

HTML5 & CSS3



What's new?

New elements

Element	Description
<code><address></code>	The HTML <address> element supplies contact information for its nearest <code><article></code> or <code><body></code> ancestor; in the latter case, it applies to the whole document.
<code><article></code>	The HTML <article> element represents a self-contained composition in a document, page, application, or site, which is intended to be independently distributable or reusable (e.g., in syndication). This could be a forum post, a magazine or newspaper article, a blog entry, an object, or any other independent item of content. Each <code><article></code> should be identified, typically by including a heading (<code><h1></code> - <code><h6></code> element) as a child of the <code><article></code> element.
<code><aside></code>	The HTML <i><aside> element</i> represents a section of the page with content connected tangentially to the rest, which could be considered separate from that content. These sections are often represented as sidebars or inserts. They often contain the definitions on the sidebars, such as definitions from the glossary; there may also be other types of information, such as related advertisements; the biography of the author; web applications; profile information or related links on the blog.
<code><footer></code>	The HTML <footer> element represents a footer for its nearest sectioning content or sectioning root element. A footer typically contains information about the author of the section, copyright data or links to related documents.

New elements

Element	Description
<code><header></code>	The HTML <header> element represents a group of introductory or navigational aids. It may contain some heading elements but also other elements like a logo, wrapped section's header, a search form, and so on.
<code><h1></code> , <code><h2></code> , <code><h3></code> , <code><h4></code> , <code><h5></code> , <code><h6></code>	Heading elements implement six levels of document headings, <code><h1></code> is the most important and <code><h6></code> is the least. A heading element briefly describes the topic of the section it introduces. Heading information may be used by user agents, for example, to construct a table of contents for a document automatically.
<code><hgroup></code>	The HTML <hgroup> Element (<i>HTML Headings Group Element</i>) represents the heading of a section. It defines a single title that participates in the outline of the document as the heading of the implicit or explicit section that it belongs to.
<code><nav></code>	The HTML <nav> element (<i>HTML Navigation Element</i>) represents a section of a page that links to other pages or to parts within the page: a section with navigation links.
<code><section></code>	The HTML <section> element represents a generic section of a document, i.e., a thematic grouping of content, typically with a heading. Each <code><section></code> should be identified, typically by including a heading (<code><h1></code> - <code><h6></code> element) as a child of the <code><section></code> element.

Resources

[More new stuff in HTML5](#)

[Cool new stuff](#)

[HTML5 Boilerplate](#)



Advanced selectors & Layout

Selectors

```
1 * {  
2   margin: 0;  
3   padding: 0;  
4 }
```

```
1 #container * {  
2   border: 1px solid black;  
3 }
```

```
1 .error {  
2   color: red;  
3 }
```

```
1 li a {  
2   text-decoration: none;  
3 }
```

```
1 a { color: red; }  
2 ul { margin-left: 0; }
```

```
1 a:link { color: red; }  
2 a:visted { color: purple; }
```

```
1 ul + p {  
2   color: red;  
3 }
```

```
1 div#container > ul {  
2   border: 1px solid black;  
3 }
```



```
01 <div id="container">
02   <ul>
03     <li> List Item
04       <ul>
05         <li> Child </li>
06       </ul>
07     </li>
08     <li> List Item </li>
09     <li> List Item </li>
10     <li> List Item </li>
11   </ul>
12 </div>
```

```
1 a[href="http://google.com"] {  
2   color: #1f6053; /* green */  
3 }
```

```
1 input[type=radio]:checked {  
2   border: 1px solid black;  
3 }
```

```
1 div:hover {  
2   background: #e3e3e3;  
3 }
```

```
1 li:nth-child(3) {  
2   color: red;  
3 }
```

```
1 ul li:first-child {  
2   border-top: none;  
3 }
```

[In-depth explanations are here](#)

Layout

In the past:

`float: left`

Today:

