IntelliGrape | TO THE NEW DIGITAL

Intoduction to Flexbox Properties

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Agenda

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What is flexbox?

- Flexbox is **Flexible Box Layout Module**
- It is mainly a flexible container inshort flexbox
- CSS floats and clearfix hacks are very much popular to get proper multi-column layouts.
- Flexbox is an alternative for this.
- In future it can overcome Floats and clearfixs.
- It’s great for mobile screens and responsive content for dynamic layouts and webapps.

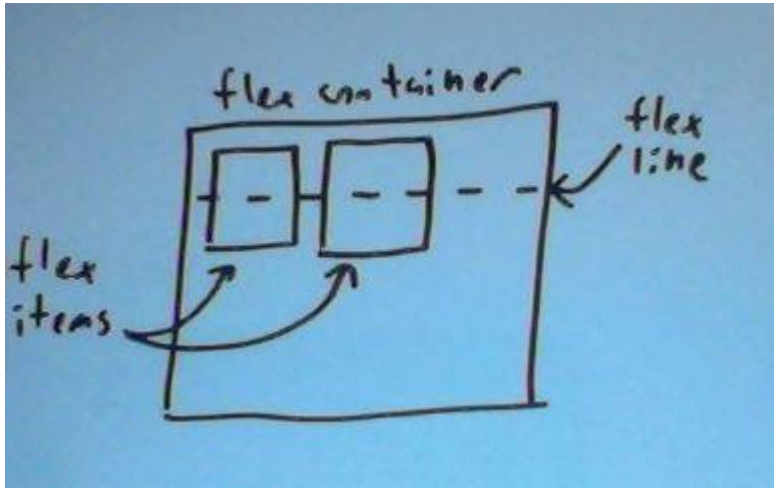
Syntax

HTML:

```
<div class="flex-container">
    <div class="flex-item">flex item 1</div>
    <div class="flex-item">flex item 2</div>
</div>
```

CSS

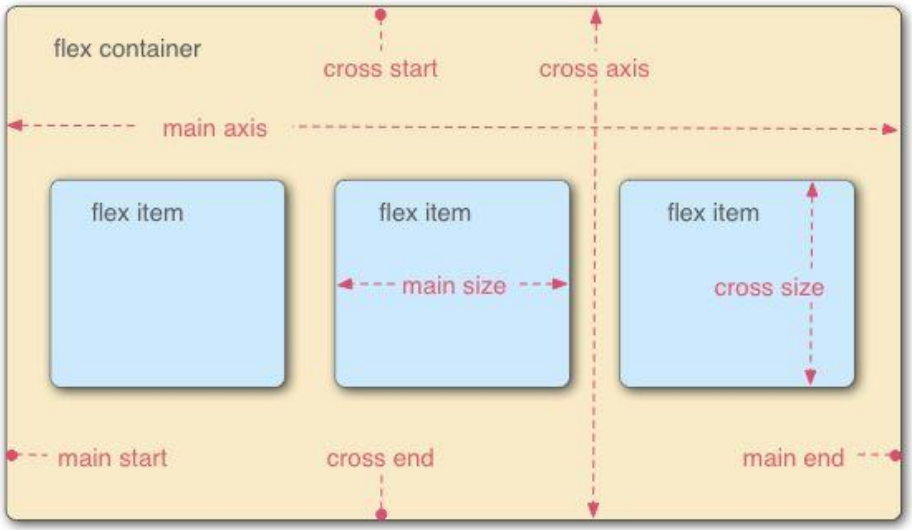
```
.flex-container {
    display: -webkit-flex;
    display: flex;
    width: 300px;
    height: 240px;
    background-color: Silver;
}
.flex-item {
    background-color: DeepSkyBlue;
    width: 100px;
    height: 100px;
}
```



The Keys to a Flexbox Layout

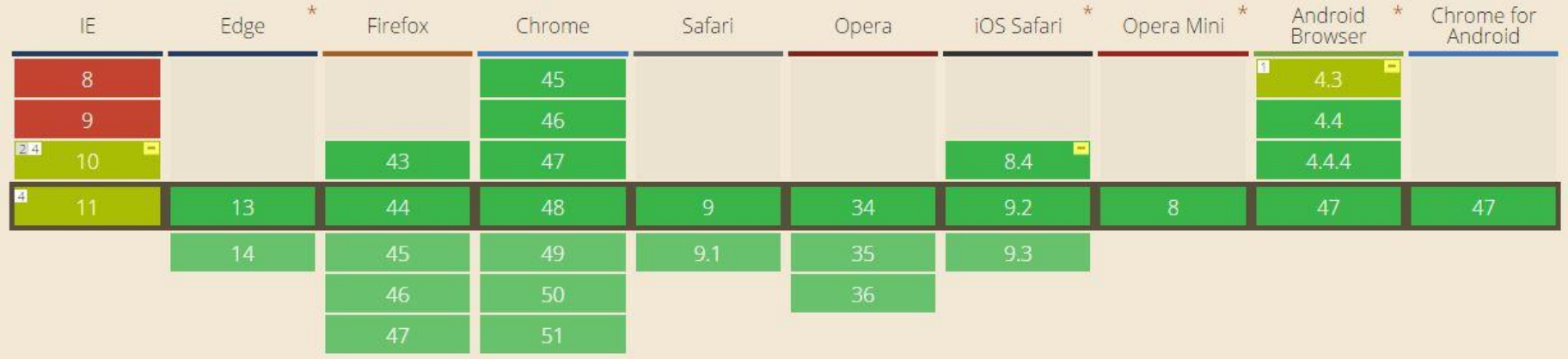
- Container: Flex container: display:flex
- Children: flex items: items
- Axes: Every flexible box layout follows two axes.
  - The **main axis** is the axis along which the flex items follow each other.
  - The **cross axis** is the axis perpendicular to the **main axis**.

