

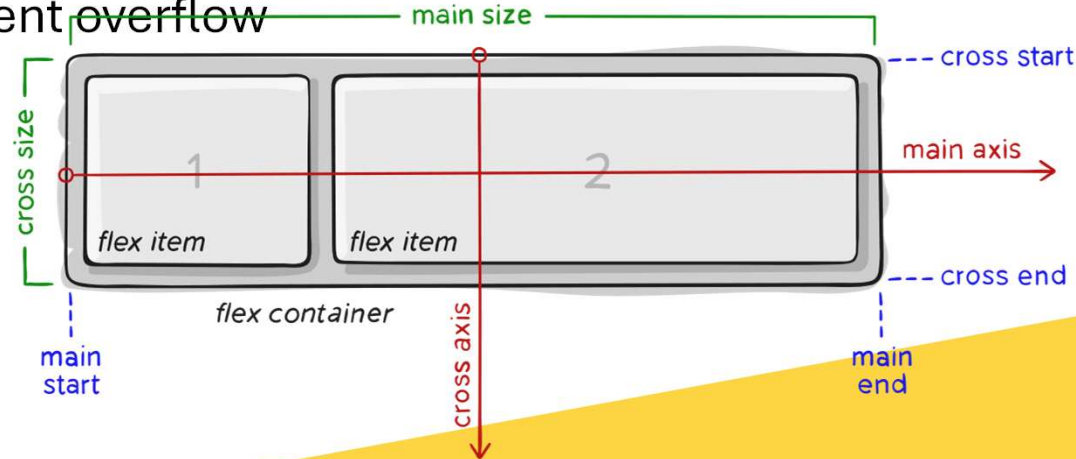
MODULE 3: FRONT END

CSS Layouts with Flexbox



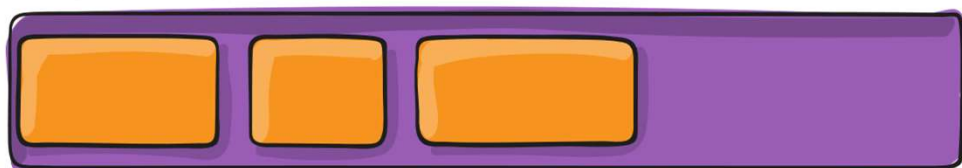
Modern Layout

- Flex box (a W3C Candidate Recommendation as of October 2017)
 - Providing a more efficient way to lay out, align and distribute space among items in a container
 - A flex container expands items to fill available free space, or shrinks them to prevent overflow

