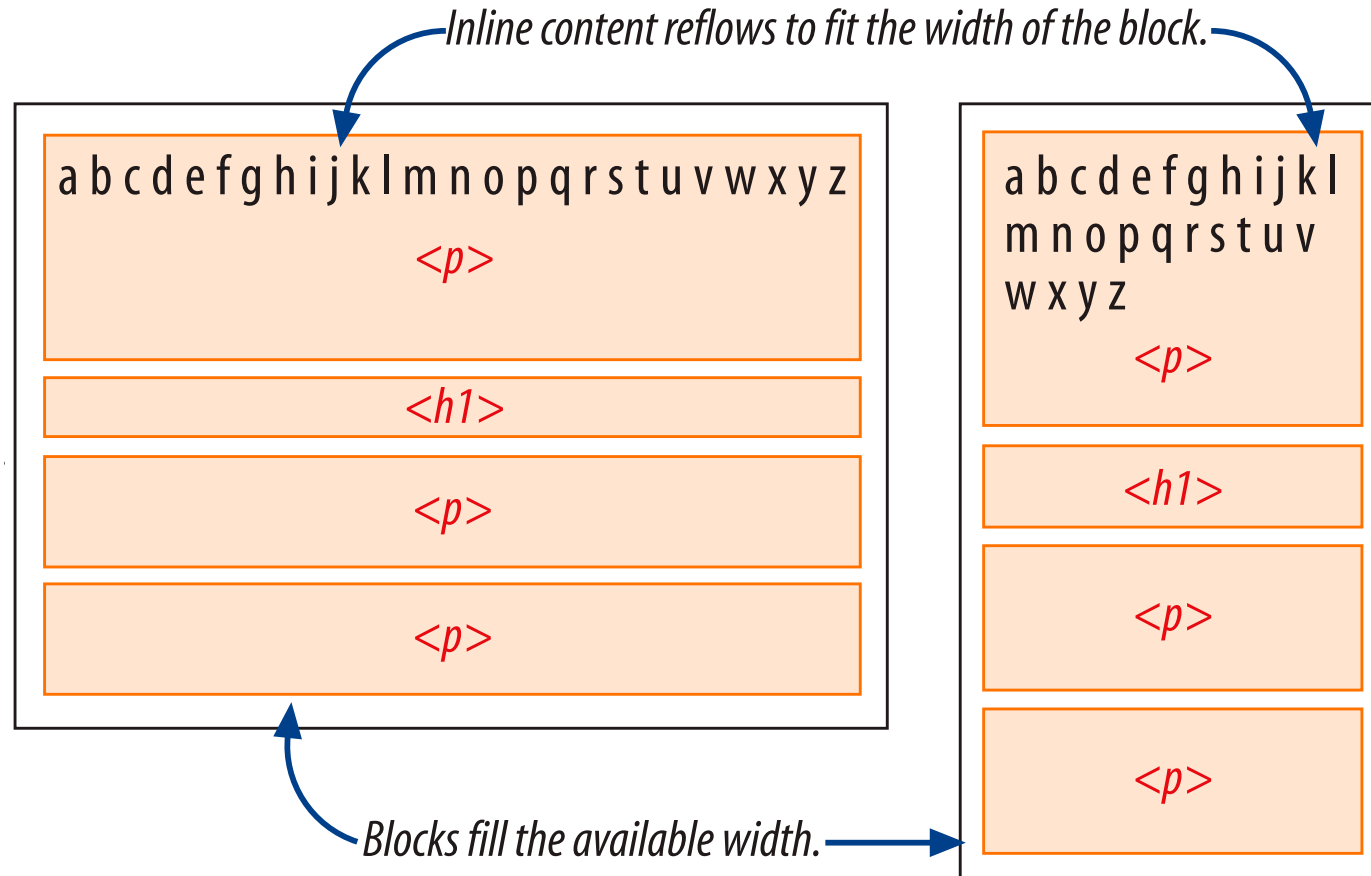
Cambiare il flusso

- position
  - top, bottom, left, right
  - z-index

    https://developer.mozilla.org/en-US/docs/Web/CSS/position

    https://www.w3schools.com/css/css_positioning.asp

- float
  - clear

    https://developer.mozilla.org/en-US/docs/Web/CSS/float

    https://www.w3schools.com/css/css_float.asp

Modalità di posizionamento

position

Values:	static | relative | absolute | fixed | inherit
Default:	static
Applies to:	all elements
Inherits:	no

- **static**: posizione normale
- **relative**: posizionabile rispetto al suo posto
- **absolute**: posizionabile rispetto al suo contenitore
- **fixed**: posizionabile rispetto al viewport

Specificare la posizione

`top, right, bottom, left`

Values: *length measurement* | *percentage* | `auto` | `inherit`
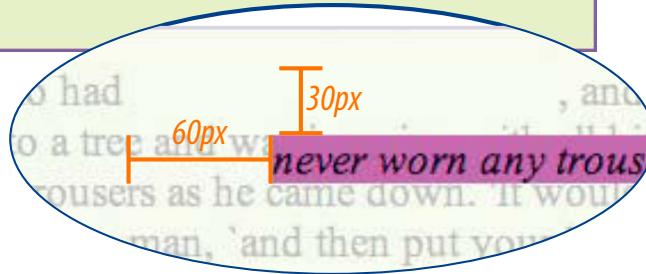
Default: `auto`

Applies to: *positioned elements (where position value is* `relative`*,* `absolute`*, or* `fixed`*)*