- Direction/Flow of items: flex-direction



Browser Support

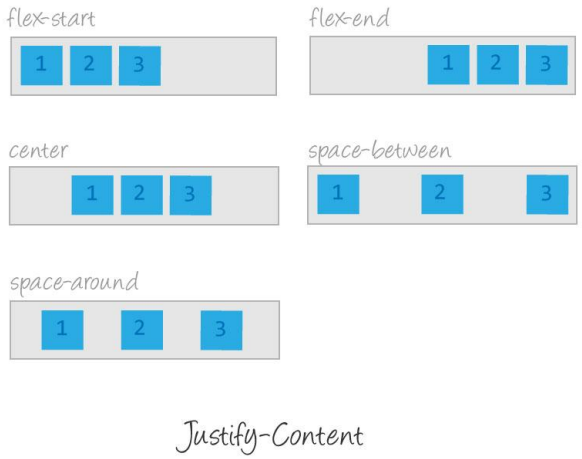
caniuse.com




```
display:-webkit-box; /*old prefixed for webkit*/
display:-moz-box; /*old prefixed for mozilla*/
display:-ms-flexbox; /*inbetween prefixed for ie*/
display:-webkit-flex; /*new prefixed for webkit*/
display:flex; /*new*/
```

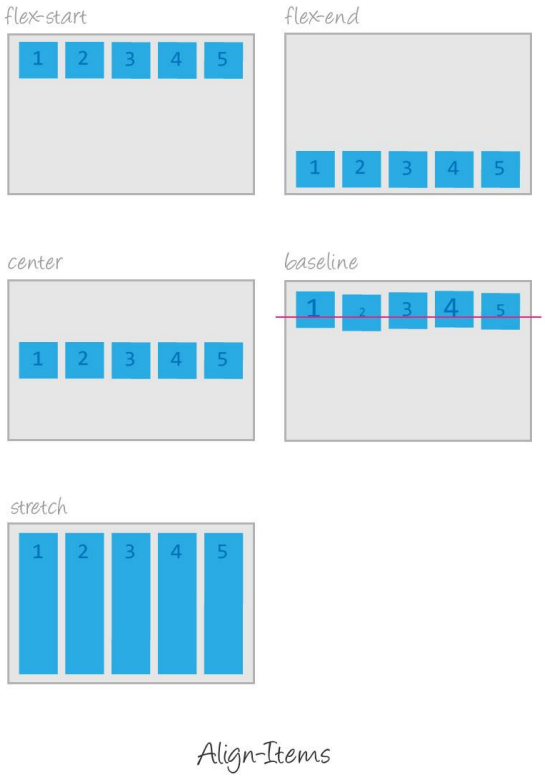
justify-content Property

- **justify-content:** aligns items horizontally, (along the main axis) and accepts the following values:
- **flex-start**: Items align to the left side of the container.
- **flex-end**: Items align to the right side of the container.
- **center**: Items align at the center of the container.
- **space-between**: Items display with equal spacing between them.
- **space-around**: Items display with equal spacing around them.



align-items/align-self Property (same)

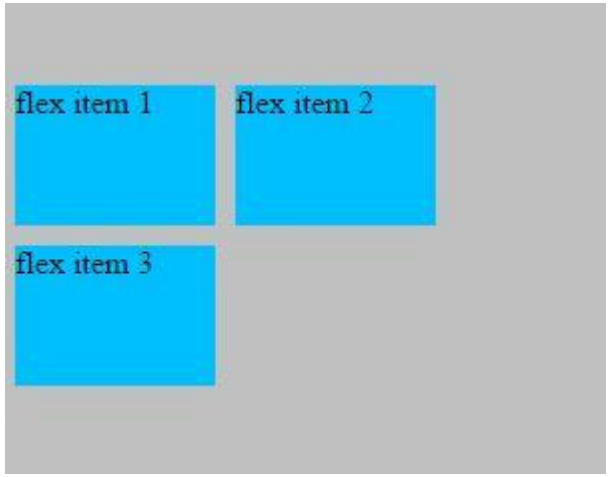
- **align-items:** aligns items vertically (along the cross axis) and accepts the following values:
- **flex-start**: Items align to the top of the container.
- **flex-end**: Items align to the bottom of the container.
- **center**: Items align at the vertical center of the container.
- **baseline**: Items display at the baseline of the container.
- **stretch**: Items are stretched to fit the container.