`display: flex`

Flexbox

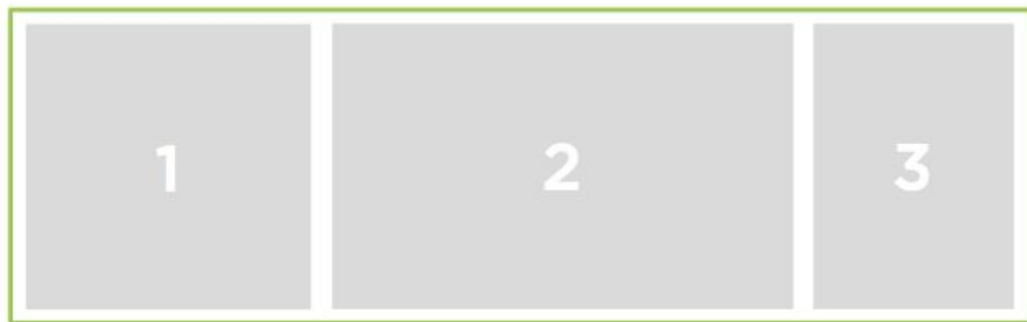
A Set of CSS
Properties

Creating
Flexible
Layouts

Distributing
Extra Space

Aligning
Content

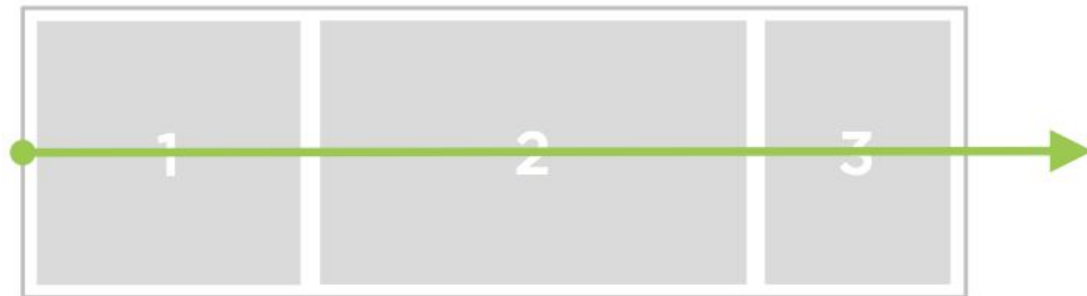
Flex Container



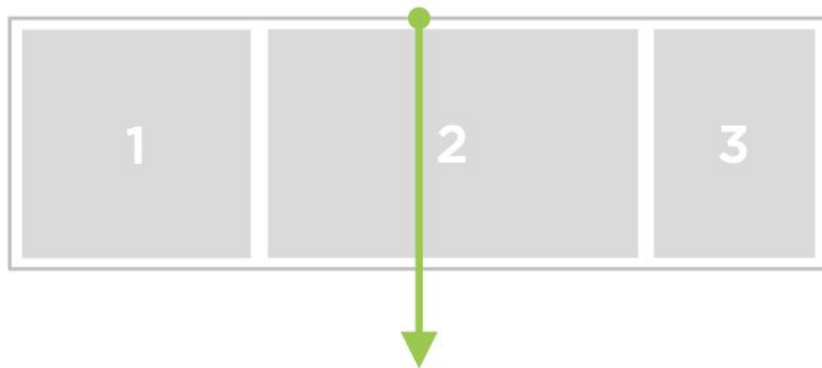
Flex Items



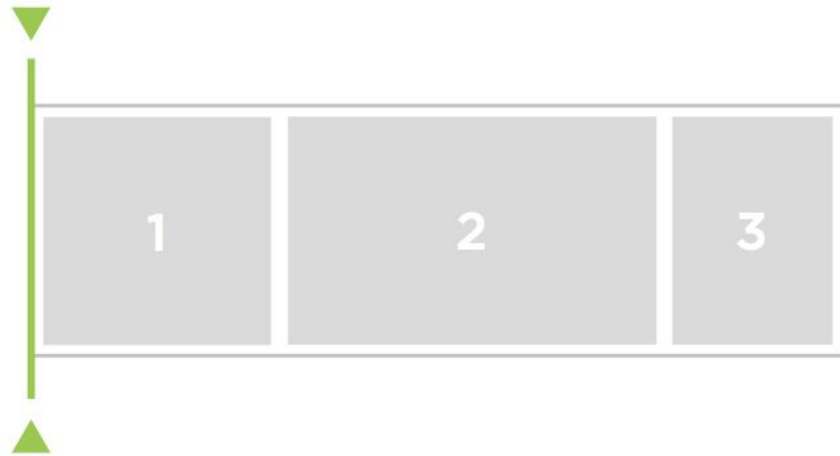
Main Axis



Cross Axis



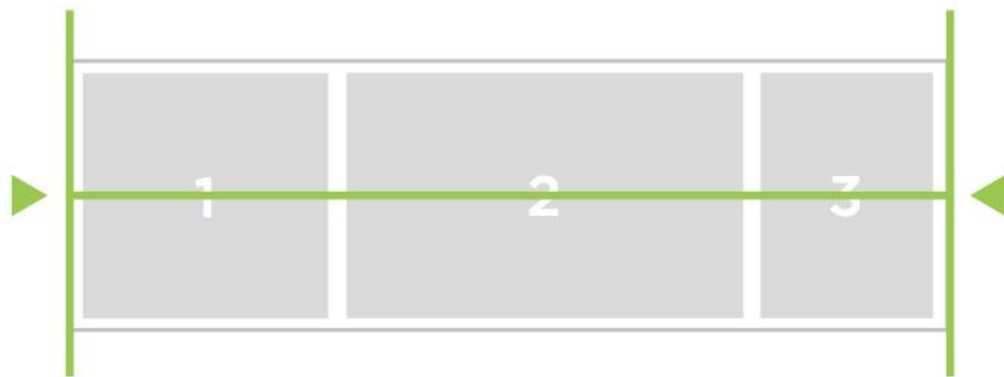