Inherits: *no*

- Specifica la distanza rispetto al **containing block**
- Quale è il **containing block** dipende dal tipo di position usata nei blocchi parent

position: relative

Along the road he came upon a man who had   , and who was trying to
put on a pair. So he had fastened them to a tree and wa~~~~~~~~~~~~~~ight up in the air
so that he should hit the two legs of the trousers as he came down. 'It would be much better if
you held them in your hands,' said the young man, `and then put your legs one after the other in
each hole.'

never worn any trousers

```
em {
    position: relative;
    top: 30px;
    left: 60px;
    background-color: fuchsia;
}
```

never worn any trous

30px

60px

Along the road he came upon a man who had
put on a pair. So he had fastened them to a tree
so that he should hit the two legs of the trouser
you held them in your hands,' said the young r
each hole.'

- Lo spazio occupato originariamente è conservato

- Causa sovrapposizioni

posizion: absolute

```
em {
   position: absolute;
   top: 30px;
   left: 60px;
   background-color: fuchsia;
}
```
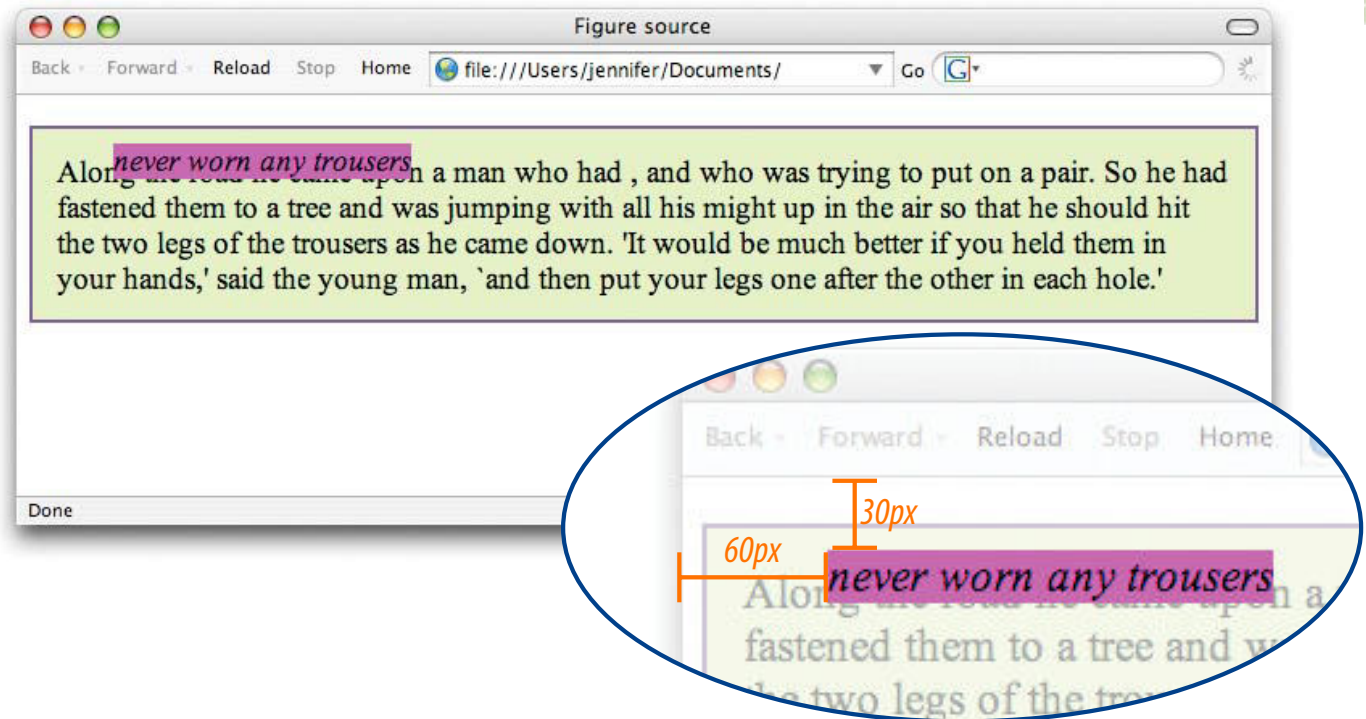
- lo posiziona rispetto al primo parent che definisce un containing block

Gestire sovrapposizioni

z-index

Values: *number* | auto | inherit

Default: auto

Applies to: *positioned elements*

Inherits: *no*

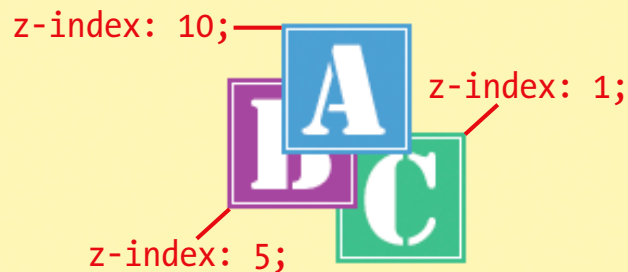```
#A {
  z-index: 10;
  position: absolute;
  top: 200px;
  left: 200px;
}
#B {
  z-index: 5;
  position: absolute;
  top: 225px;
  left: 175px;
}
```

