

---

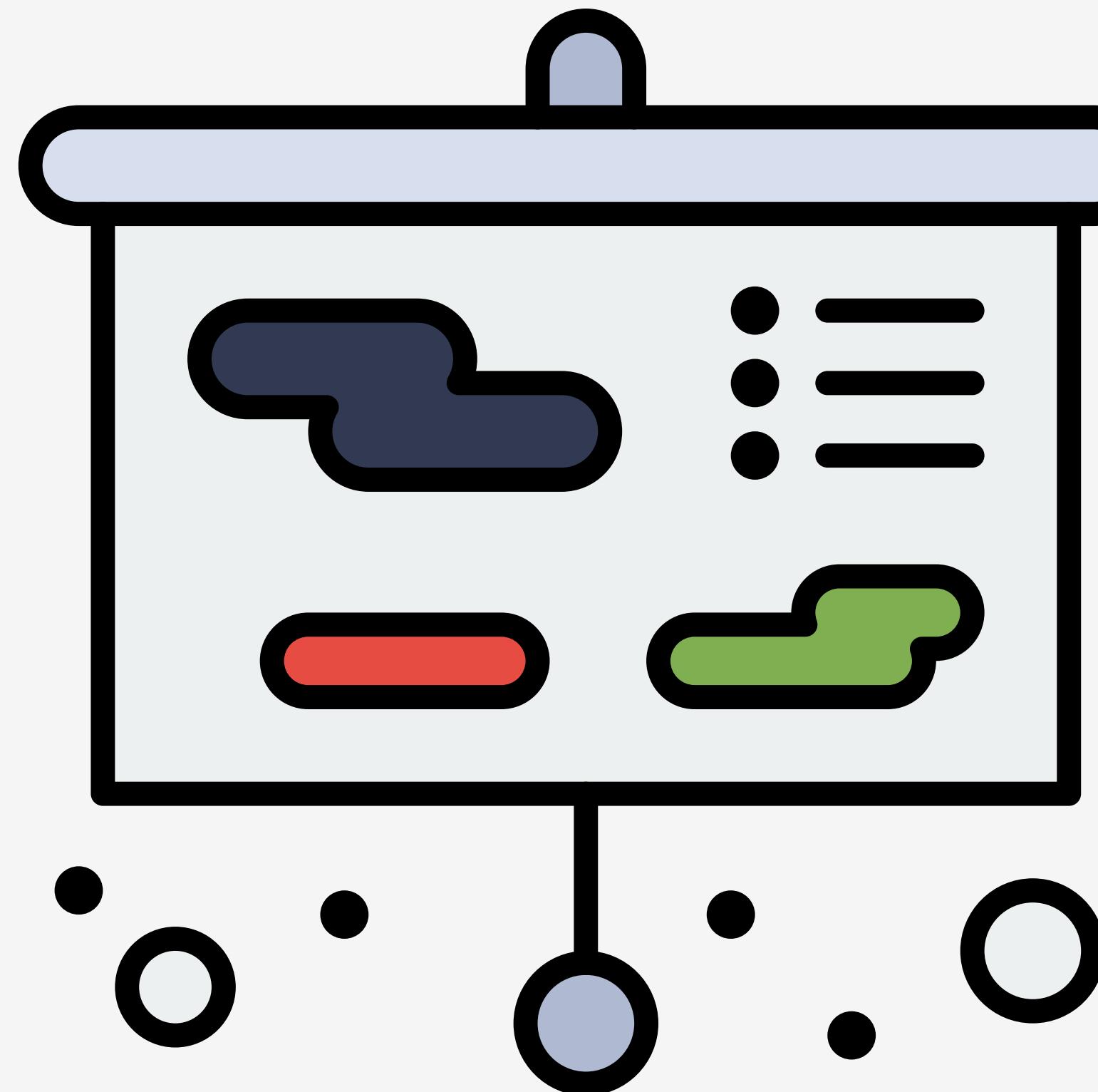
# **RESPONSIVE**

# **WEB DESIGN II**

Lecture 5

---

# TODAY'S TOPICS



- Flexbox
- Exercise: Flexblocks

---

# ANNOUNCEMENTS



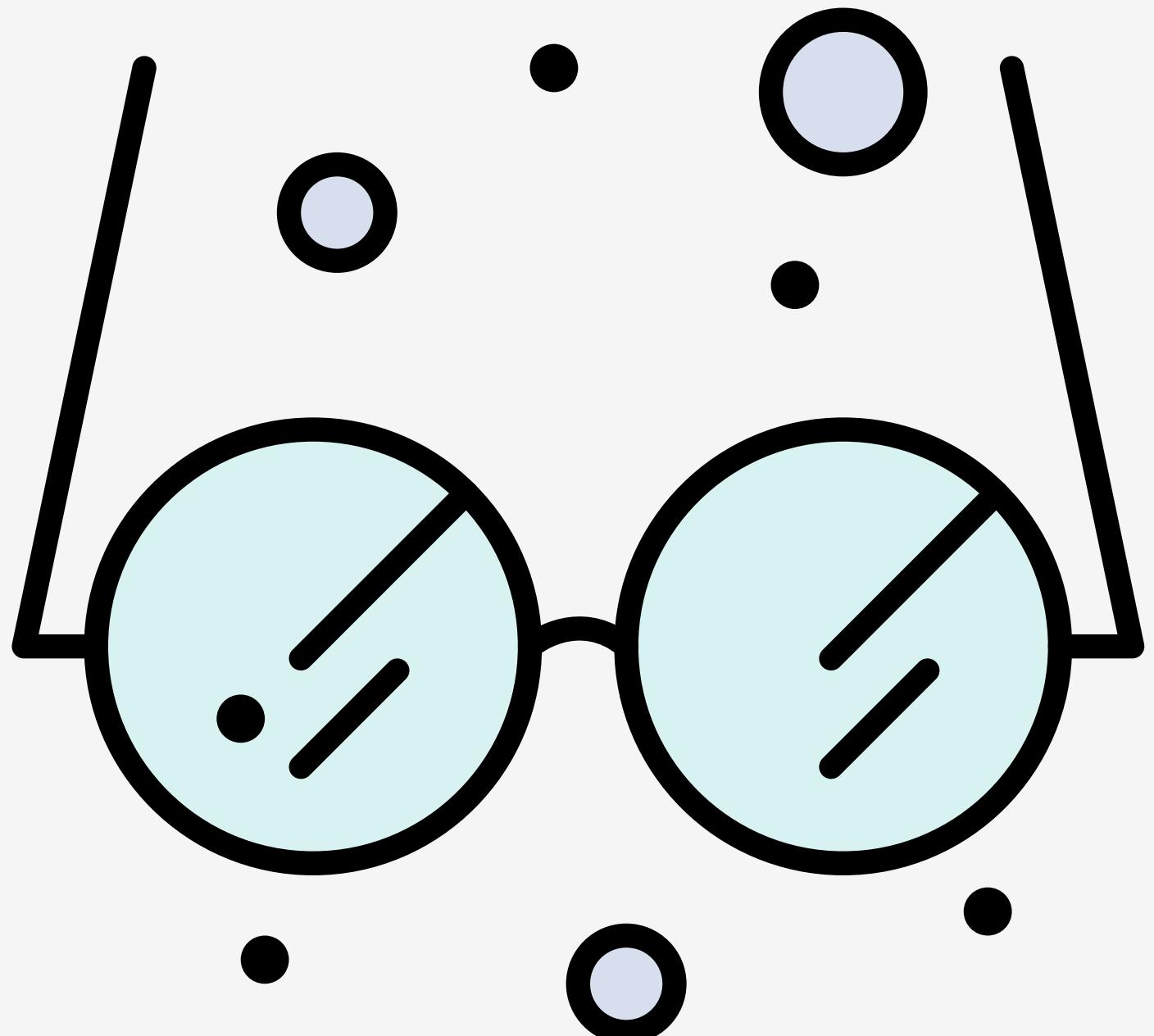
- Sign-in Sheet
- Recordings

# QUESTIONS

# FLEXBOX

---

# HISTORY WEB DESIGN LAYOUTS



- No Layout (1990 - 1995)
- Table Layouts (1995 - 2004)
- Tableless Layouts (2001 - 2012)
- Responsive Layouts (2010 - Today)
- Grid Layouts (2011 - Today)
- Liquid Layouts (2014 - Today)

