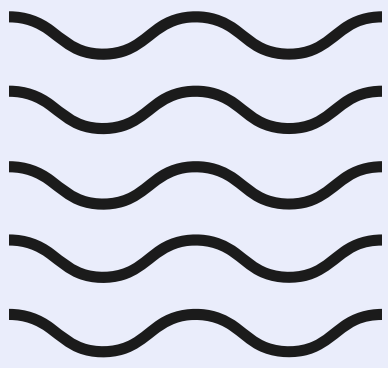


# CSS FLEXBOX



ПОДГОТОВИЛ: АЛИШЕР ХАМИДОВ



# План лекции

## Основные моменты:

1. Flexbox
2. Main axis and cross axis
3. Container properties
4. Properties of item

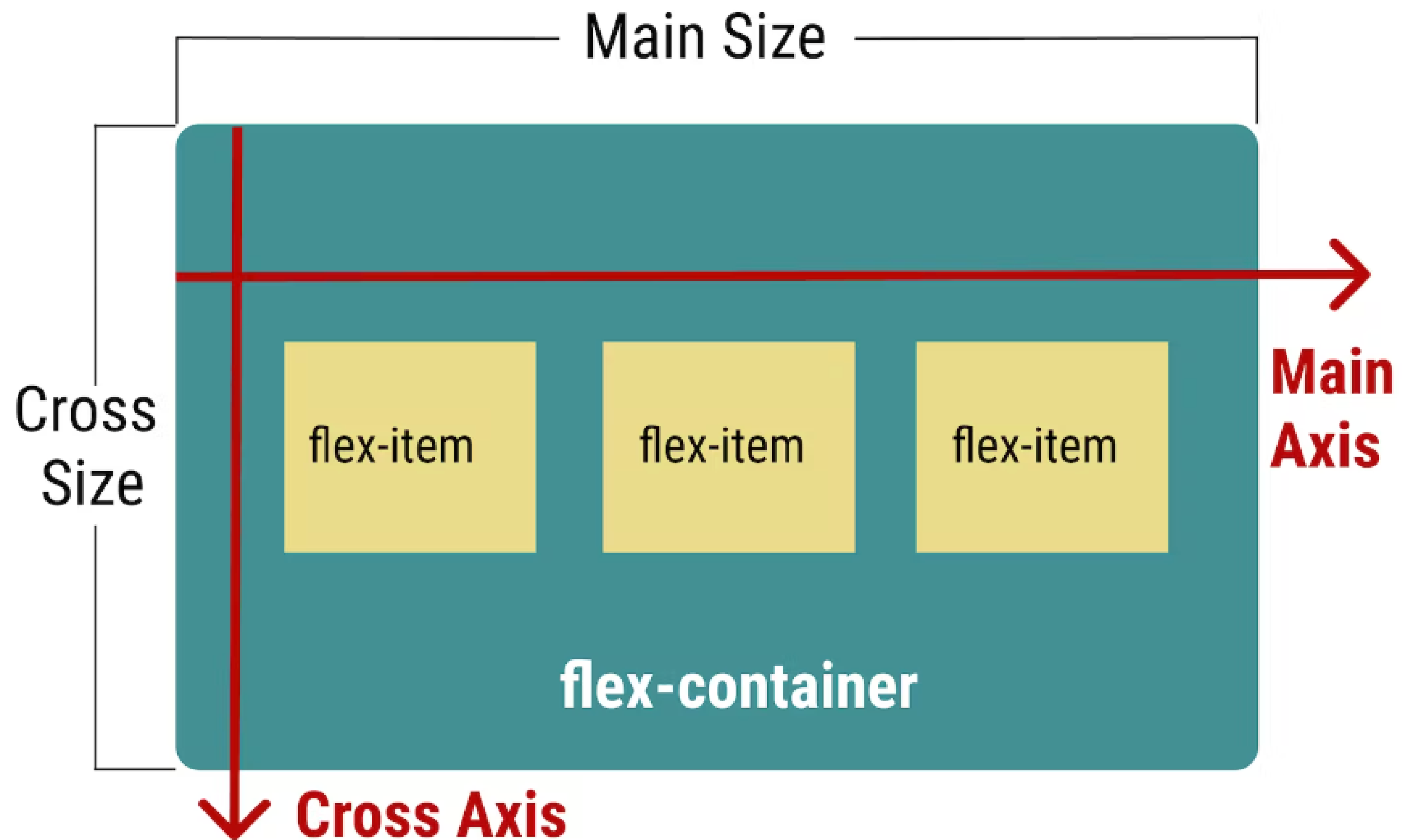




# Flexbox

**Flexbox предоставляет инструменты для быстрого создания сложных, гибких макетов, и функции, которые были сложны в традиционных методах CSS.**