```
#C {
  z-index: 1;
  position: absolute;
  top: 250px;
  left: 225px;
}
```

z-index: 10;

z-index: 1;

z-index: 5;

By default, elements later in the document stack on top of preceding elements.

You can change the stacking order with the z-index property. Higher values stack on top of lower values.

Blocchi contenitori

- Se un elemento non è contenuto in nessun blocco con position non static allora il BC è **body**

- Se un ancestor definisce una position non static quello diventa il BC

Esempio: ogre-pos.html

Dimensioni e position

```css
div#a {
    position: relative;    /* creates the containing block */
    height: 120px;
    width: 300px;
    border: 1px solid;
    background-color: #CCC;
}

div#b {
    position: absolute;
    top: 20px;
    right: 30px;
    bottom: 40px;
    left: 50px;
    border: 1px solid;
    background-color: teal;
}
```

div#a *(width: 300px; height: 120px;)*

top: 20px;

left: 50px;

div#b
(calculated at 220 pixels wide x 60 pixels high)

right:
30px;

bottom: 40px;
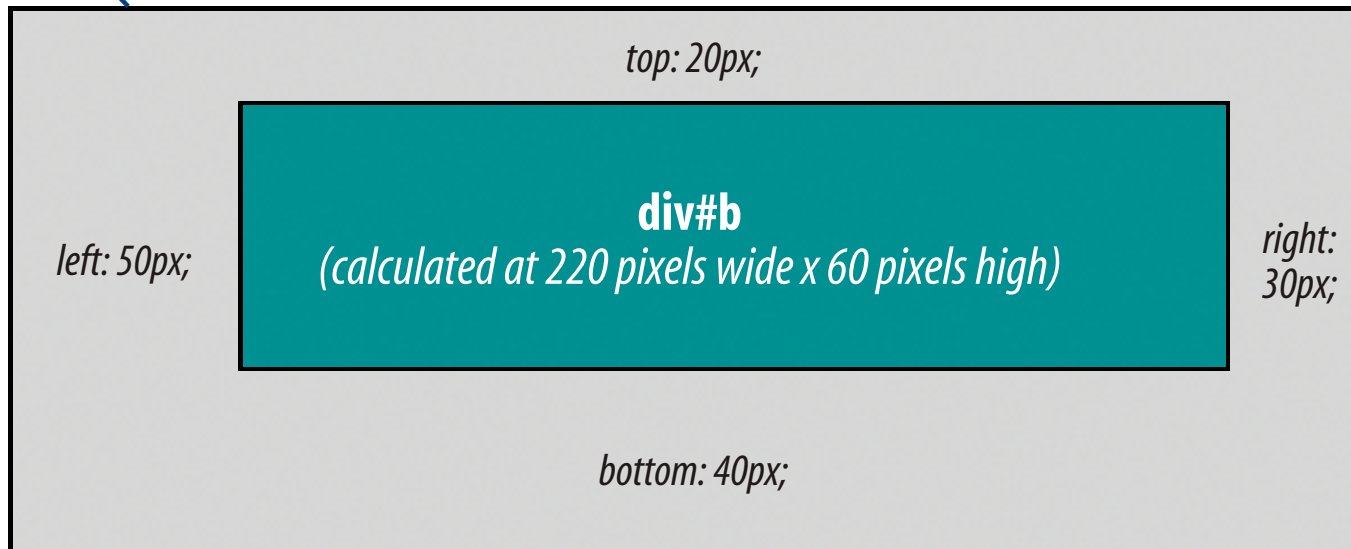
Esempi

- Dropdown   https://www.w3schools.com/css/css_dropdowns.asp

  https://www.w3schools.com/css/tryit.asp?filename=trycss_dropdown_button

  https://www.w3schools.com/css/tryit.asp?filename=trycss_dropdown_image

- Altri

  https://developer.mozilla.org/en-US/docs/Learn/CSS/CSS_layout/Practical_positioning_examples

float

float

Values:	left | right | none | inherit
Default:	none
Applies to:	all elements
Inherits:	no

- muove un elemento tutto a destra o tutto a sinistra permettendo agli atri elementi di circondarlo

Esempio

Inline image in the normal flow

space next to the image is held clear

They went down, down, down, till at last they came to a passage with a door at one end, which was only fastened with a latch. The eldest Princess opened it, and they found themselves immediately in a lovely little wood, where the leaves were spangled with drops of silver which shone in the brilliant light of the moon. They next crossed another wood where the leaves were sprinkled with gold, and after that another still, where the leaves glittered with diamonds.

Inline image floated to the right.

They went down, down, down, till at last they came to a passage with a door at one end, which was only fastened with a latch. The eldest Princess opened it, and they found themselves immediately in a lovely little wood, where the leaves were spangled with drops of silver which shone in the brilliant light of the moon. They next crossed another wood where the leaves were sprinkled with gold, and after that another still, where the leaves glittered with diamonds.
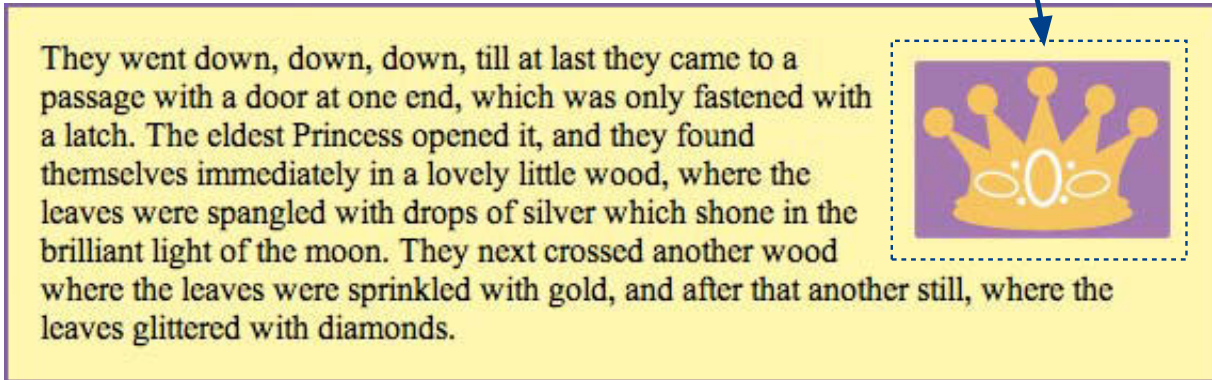
image moves over and text wraps around it