---

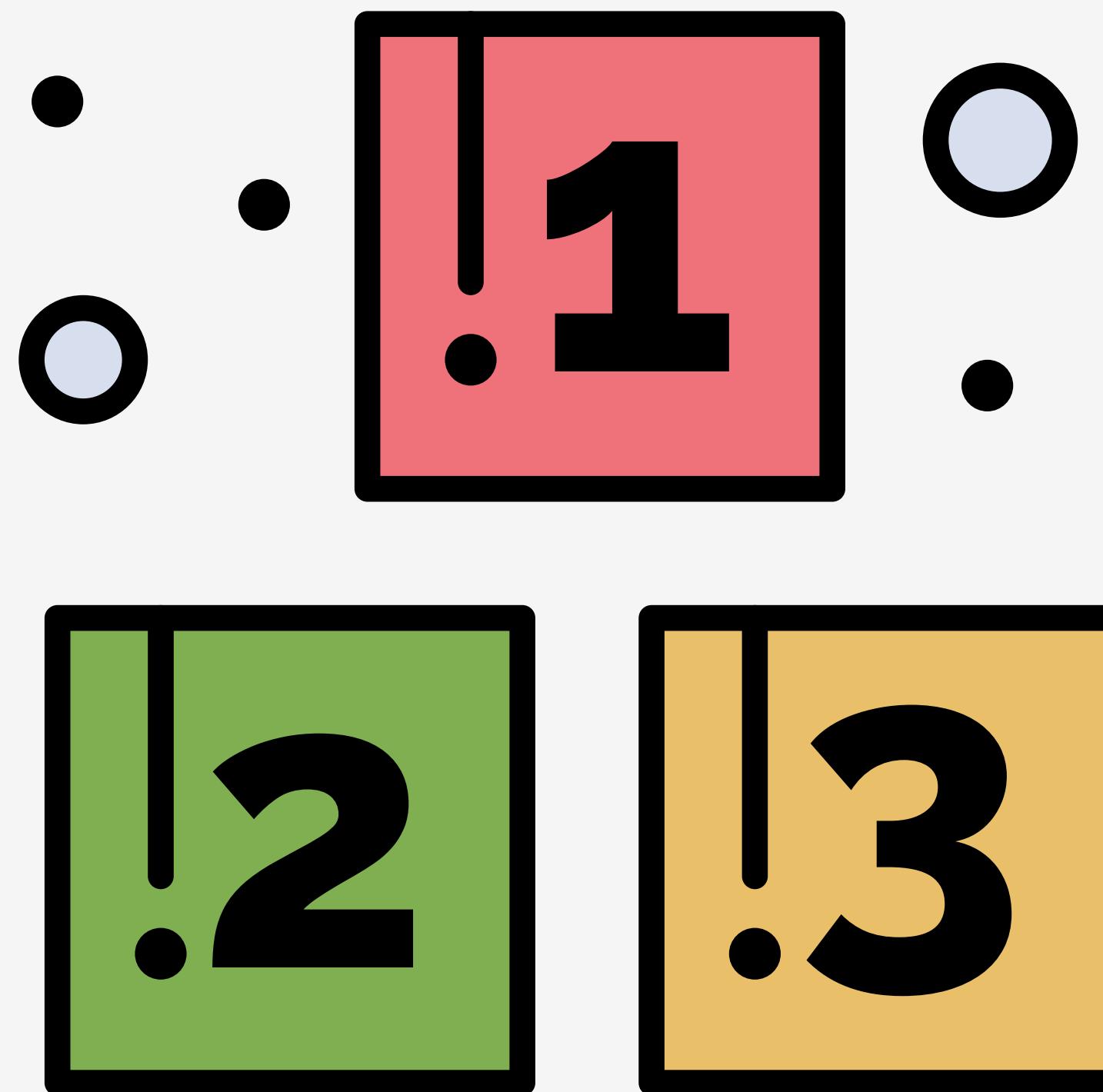
# DISPLAY



- Sets the display type of an element
- Two categories: **Outer** and **Inner**
- **Outer display types** affect the element itself (e.g. **inline**, **block**)
- **Inner display types** affect how the element's children (e.g. **flex**, **grid**)

---

# FLEXBOX

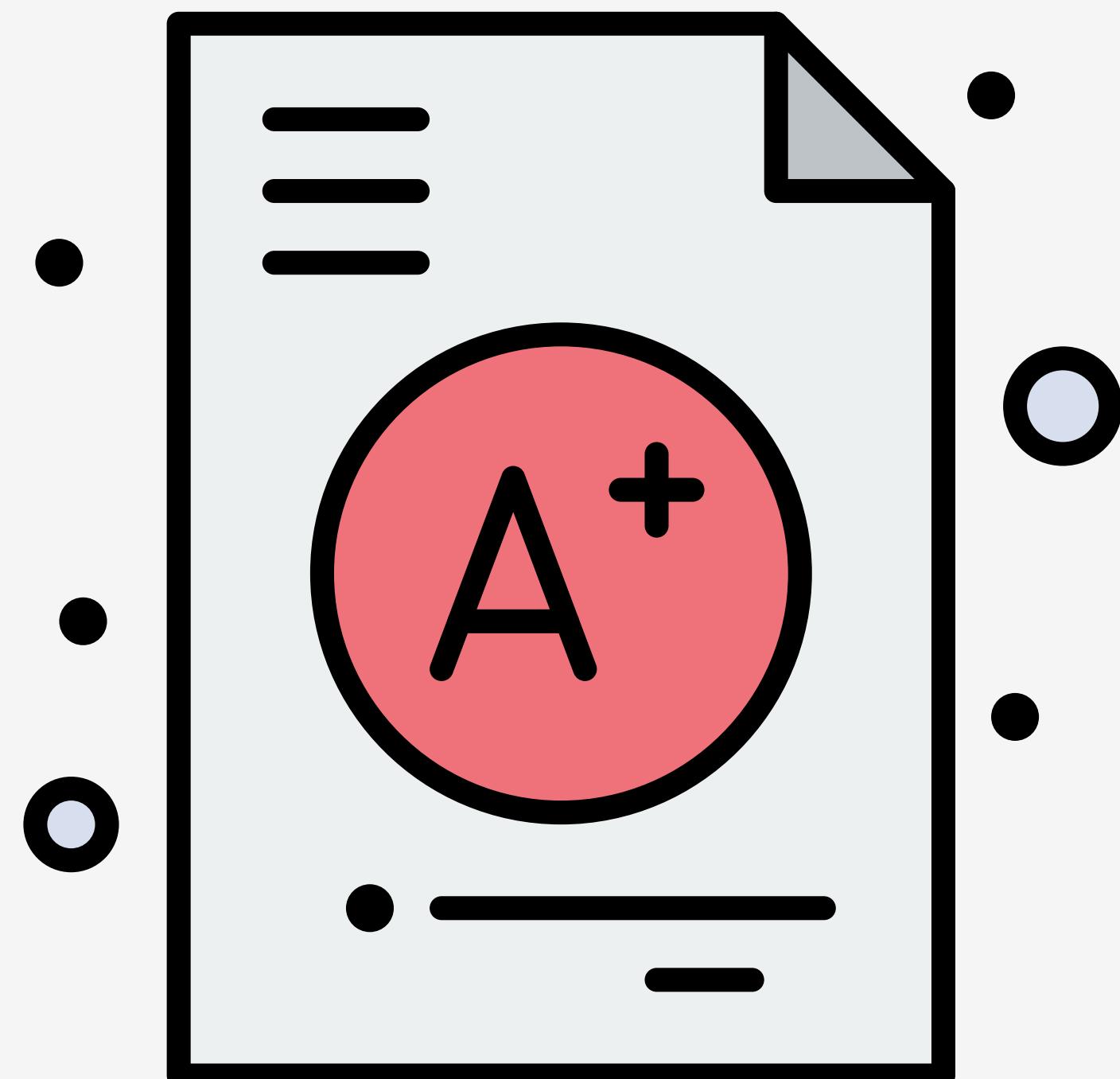


- Flexbox defines a box model optimized for layouts in one dimension
- The `display: flex` rule creates flexbox container
- Elements directly inside a flexbox container are affected

