

Flex

CSS Flex-box



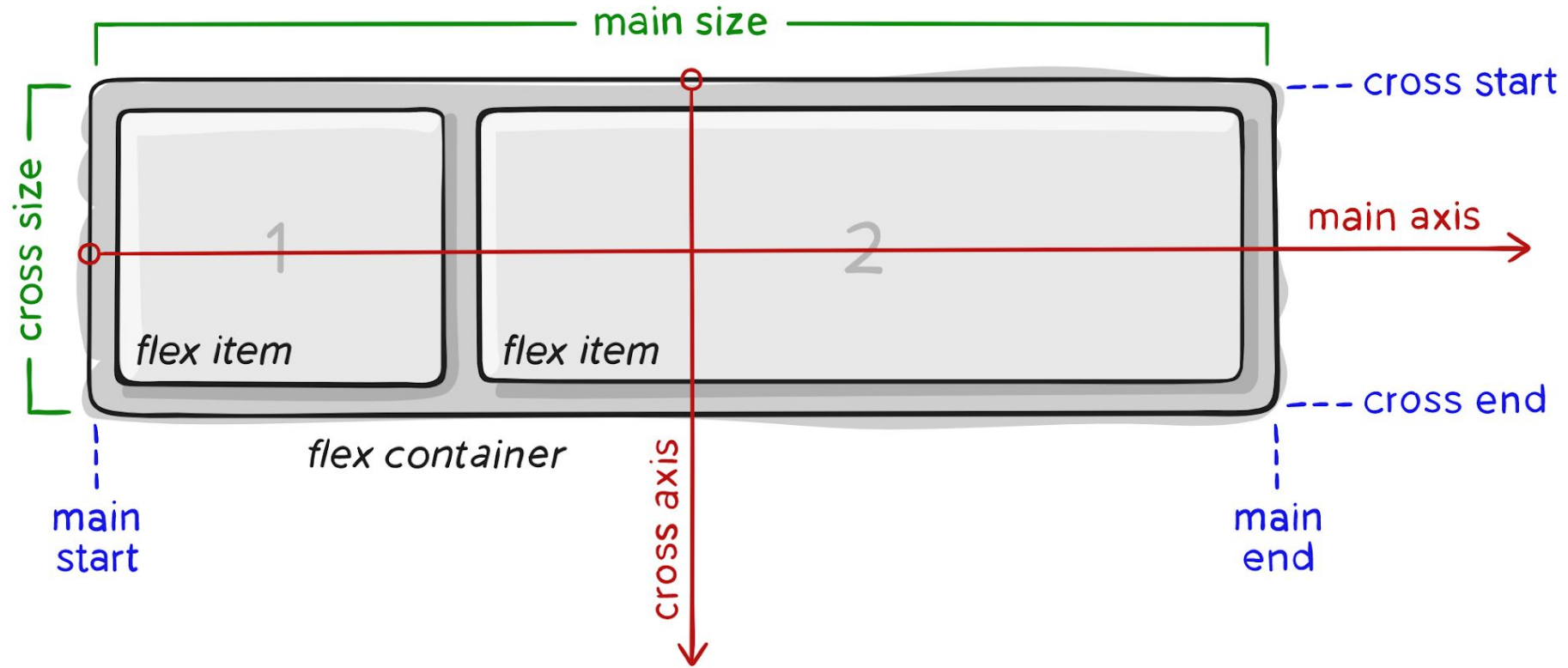
CSS3 Flexbox

- Flexible boxes, or flexbox, is a new layout mode in CSS3.
 - Use of flexbox ensures that elements behave predictably when the page layout must accommodate different screen sizes and different display devices.
 - For many applications, the flexible box model provides an improvement over the block model in that it does not use floats, nor do the flex container's margins collapse with the margins of its contents.
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CSS3 Flexbox Concepts

- Flexbox consists of flex containers and flex items.
- A flex container is declared by setting the **display** property of an element to either flex (rendered as a block) or inline-flex (rendered as inline).
- Inside a flex container there is one or more flex items.

Note: Everything outside a flex container and inside a flex item is rendered as usual. Flexbox defines how flex items are laid out inside a flex container. Flex items are positioned inside a flex container along a flex line. By default there is only one flex line per flex container.



Flexbox

Container Property

Flex Direction

- The flex-direction property specifies the direction of the flexible items inside the flex container. The default value of flex-direction is row (left-to-right, top-to-bottom).
 - The other values are as follows:
 - **row-reverse** - If the writing-mode (direction) is left to right, the flex items will be laid out right to left
 - **column** - If the writing system is horizontal, the flex items will be laid out vertically
 - **column-reverse** - Same as column, but reversed
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The justify-content Property

- The justify-content property horizontally aligns the flexible container's items when the items do not use all available space on the main-axis.
 - The possible values are as follows:
 - **flex-start** - Default value. Items are positioned at the beginning of the container
 - **flex-end** - Items are positioned at the end of the container
 - **center** - Items are positioned at the center of the container
 - **space-between** - Items are positioned with space between the lines
 - **space-around** - Items are positioned with space before, between, and after the lines
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The flex-wrap Property

- The flex-wrap property specifies whether the flex items should wrap or not, if there is not enough room for them on one flex line.
 - The possible values are as follows:
 - **nowrap** - Default value. The flexible items will not wrap
 - **wrap** - The flexible items will wrap if necessary
 - **wrap-reverse** - The flexible items will wrap, if necessary, in reverse order
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Flexbox

Flex Item Property

flex

- The flex property specifies the length of the flex item, relative to the rest of the flex items inside the same container.

```
.item1 {  
  -webkit-flex: 2;  
  flex: 2;  
}
```

```
.item2 {  
  -webkit-flex: 1;  
  flex: 1;  
}
```

```
.item3 {  
  -webkit-flex: 1;  
  flex: 1;  
}
```