align-content Property

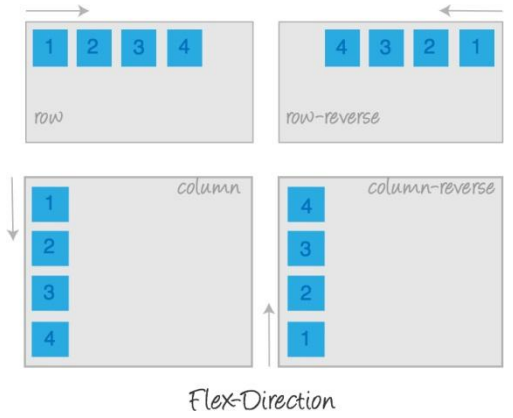
- align-content to set how multiple lines are spaced apart from each other. This property takes the following values:
- **flex-start:** Lines are packed at the top of the container.
- **flex-end:** Lines are packed at the bottom of the container.
- **center:** Lines are packed at the vertical center of the container.
- **space-between:** Lines display with equal spacing between them.
- **space-around:** Lines display with equal spacing around them.
- **Stretch:** Lines are stretched to fit the container.

NOTE: When there is only one line, align-content has no effect.



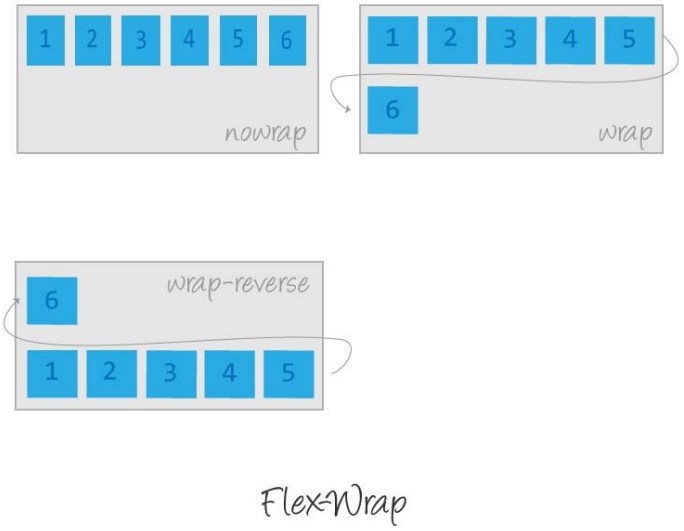
flex-direction Property

- **flex-direction**: defines the direction items are placed in the container, and accepts the following values:
- **row**: Items are placed the same as the text direction.
- **row-reverse**: Items are placed opposite to the text direction.
- **column**: Items are placed top to bottom.
- **column-reverse**: Items are placed bottom to top.



flex-wrap Property

- flex-wrap: nowrap | wrap | wrap-reverse**row**:
- Items are placed the same as the text direction.
- **nowrap:** Every item is fit to a single line.
- **wrap:** Items wrap around to additional lines.
- **wrap-reverse**: Items wrap around to additional lines in reverse.



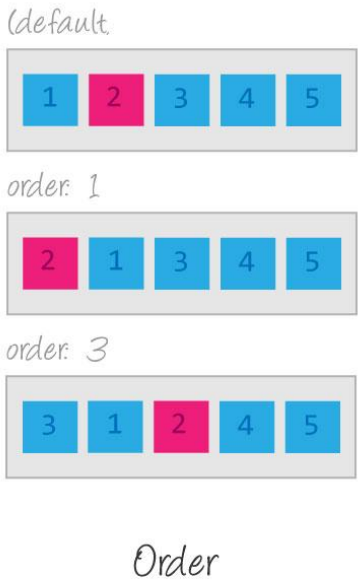
flex-flow Property

- The two properties flex-direction and flex-wrap are used so often together that the shorthand property flex-flow was created to combine them. This shorthand property accepts the value of one of the two properties separated by a space.
- For example, you can use flex-flow: row wrap to set rows and wrap them.

```
div {
    display: flex;
    flex-flow: row-reverse wrap;
}
```

Order

- Sometimes reversing the row or column order of a container is not enough. In these cases, we can apply the order property to individual items. By default, items have a value of 0, but we can use this property to set it to a positive or negative integer value.
- Order <integer>



Order

ANY QUERIES

Thank you