# Container properties

- **flex-direction**
- **flex-wrap**
- **justify-content**
- **align-items**
- • **align content**





# Properties for Parent



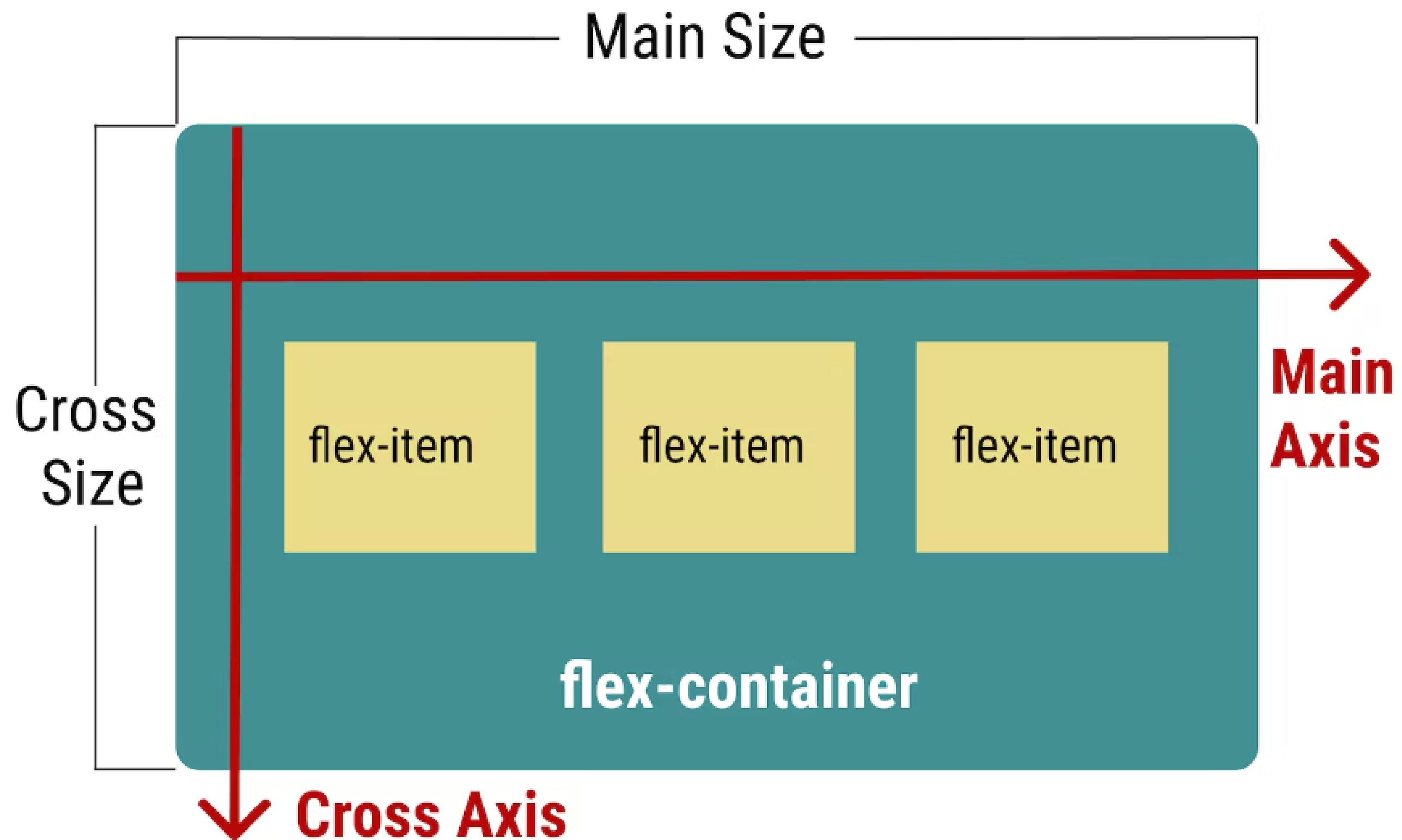
## display:

- **flex** - **отображает блоком**
- **inline-flex** - **отображает инлайн**

Block takes up the full width available, with a new line before and after (display:block;)

Inline takes up only as much width as it needs, and does not force new lines (display:inline;)





## Distribute the extra space along the main axis

### justify-content:

**flex-start** (Default) *items anchored to the start*



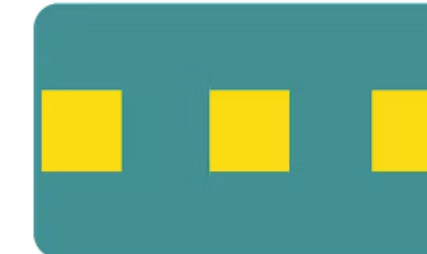
**center** *items centered*



**flex-end** *items anchored to the end*



**space-between** *items evenly distributed in the line. First item in on the start and last item is at the end*



**space-around** *start and end items are not to the edge but have 1 unit of space on each side*



**space-evenly** *similar to space-around, except all space is the same*





## Distribute the extra space between items along the cross axis

### align-items:

**stretch** (Default) *stretch to fill the container*



**flex-start** *cross axis align items to start*



**center** *cross axis align items center*



**flex-end** *cross axis align items to end*



**baseline** *align baselines*



# Set the main axis to vertical or horizontal

## flex-direction:

**row** (Default)

*left to right*



**row-reverse**

*right to left*



**Column**

*top to bottom*



**Column-reverse**

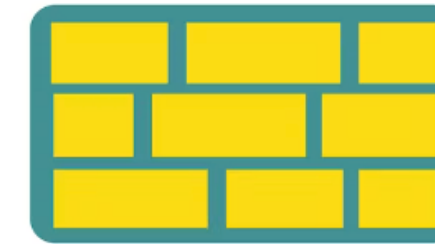
*reverse = bottom to top*



# Distribute the extra space of lines of items along the cross axis

## align-content:

**stretch** (Default) *lines stretch to take up the space that is left*



**flex-start** *items anchored to the start*



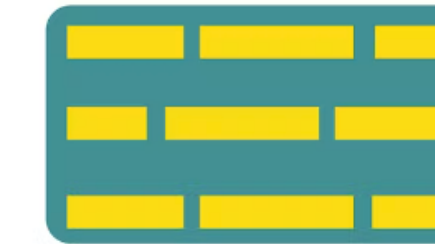
**center** *items centered*



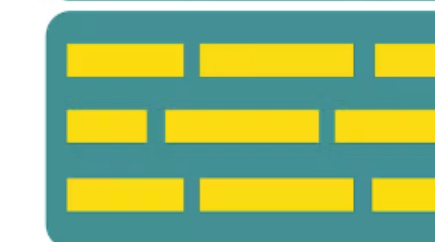
**flex-end** *cross axis align items to end*