Main Start



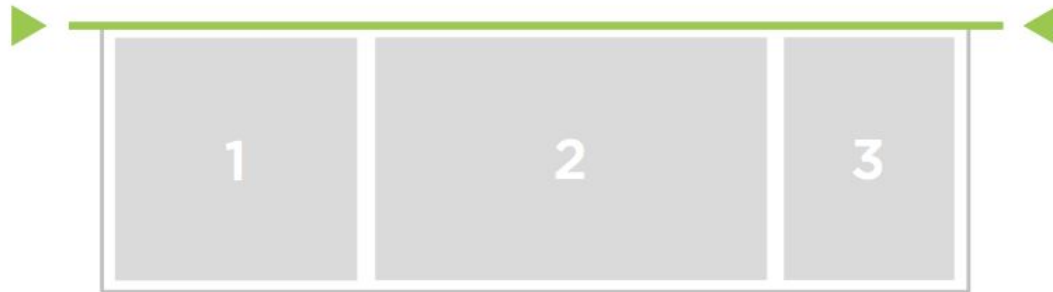
Main End



Main Size



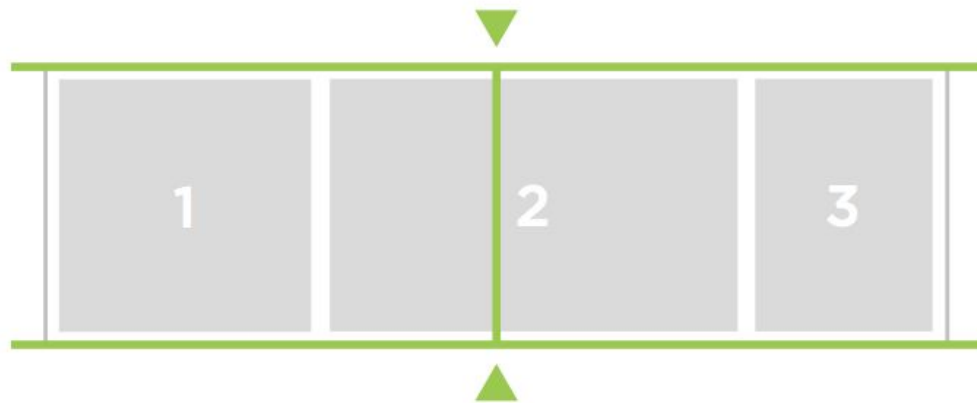
Cross Start



Cross End



Cross Size



Examples

Flexbox in action

Resources

[Flexbox cheatsheet](#)

[Flexfroggy](#)

[Some real-world examples](#)

[More real-world examples](#)

Also don't miss the [bugs](#), [grids](#) and a [nice gallery example](#)