```css
img {
    float: right;
}
p {
    padding: 15px;
    background-color: #F
    border: 2px solid #6
}
```

Esempio

Indicates outer margin edge
(this rule would not appear in the actual web page)

They went down, down, down, till at last they came to a passage with a door at one end, which was only fastened with a latch. The eldest Princess opened it, and they found themselves immediately in a lovely little wood, where the leaves were spangled with drops of silver which shone in the brilliant light of the moon. They next crossed another wood where the leaves were sprinkled with gold, and after that another still, where the leaves glittered with diamonds.

```
img {
    float: right;
    margin: 10px;
}
```

Esempio: ogre-fl.html

Caratteristiche

- Si staccano dal flusso normale ma influenzano il contenuto dei blocchi intorno
- Sono contenuti nell'area del contenuto dell'elemento che li contiene
- I margini sono mantenuti

clear dei float

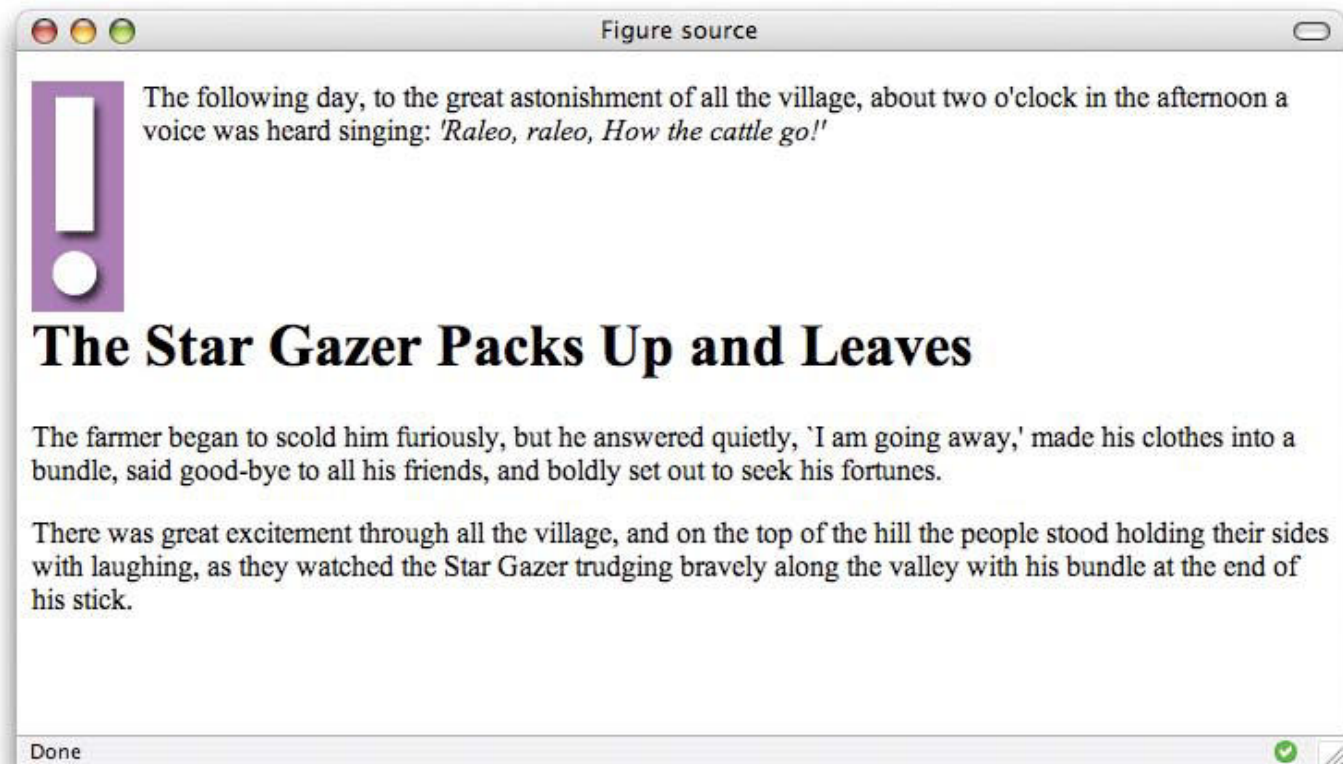## clear

Values: left | right | both | none | inherit

Default: none

Applies to: block-level elements only

Inherits: no