**space-between** *first line at the start of the container and the last one is at the end*



**space-around** *lines are evenly distributed with equal space around each line*



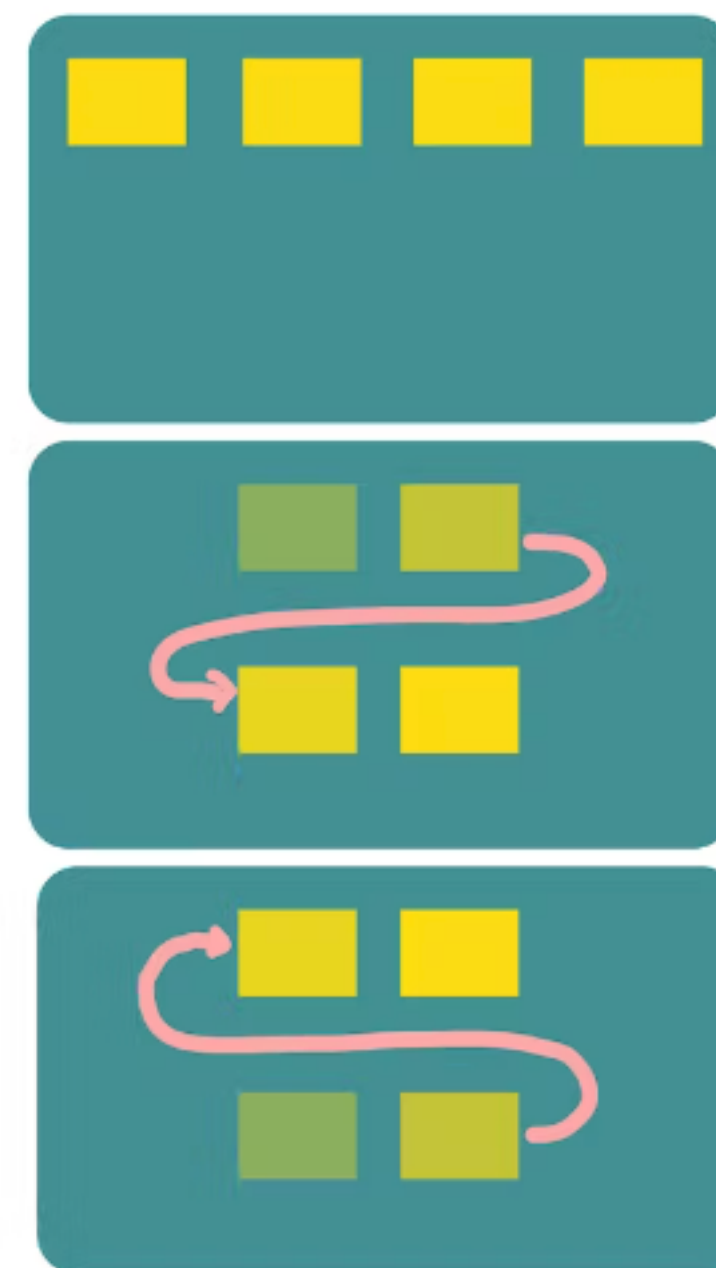
# Wrap the items as needed

## flex-wrap:

**nowrap** (default) *all items will try to stay on one line*

**Wrap** *if items don't fit they will wrap and create a new line below*

**Wrap-reverse** *if items don't fit they will wrap and create a new line above*





# Flex item. Children properties



# Change the order of the item

Order:

[number]      *default is 0*

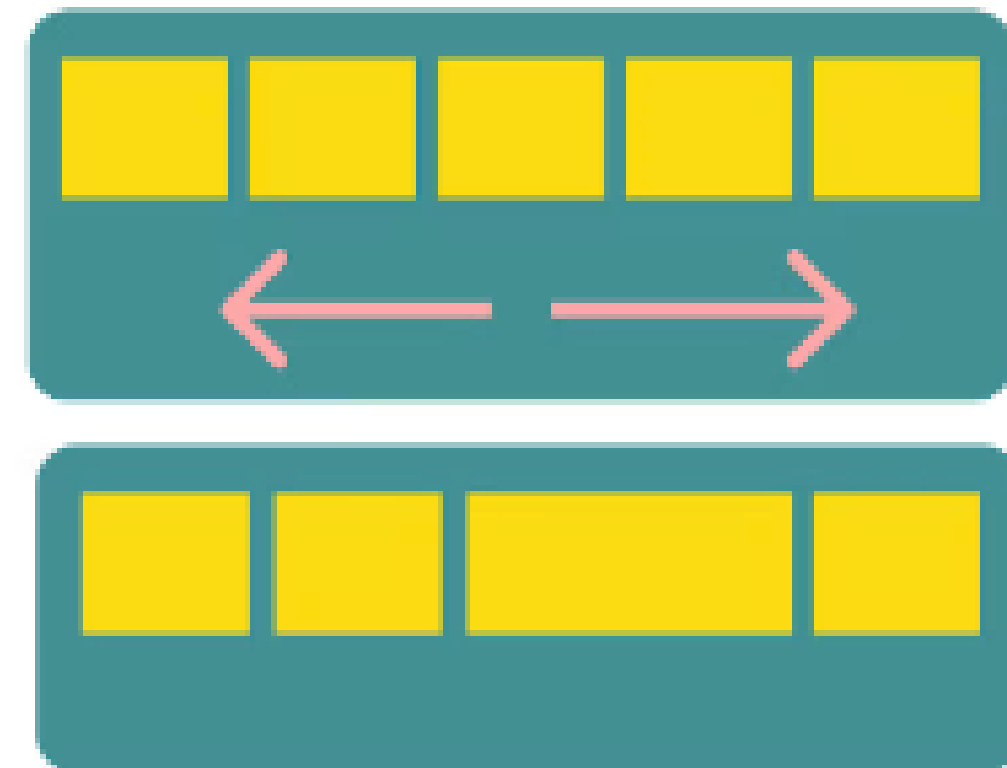


# Let one item take more space than the other items

## flex-grow

[number]      *default is 0*

*If one of the children has a value of 2, then it would take up twice as much space as the others*