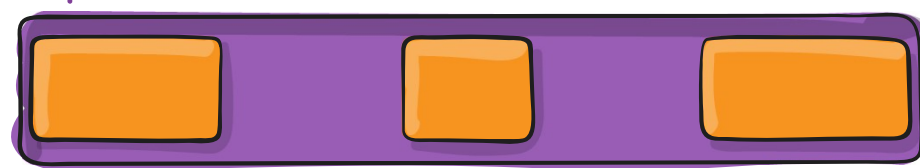


justify-content

flex-start



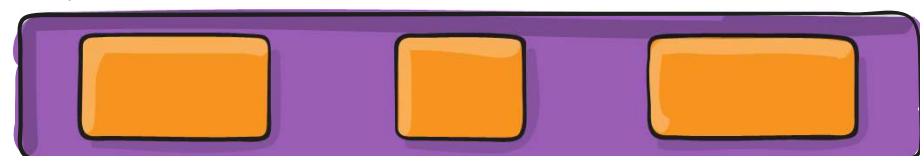
space-between



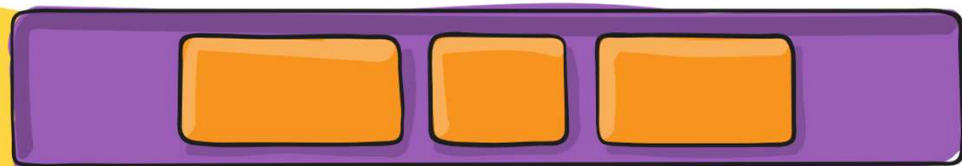
flex-end



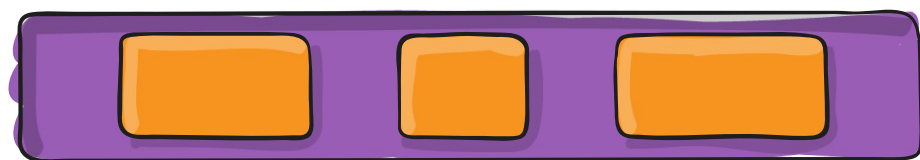
space-around



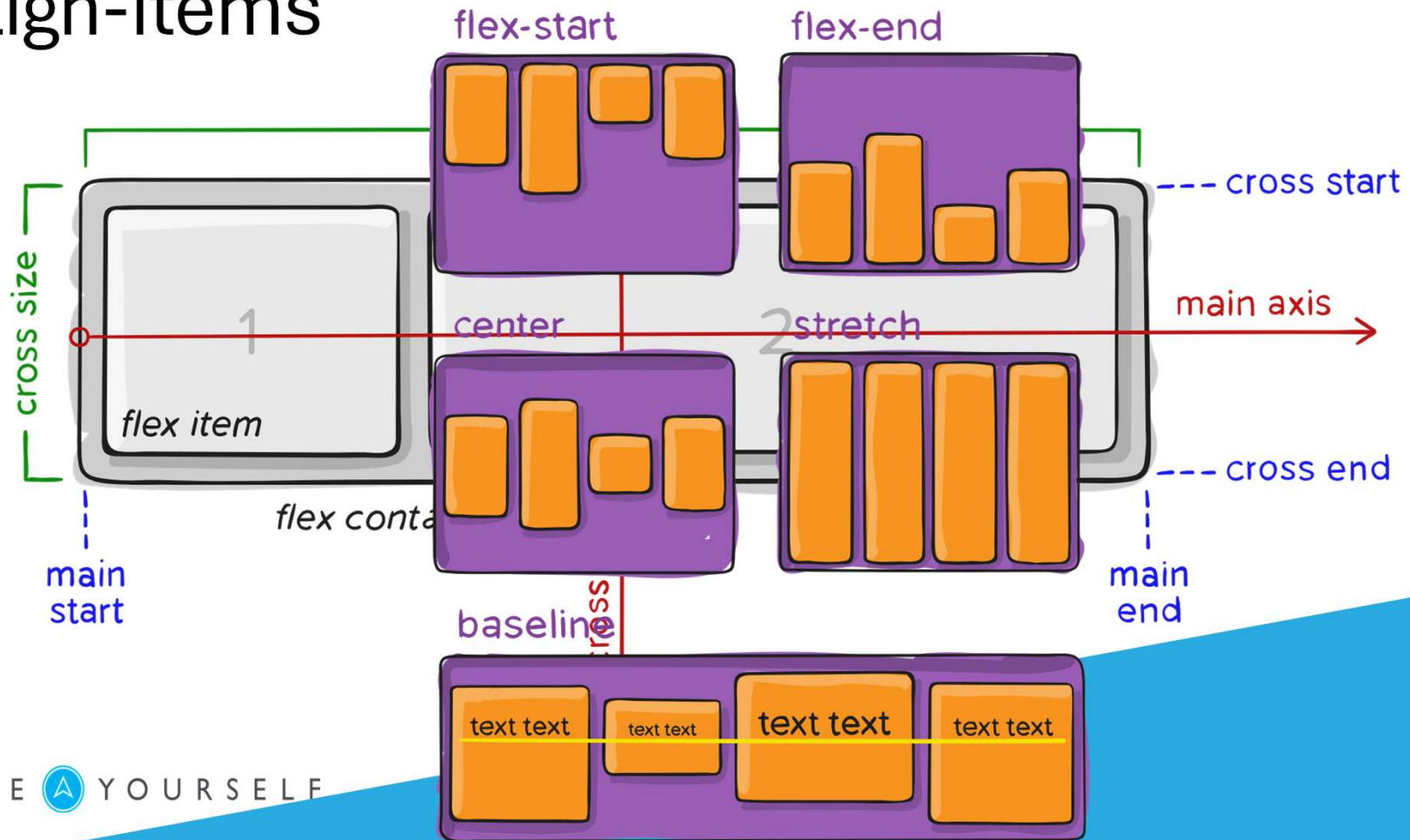
center



space-evenly



align-items

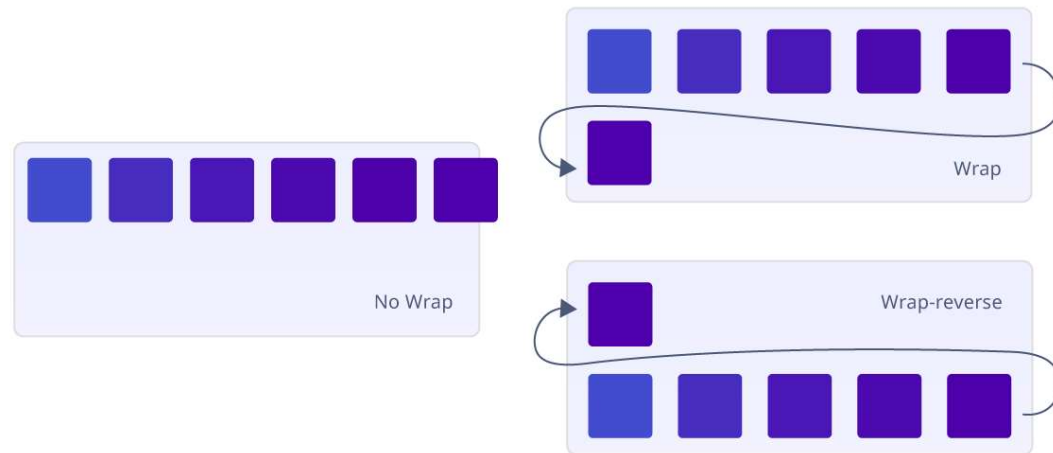


flex-wrap

nowrap (default): all flex items will be on one line

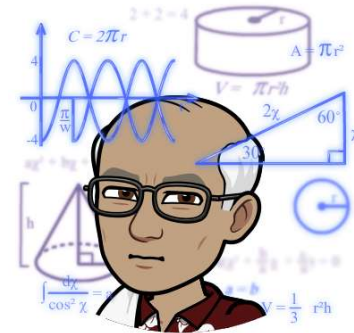
wrap: flex items will wrap onto multiple lines, from top to bottom.

wrap-reverse: flex items will wrap onto multiple lines from bottom to top.