```css
img {
  float: left;
  margin-right: 10px;
}
h2 {
  clear: left;
  margin-top: 2em;
}
```


Figure source

The following day, to the great astonishment of all the village, about two o'clock in the afternoon a voice was heard singing: *'Raleo, raleo, How the cattle go!'*

The Star Gazer Packs Up and Leaves

The farmer began to scold him furiously, but he answered quietly, `I am going away,' made his clothes into a bundle, said good-bye to all his friends, and boldly set out to seek his fortunes.

There was great excitement through all the village, and on the top of the hill the people stood holding their sides with laughing, as they watched the Star Gazer trudging bravely along the valley with his bundle at the end of his stick.

Done

egestas ornare.

per inceptos himenaeos. Donec ut ultricies velit.
Quisque tempor fermentum ante, quis tempus
est fringilla eu.

Contenere i float

Hand-stitched iPhone motif
More info

L'elemento contenitore non si
allunga per contenere il float

Nell'elemento contenitore devo dichiarare
overflow auto o hidden

```
#container {
  overflow: auto;
  width: 100%;
  background-color: #GGG;
  padding: 1em;
}
```

Hand-stitched iPhone motif
More info

Esempio: float-test.html

Esempi

- Navbar float

https://www.w3schools.com/css/tryit.asp?filename=trycss_dropdown_navbar

https://www.w3schools.com/css/css_image_gallery.asp

FLEXBOX DISPLAY

https://css-tricks.com/snippets/css/a-guide-to-flexbox/
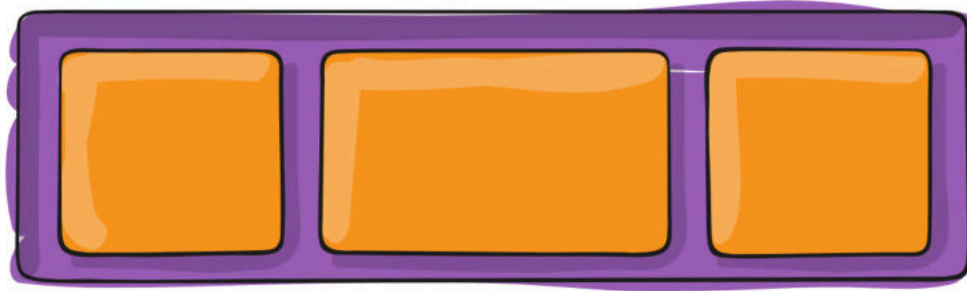
Flexbox

container