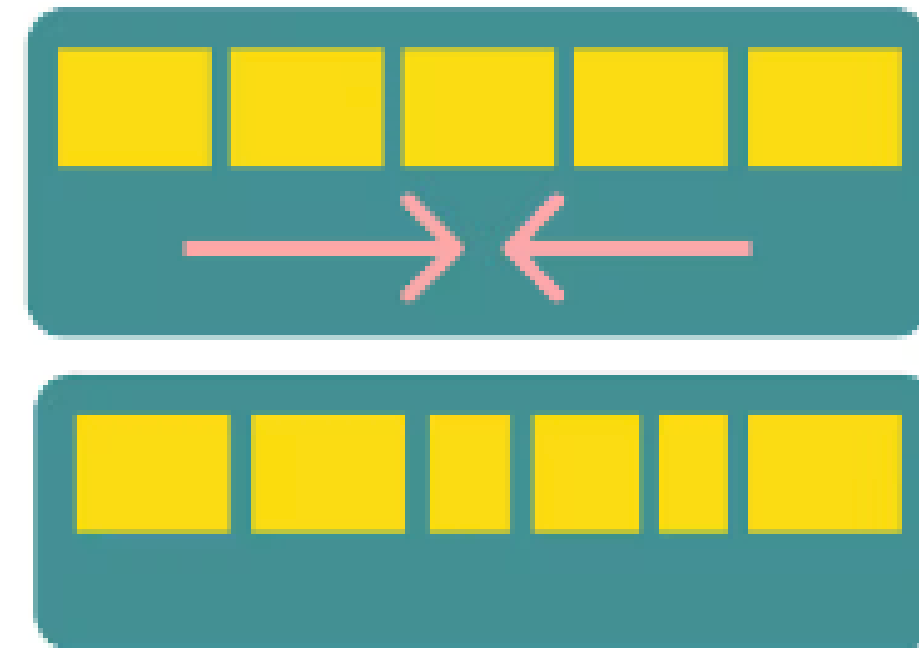


# Let one item take less space than the other items

## flex-shrink

[number]      *default is 0*

*If one of the children has a value of 2, then it shrinks two times more than the rest*

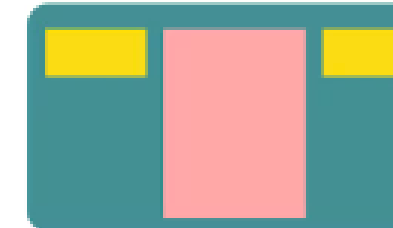




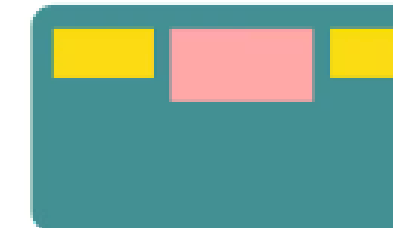
## Override the align-items value for a particular item

### align-items:

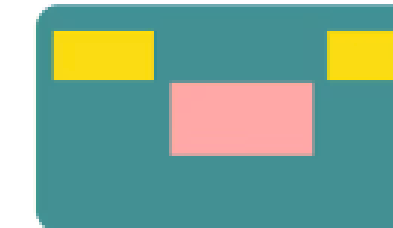
**stretch** (Default) *stretch to fill the container*



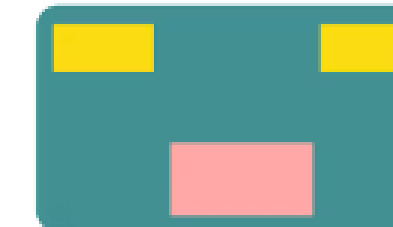
**flex-start** *cross-start margin is on the cross start line*



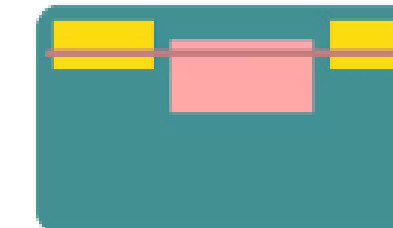
**center** *centers are aligned*



**flex-end** *cross-end margin is on the cross end line*



**baseline** *baselines are aligned*



**auto**