# FLEXBOX CONTAINER

---

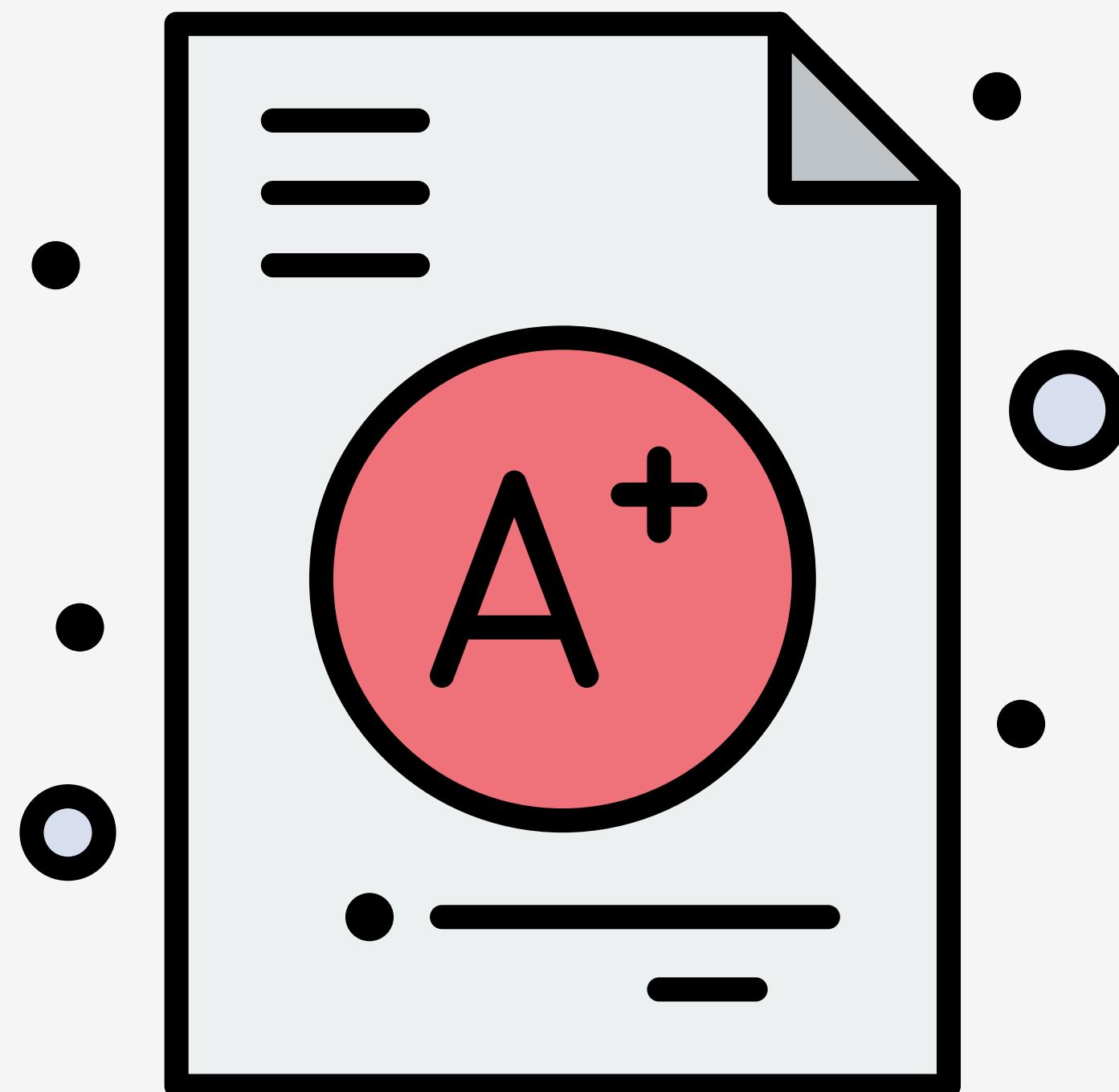
# FLEXBOX CONTAINER



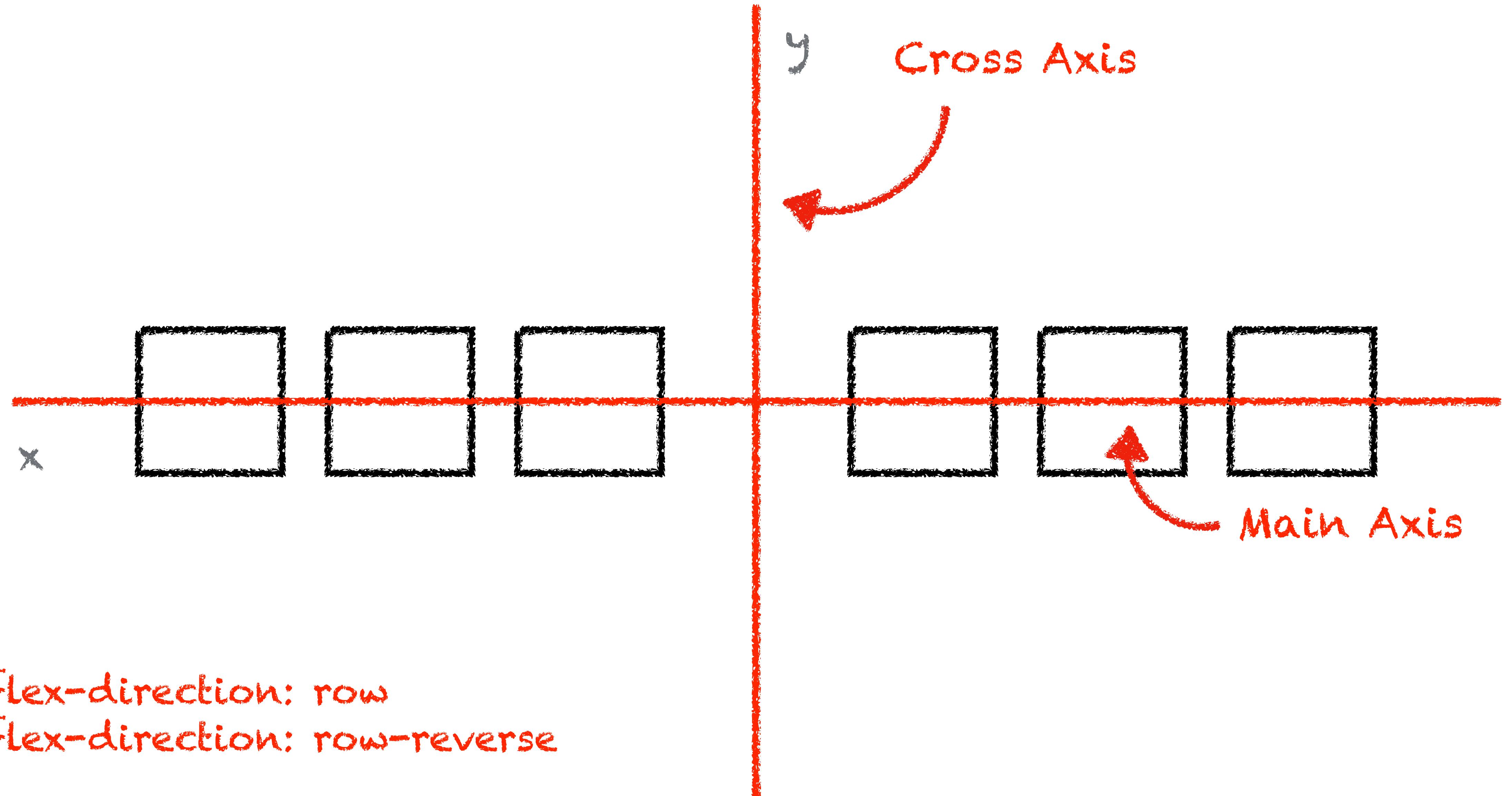
- Works with two axis: **main** and **cross**
- The **main axis** which direction the children will flow and is defined by **flex-direction**
- The **cross axis** is alway perpendicular to the **main axis**