```
.container {
        display: flex; /* or inline-flex */
}
```


items
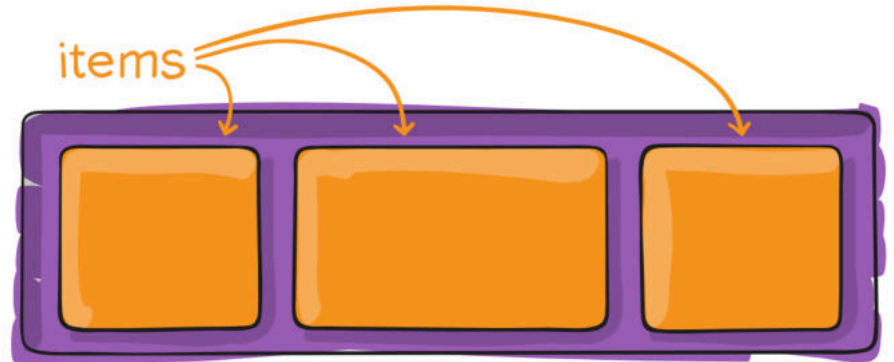
https://www.w3schools.com/css/css3_flexbox.asp

flex-direction
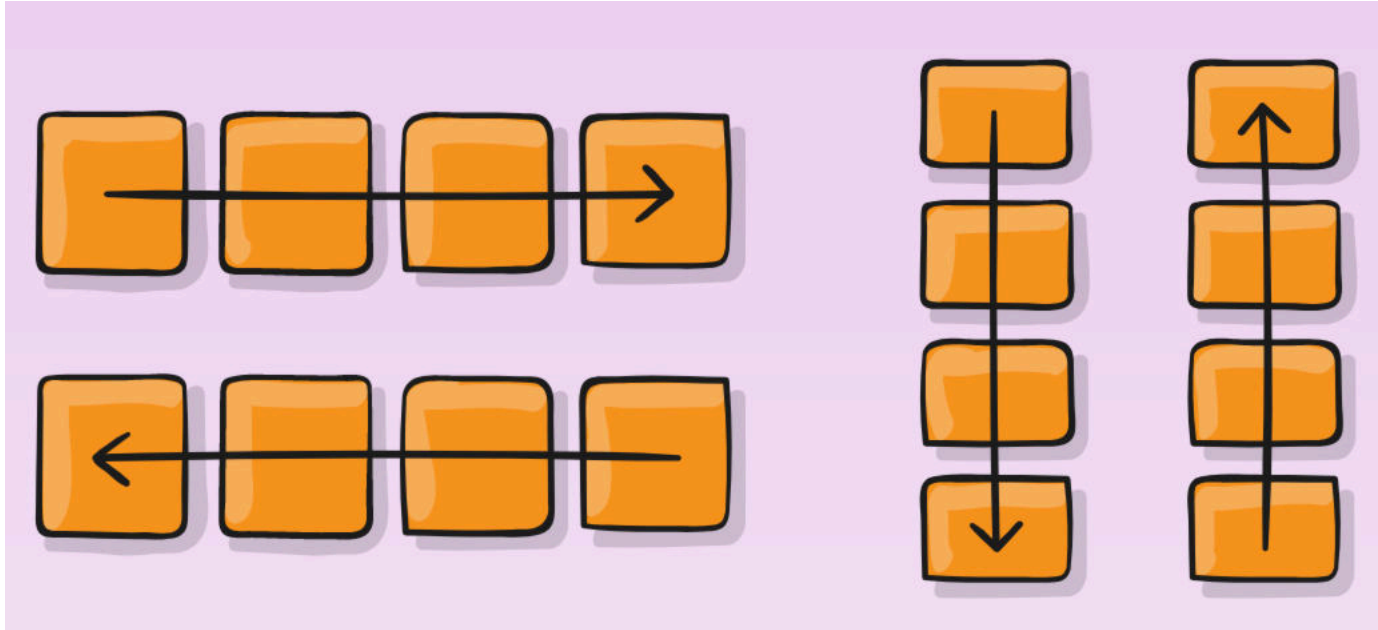
.container {
        flex-direction: row | row-reverse | column |
column-reverse;
}

fex-wrap
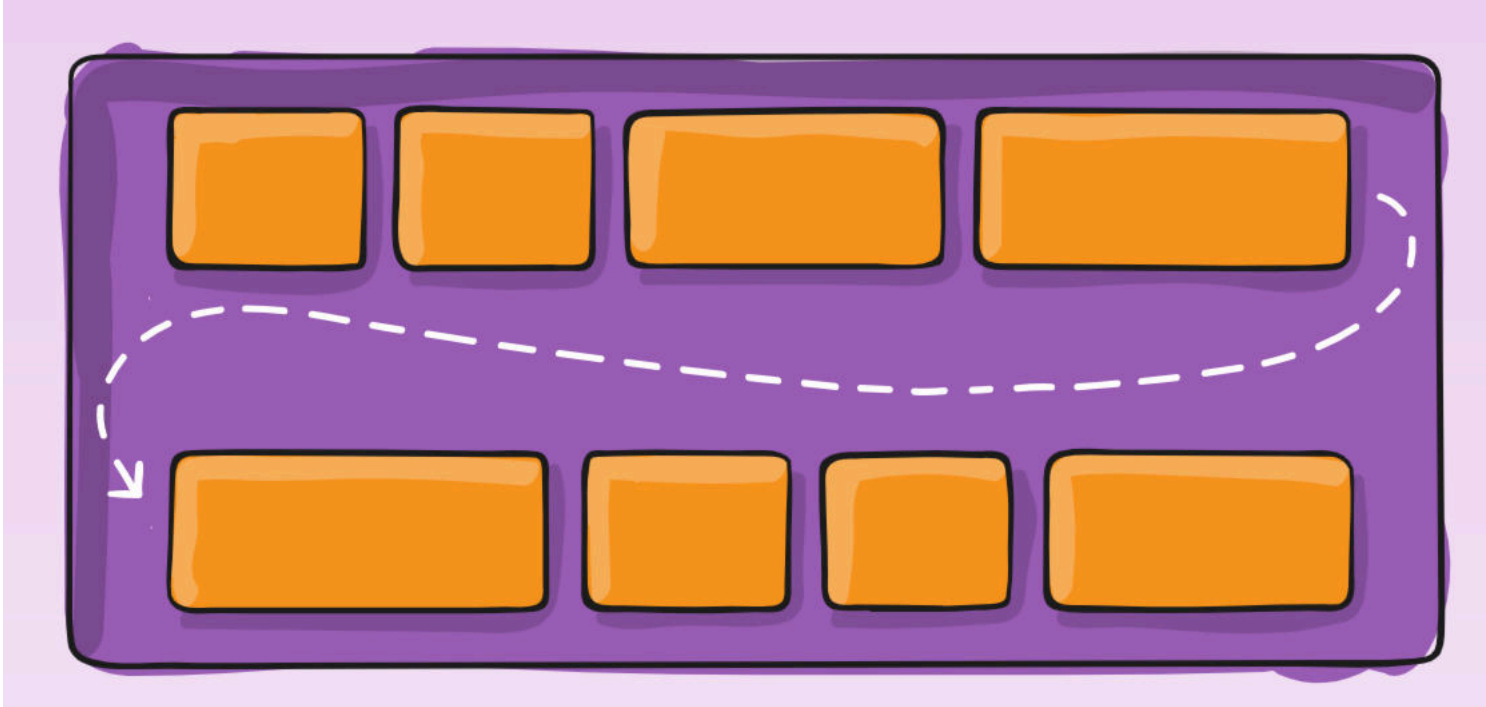

```
.container{
      flex-wrap: nowrap | wrap | wrap-reverse;
}
```

justify-content

