



JONAS.IO
SCHMEDTMANN

BUILD RESPONSIVE REAL-WORLD WEBSITES WITH HTML AND CSS

 @JONASSCHMEDTMAN

SECTION

LAYOUTS: FLOATS, FLEXBOX, AND
CSS GRID FUNDAMENTALS

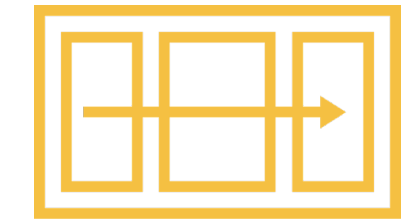
LECTURE

A FLEXBOX OVERVIEW



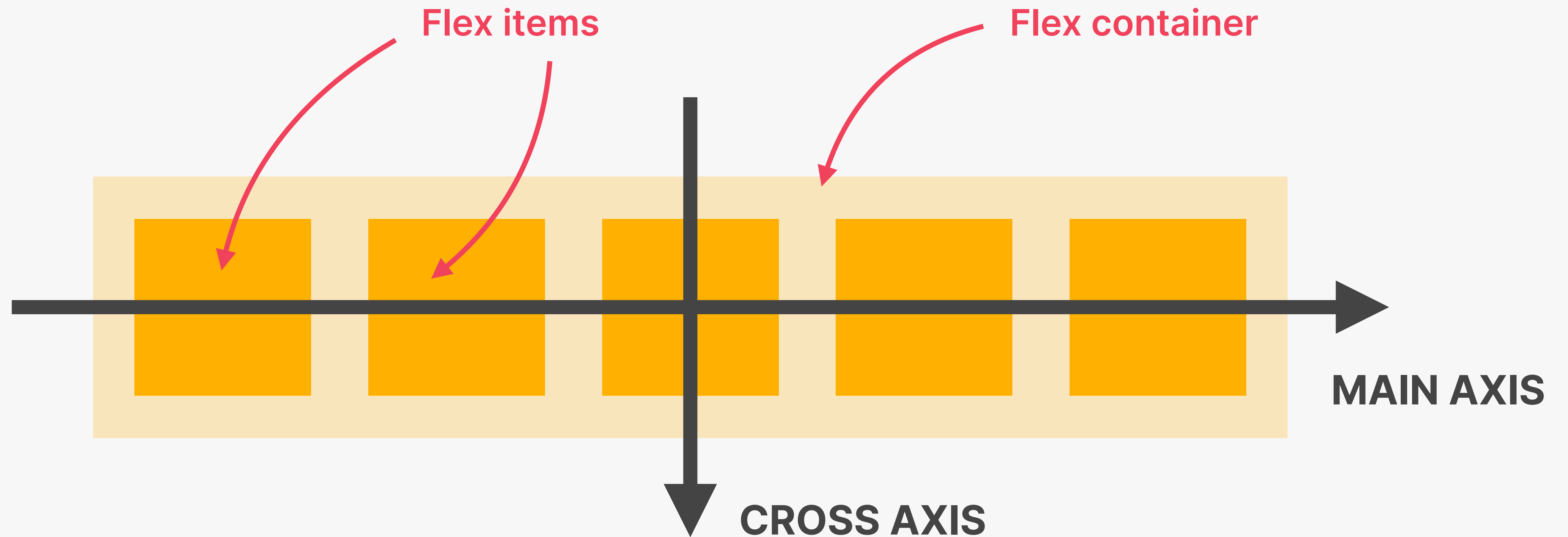
WHAT IS FLEXBOX?

FLEXBOX



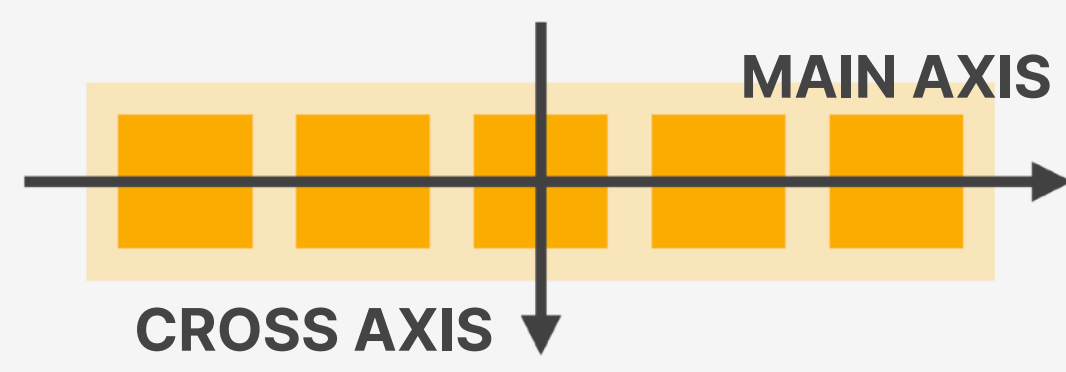
- 👉 Flexbox is a set of related **CSS properties** for **building 1-dimensional layouts**
- 👉 The main idea behind flexbox is that empty space inside a container element can be **automatically divided** by its child elements
- 👉 Flexbox makes it easy to automatically **align items to one another** inside a parent container, both horizontally and vertically
- 👉 Flexbox solves common problems such as **vertical centering** and creating **equal-height columns**
- 👉 Flexbox is perfect for **replacing floats**, allowing us to write fewer and cleaner HTML and CSS code

FLEXBOX TERMINOLOGY



```
display: flex
```

FLEX CONTAINER



FLEX ITEMS

- 1** `gap: 0 | <length>`
👉 To create **space between items**, without using margin
- 2** `justify-content: flex-start | flex-end | center | space-between | space-around | space-evenly`
👉 To align items along main axis (**horizontally**, by default)
- 3** `align-items: stretch | flex-start | flex-end | center | baseline`
👉 To align items along cross axis (**vertically**, by default)
- 4** `flex-direction: row | row-reverse | column | column-reverse`
👉 To define which is the **main axis**
- 5** `flex-wrap: nowrap | wrap | wrap-reverse`
👉 To allow items to **wrap into a new line** if they are too large
- 6** `align-content: stretch | flex-start | flex-end | center | space-between | space-around`
👉 Only applies when there are **multiple lines** (`flex-wrap: wrap`)

- 1** `align-self: auto | stretch | flex-start | flex-end | center | baseline`
👉 To **overwrite** `align-items` for individual flex items
- 2** `flex-grow: 0 | <integer>`
👉 To allow an element **to grow** (0 means no, 1+ means yes)
- 3** `flex-shrink: 1 | <integer>`
👉 To allow an element **to shrink** (0 means no, 1+ means yes)
- 4** `flex-basis: auto | <length>`
👉 To define an item's width, **instead of the width** property
- 5** `flex: 0 1 auto | <int> <int> <len>`
👉 **Recommended** shorthand for `flex-grow`, `-shrink`, `-basis`.
- 6** `order: 0 | <integer>`
👉 Controls order of items. -1 makes item **first**, 1 makes it **last**



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