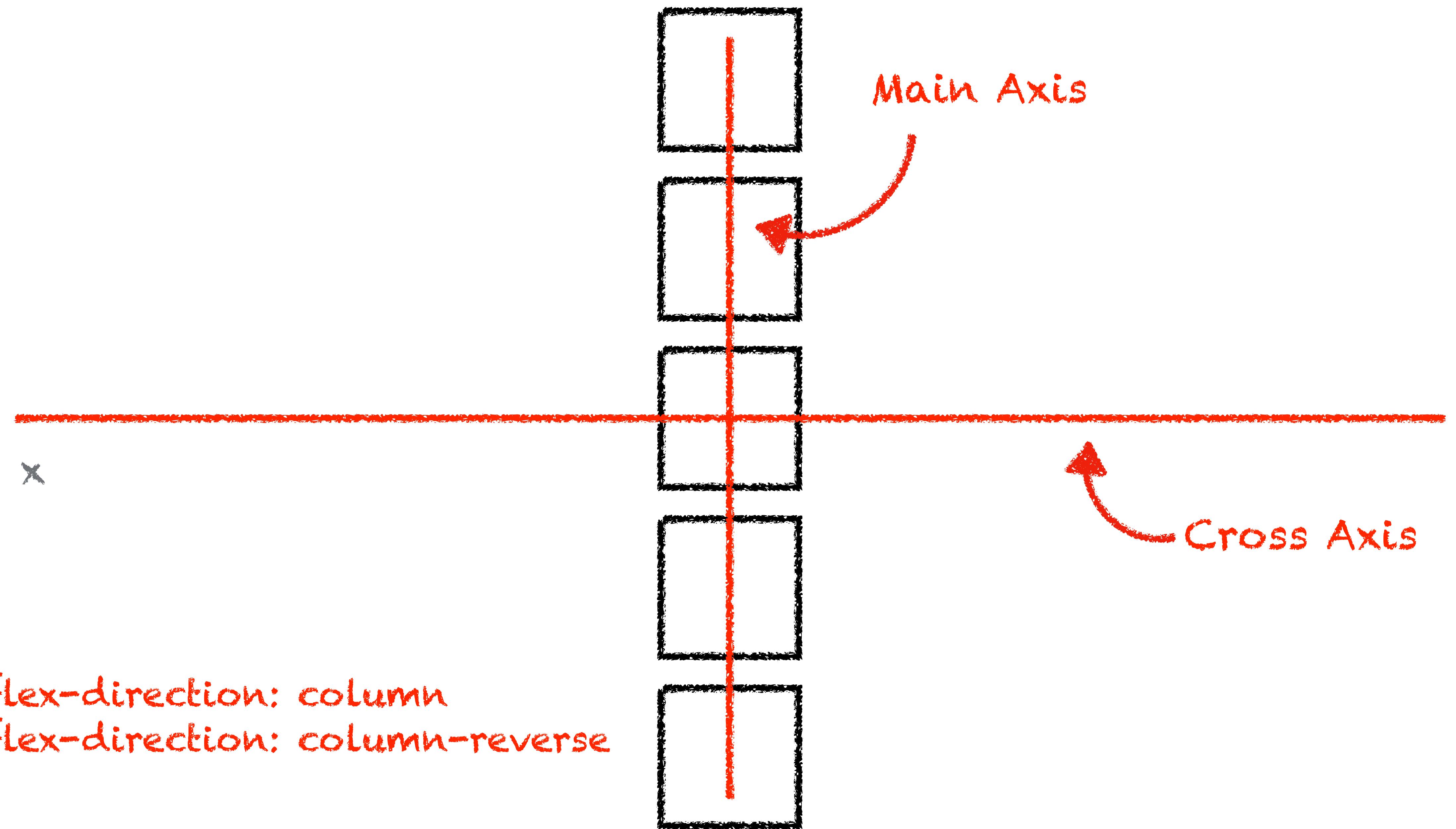
---

# FLEX-DIRECTION



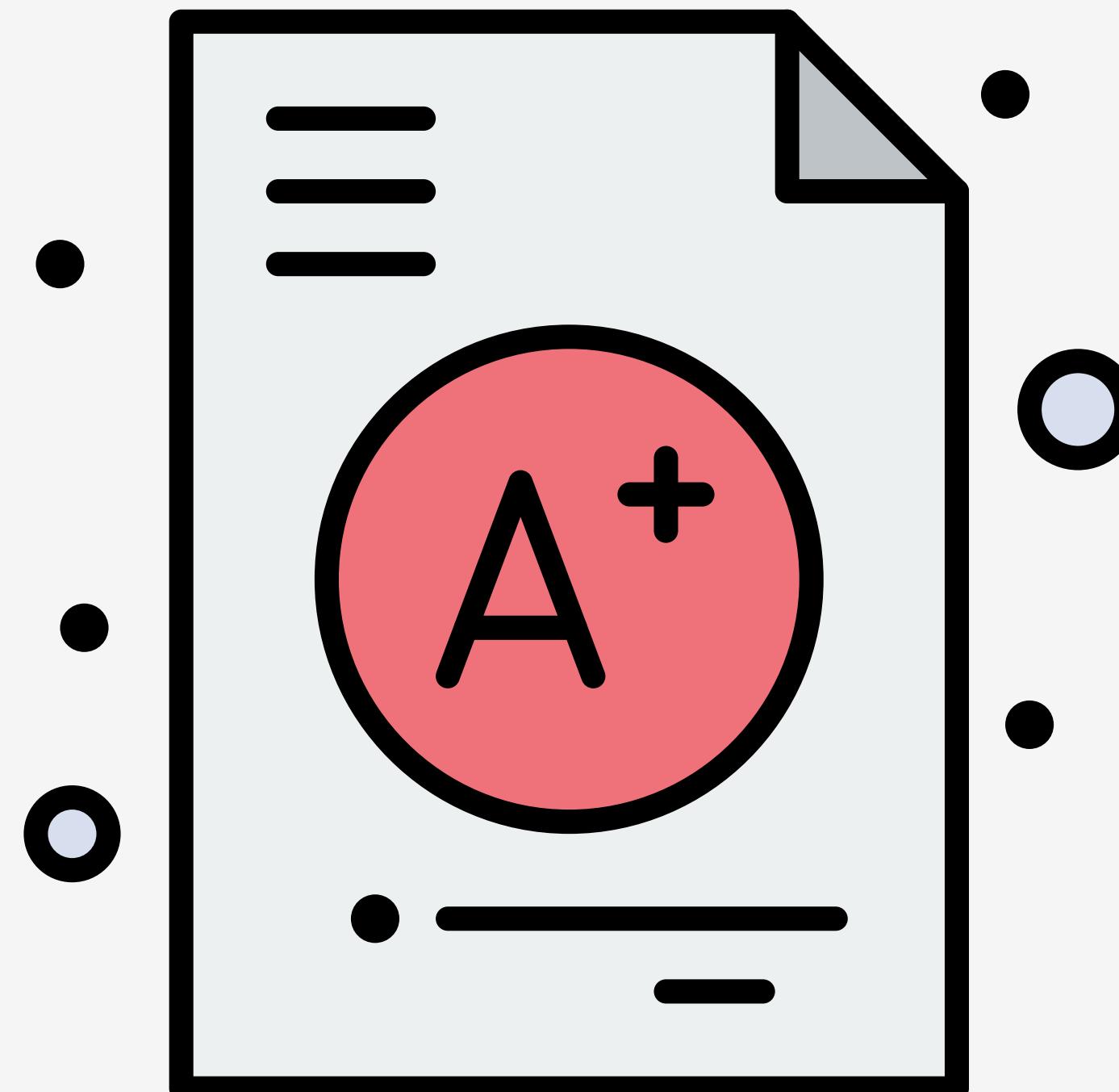
- The **flex-direction** property defines the main axis
- The children of the **flexbox container** flow along the main axis
- The **flex-direction values**:
  - **row**
  - **row-reverse**
  - **column**
  - **column-reverse**