```
.container {
        justify-content: …
}
```


flex-start

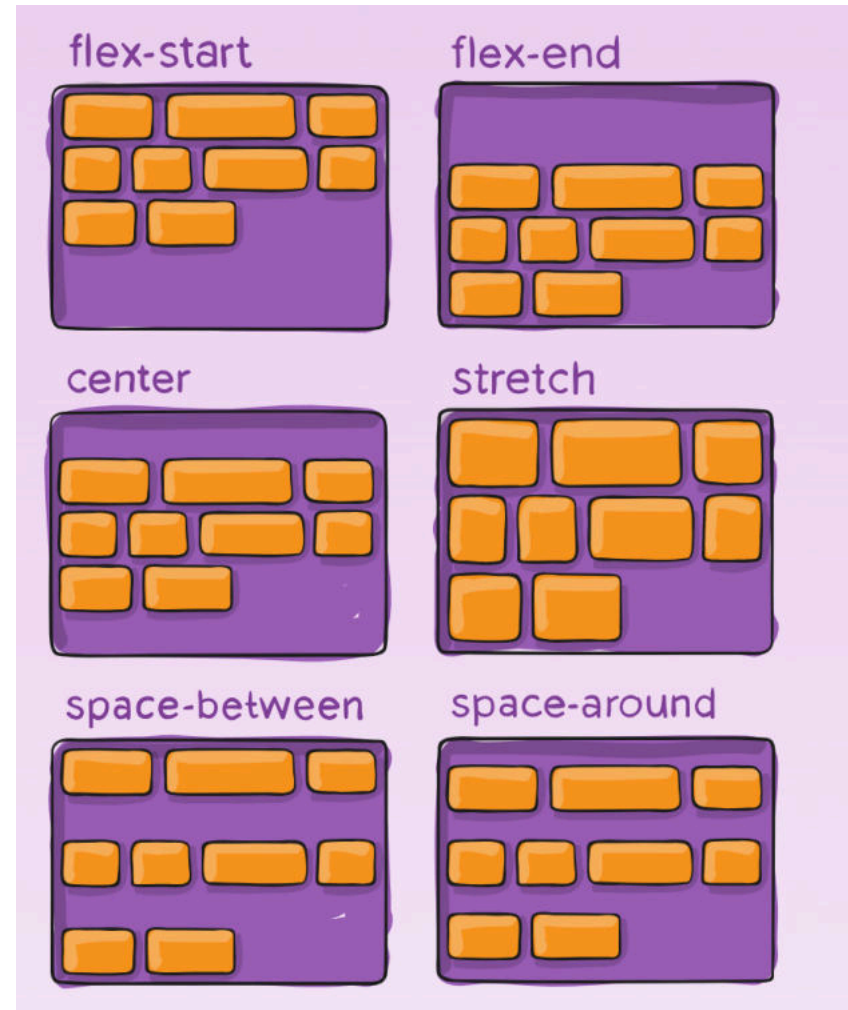flex-end
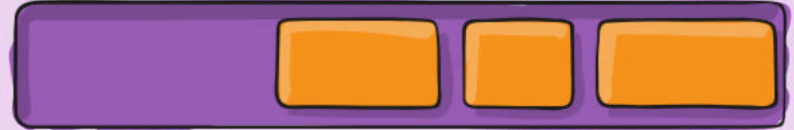
center

space-between

space-around

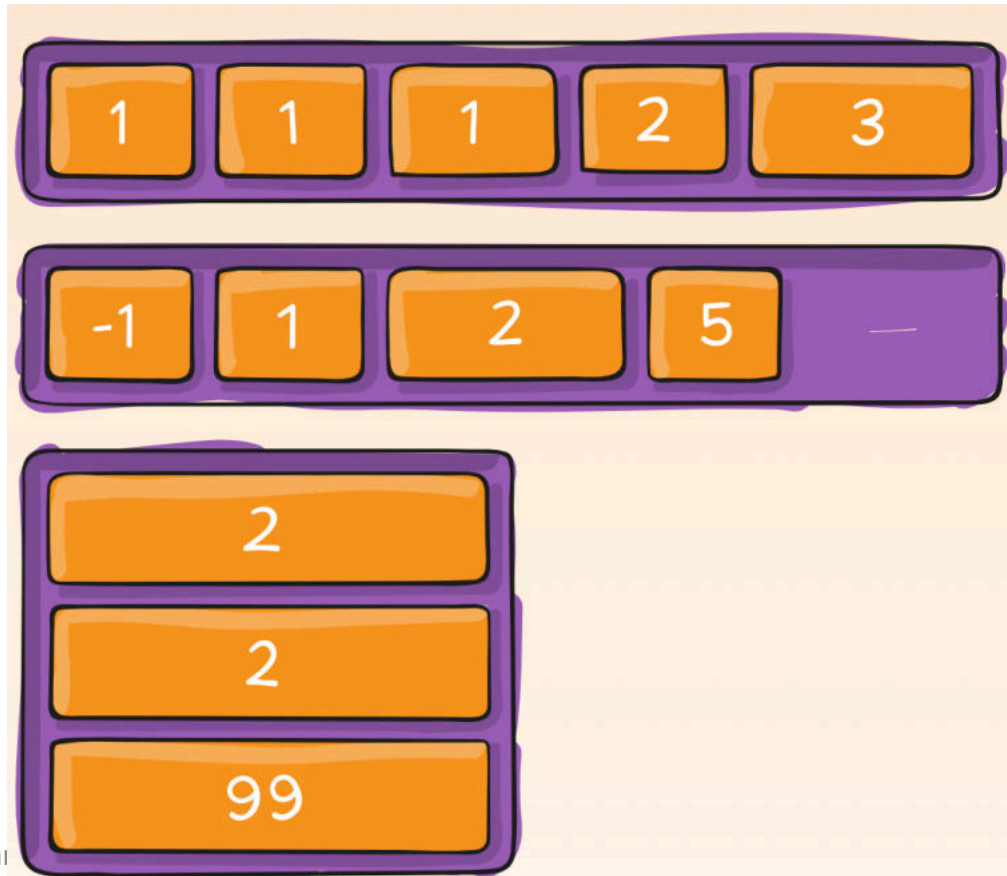space-evenly

align-items & align-content

align-items:
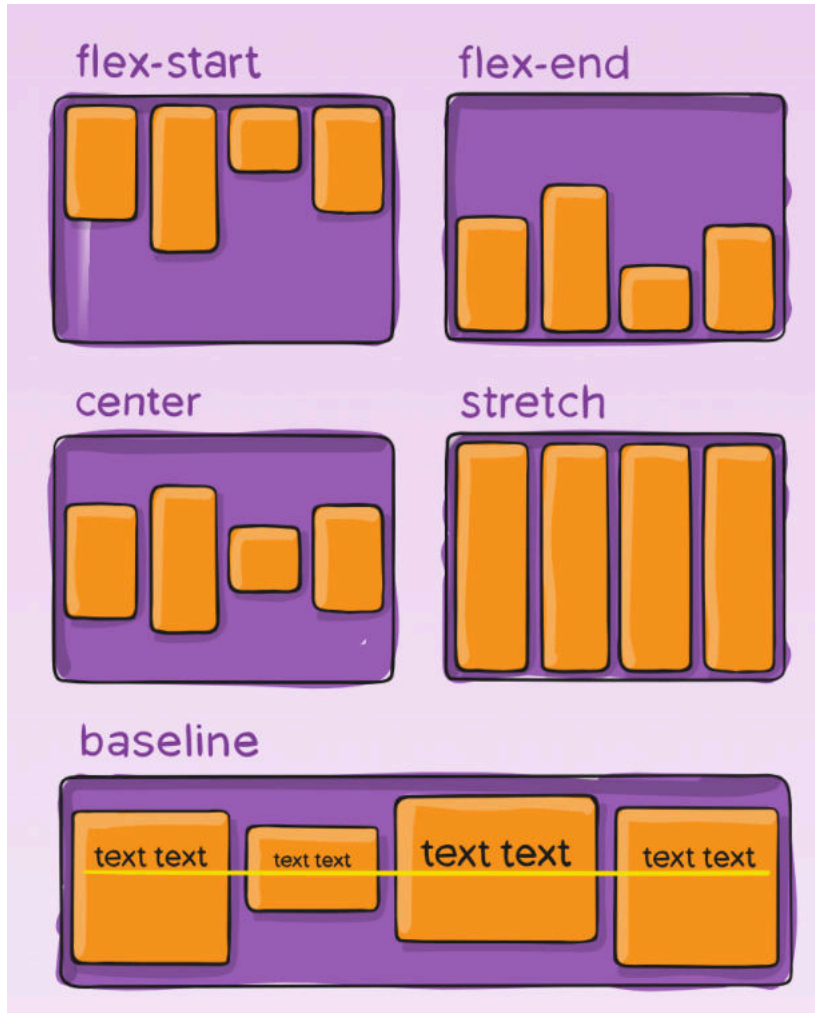