Dynamic Sizing flex items

- **flex-basis:** The base size of the flex item.
 - Functionally similar to width or height, depending on the direction of the flex container, however, it will override width or height.
 - Like width and height, flex-basis can be defined in absolute pixels or relative sizing using percentages or the viewport.
- **flex-grow:** How much a flex item will grow relative to other flex items.
- **flex-shrink:** How much a flex item will shrink relative to other flex items



Dynamic Sizing flex items

- **flex-grow**

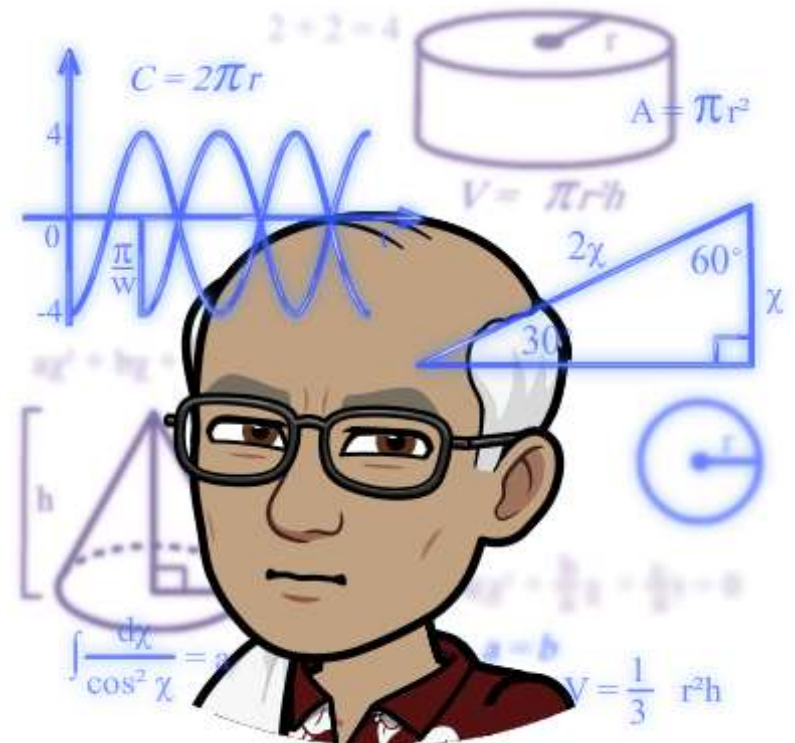
$$\left(\frac{\text{flex-grow}}{\text{total flex-grow}} \times \text{available space} \right) + \text{Item width}$$

- **flex-shrink**

$$\text{total shrink scaled width} = \sum (\text{width} \times \text{flex shrink})$$

$$\text{shrink ratio} = (\text{width} \times \text{flex shrink}) / \text{total shrink scaled width}$$

$$\text{new width} = \text{width} - (\text{shrunk space} \times \text{shrink ratio})$$



What to build



Featured Menu Items

		
Carrots for Good Eye Sight Lorem ipsum dolor sit, amet consectetur adipiscing elit. Asperiores labore repudiandae cum amet accusamus officis!	Fish for Breakfast - Yay! Lorem, ipsum dolor sit amet consectetur adipiscing elit. Beatae similique quas voluptate enim architecto, exercitationem cumque eum nihil modi obcaecati suscipit accusantium corrupti omnis facilis.	Cheese and More Cheese Lorem ipsum dolor sit amet consectetur adipiscing elit. Nobis expedita perferendis non labore ipsum quis incidunt iste animi atque vitae?

All Menu Items

Pizza By the Slice Lorem ipsum dolor sit amet consectetur adipiscing elit. Ad perspiciatis tempora adipisci provident vero, blanditiis doloremque maiores neque suscipit velit saepe consequatur error odit amet corporis facere dolorem illo? Excepturi optio earum suscipit. Natus repellendus expedita deleniti optio, temporibus libero ad veritatis dolorem totam vero.	Custard - Yum! Lorem ipsum dolor sit amet consectetur adipiscing elit. Ad perspiciatis tempora adipisci provident vero, blanditiis doloremque maiores neque suscipit velit saepe consequatur error odit amet corporis facere dolorem illo? Excepturi optio earum suscipit. Natus repellendus expedita deleniti optio, temporibus libero ad veritatis dolorem totam vero.
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LET'S CODE!



WHAT QUESTIONS DO
YOU HAVE?



Reading for tonight:
Introduction to JavaScript