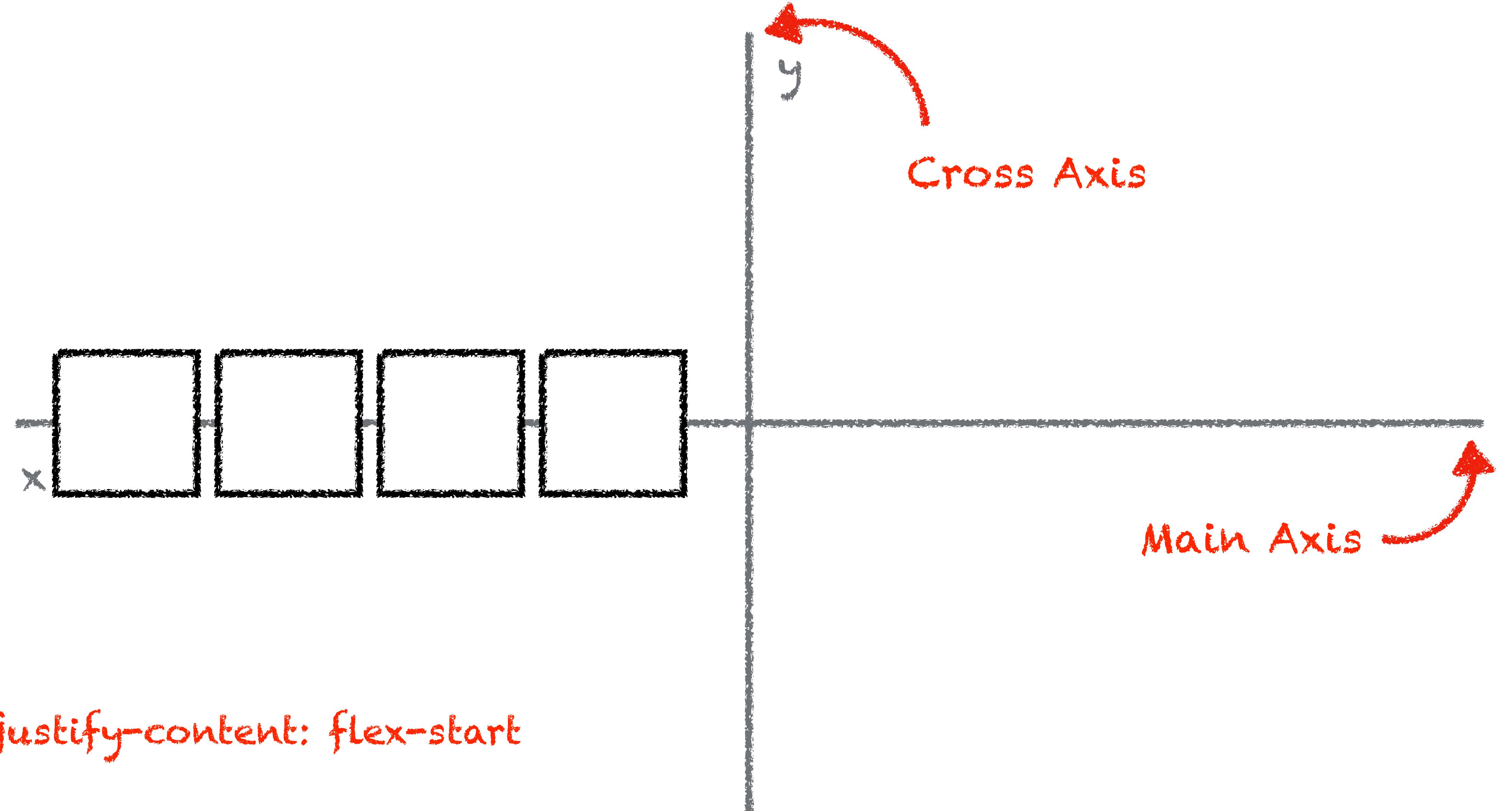


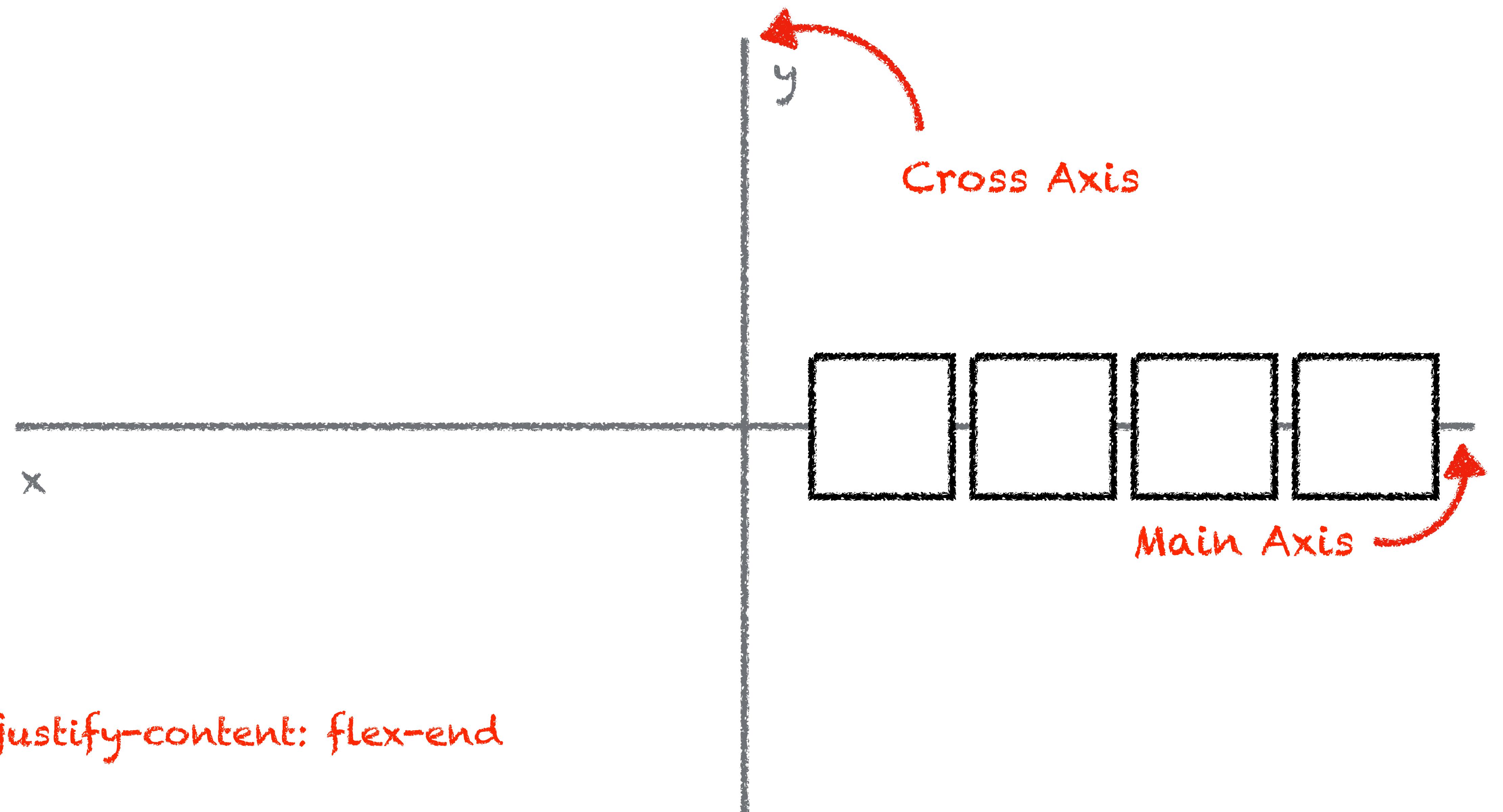
---

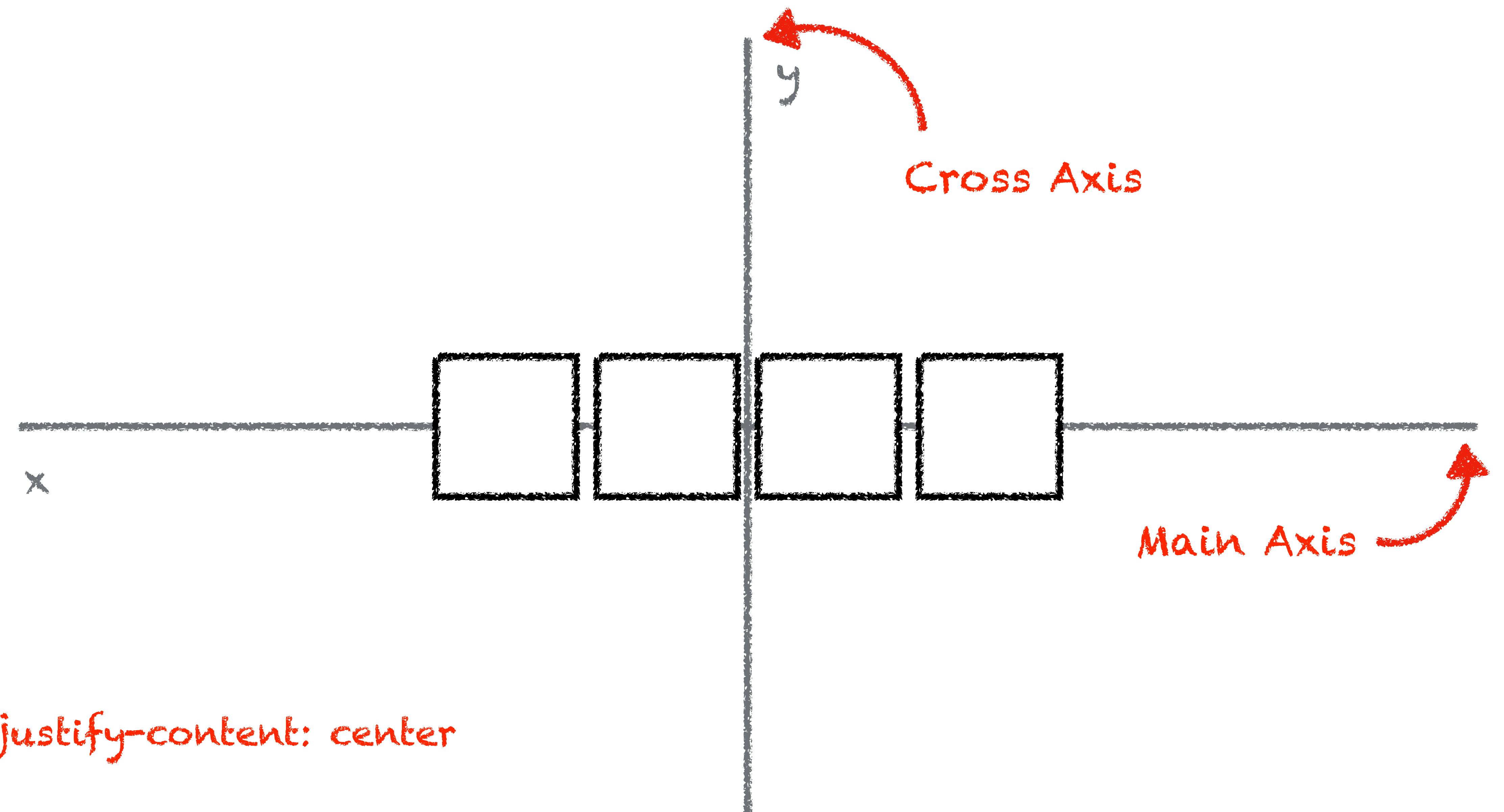
# JUSTIFY-CONTENT

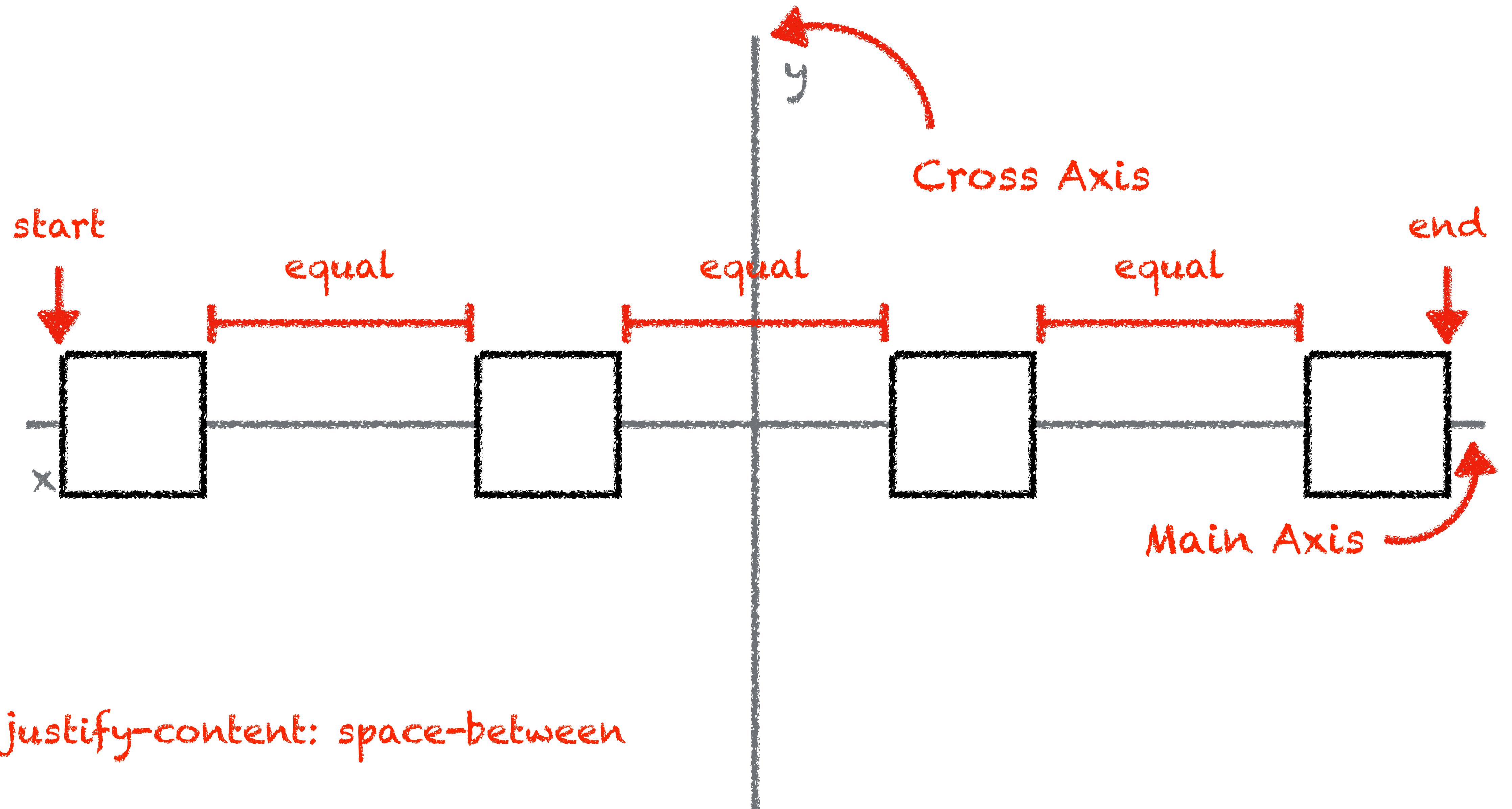


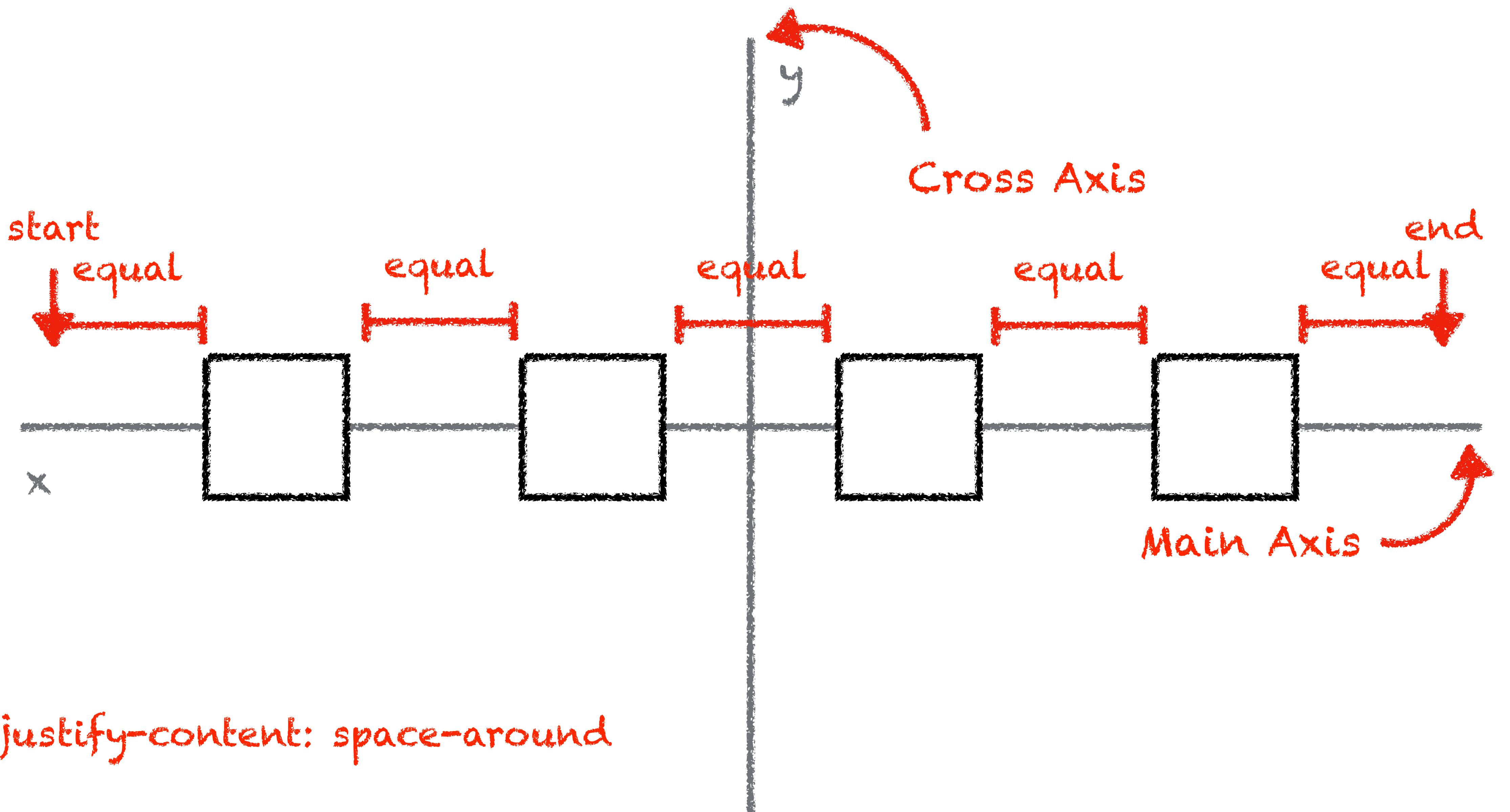
- Used to set how the children are distributed along the main axis
- The values for `justify-content` are:
  - `flex-start` (default)
  - `flex-end`
  - `center`
  - `space-between`
  - `space-around`
  - `space-evenly`