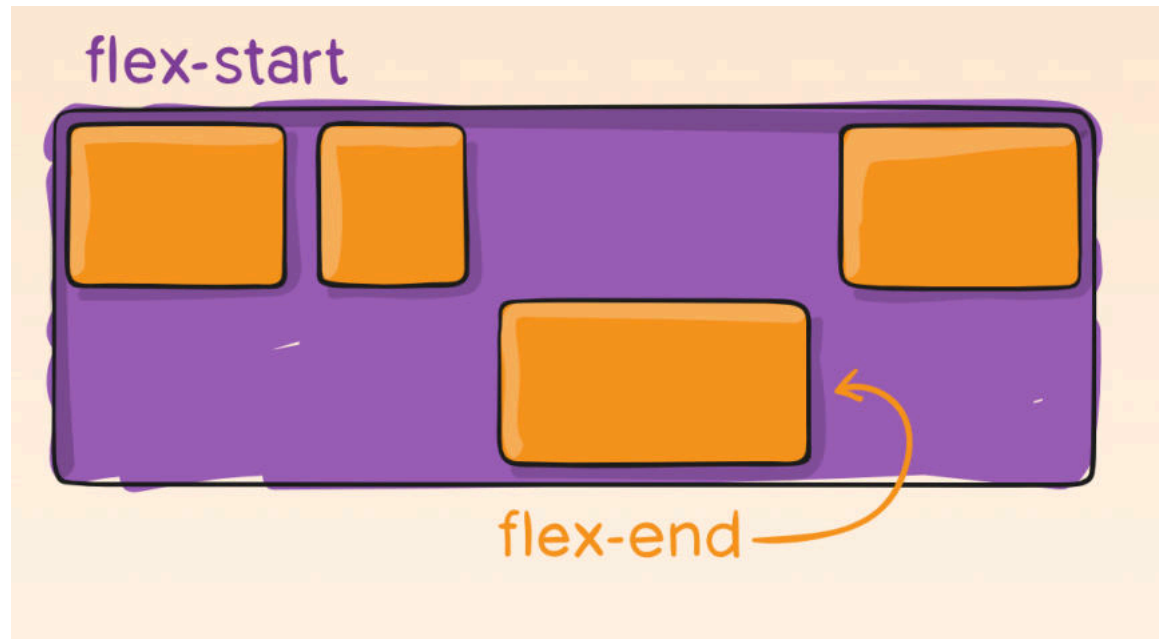**align-content:**

order

```
.item {
    order: <integer>; /* default is 0 */
}
```

align-self

```
.item {
        align-self: auto | flex-start | flex-end | center | baseline | stretch;
}
```

Menu

- Navigazione verticale o orizzontale
- tipicamente si applica uno stile ad una lista ul

Esempio: test-menu.html

Esempio: test-menu-sub.html