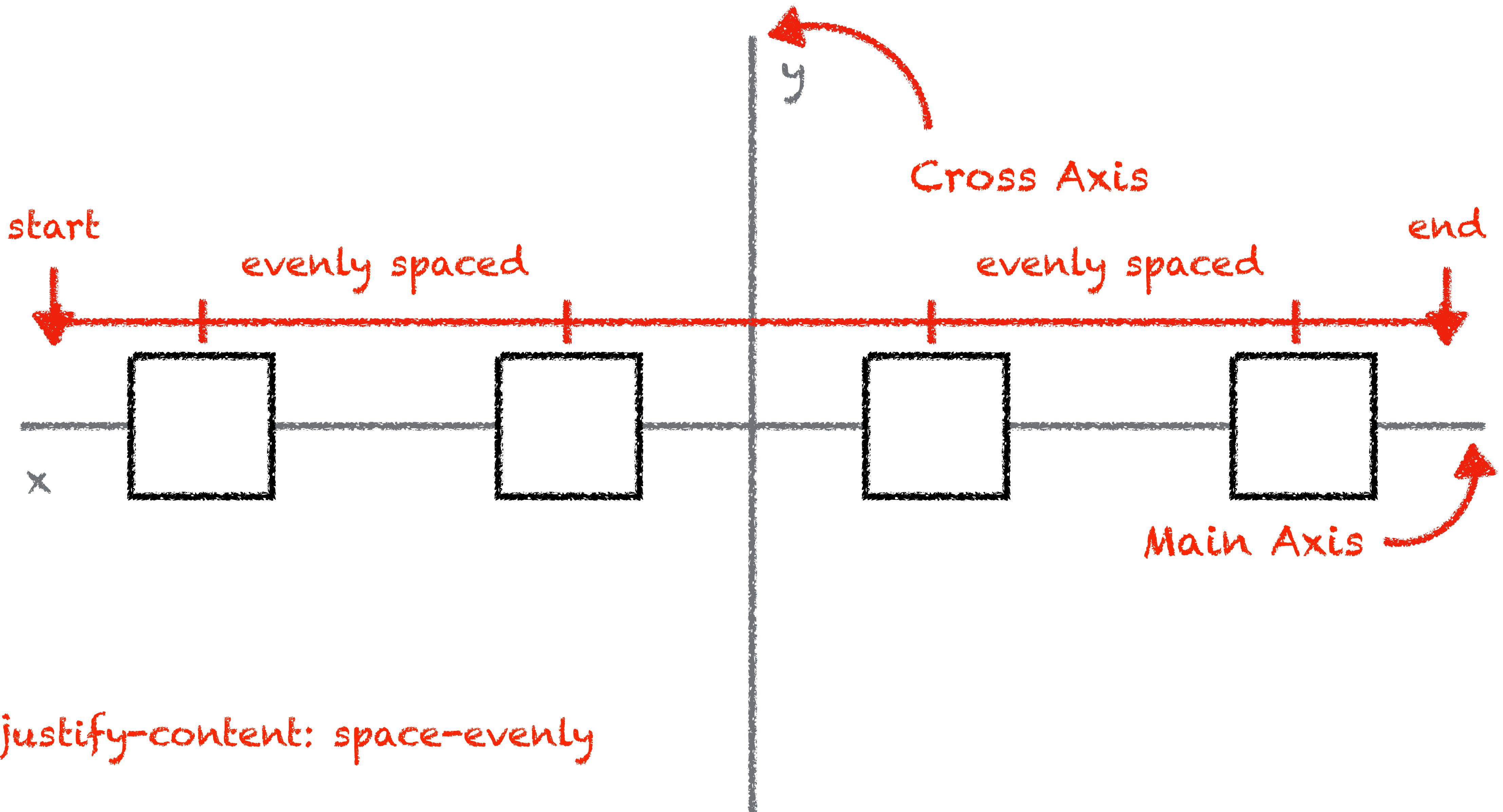






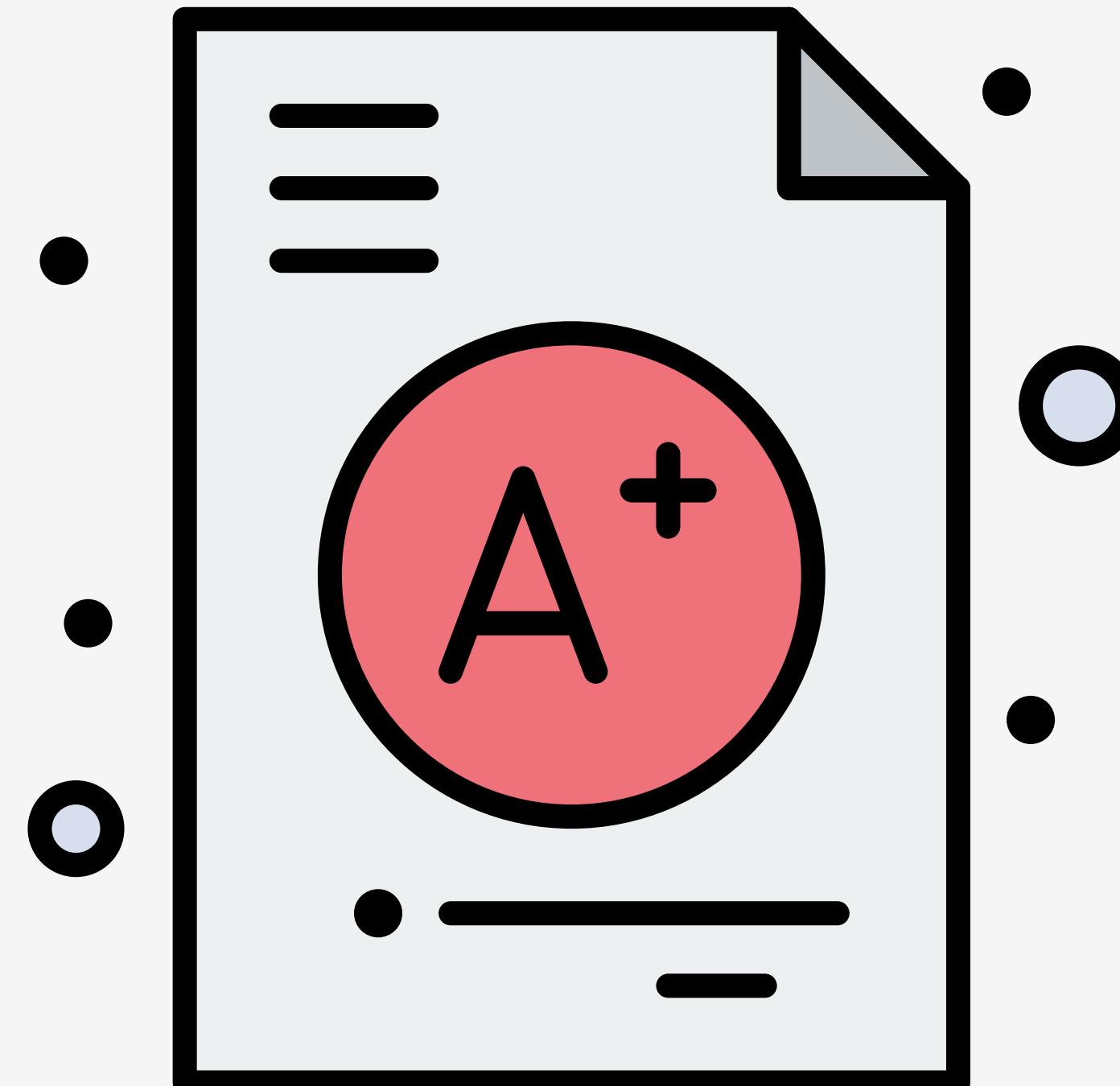




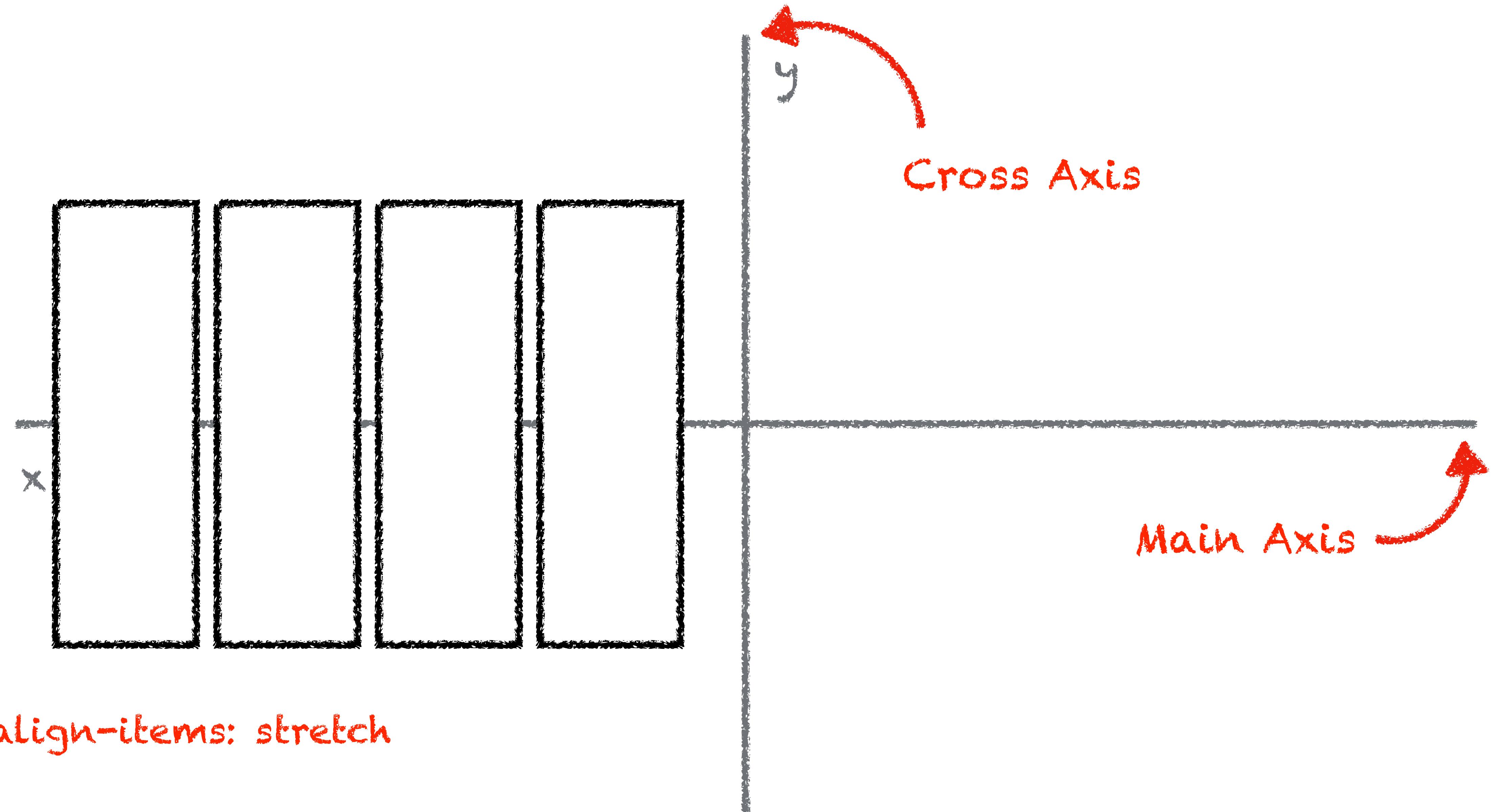


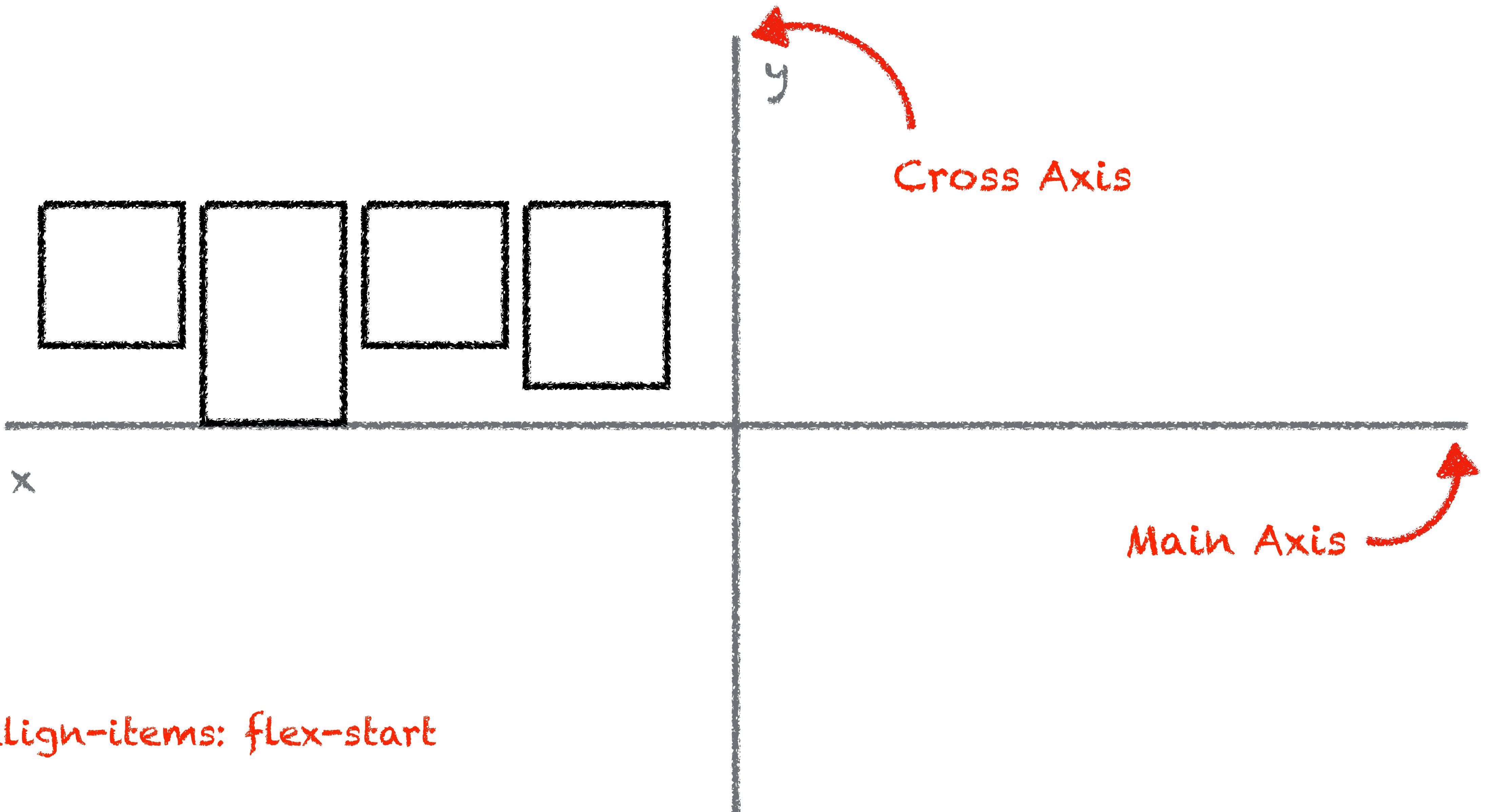
---

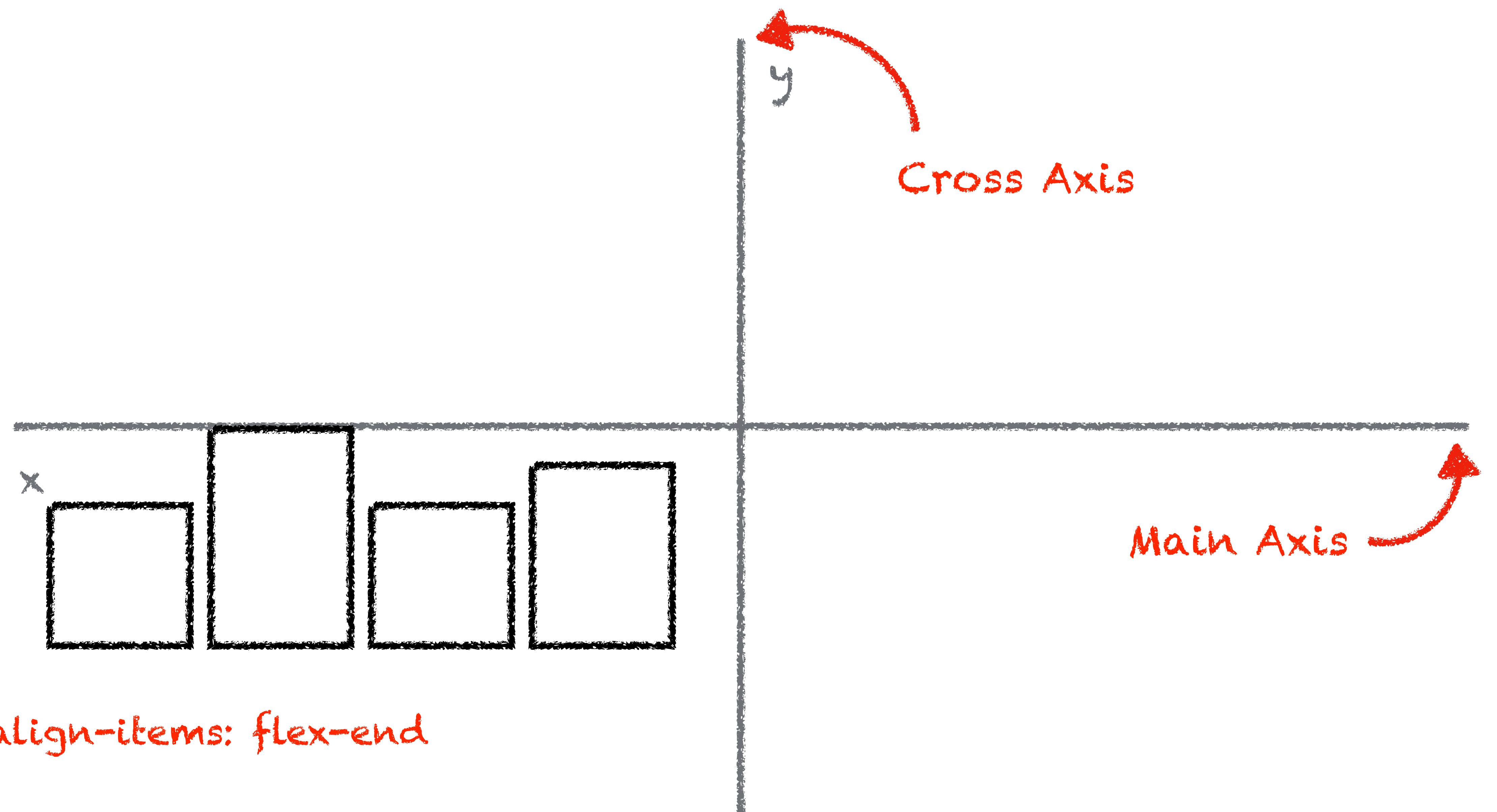
# ALIGN-ITEMS

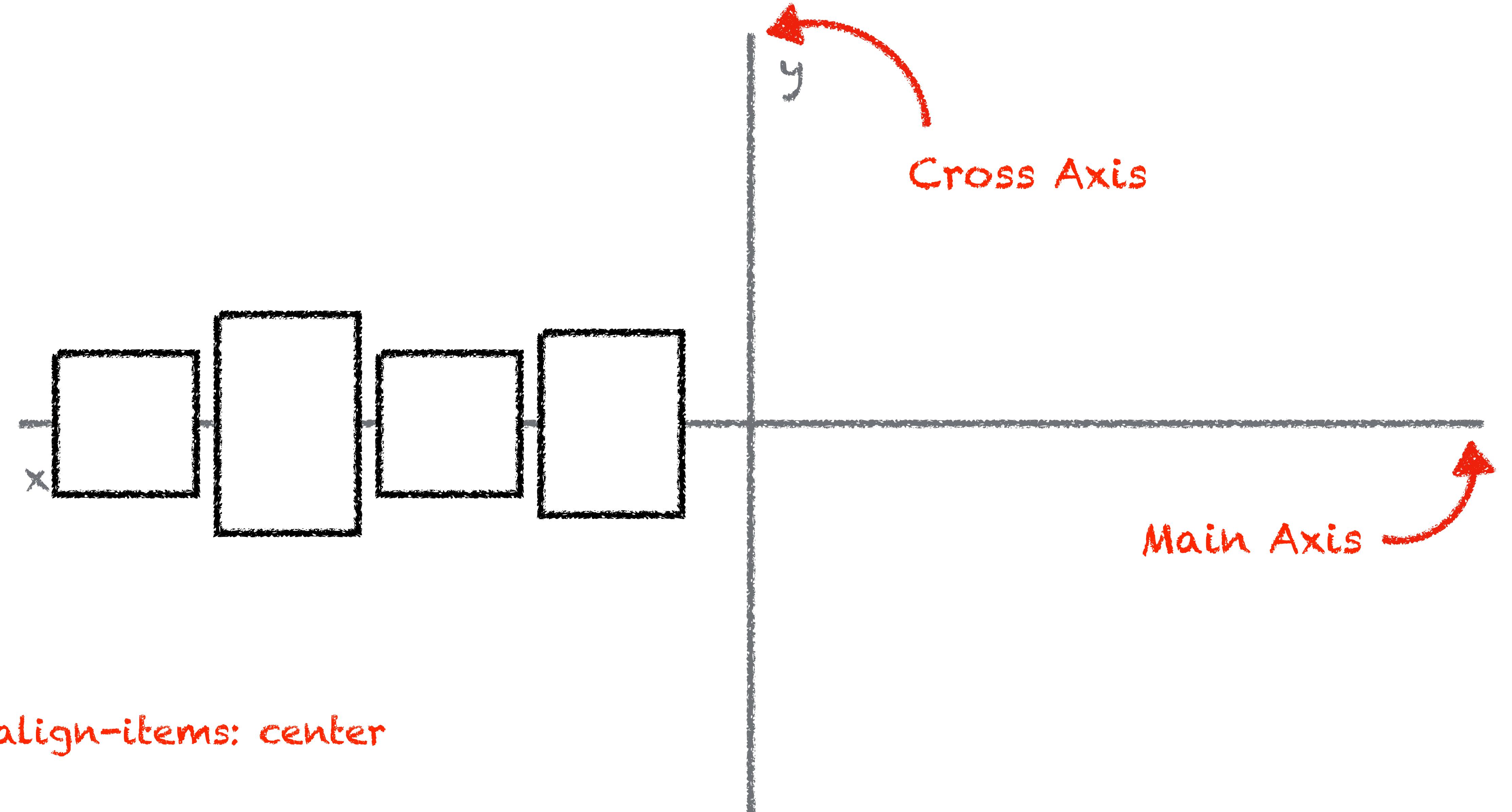


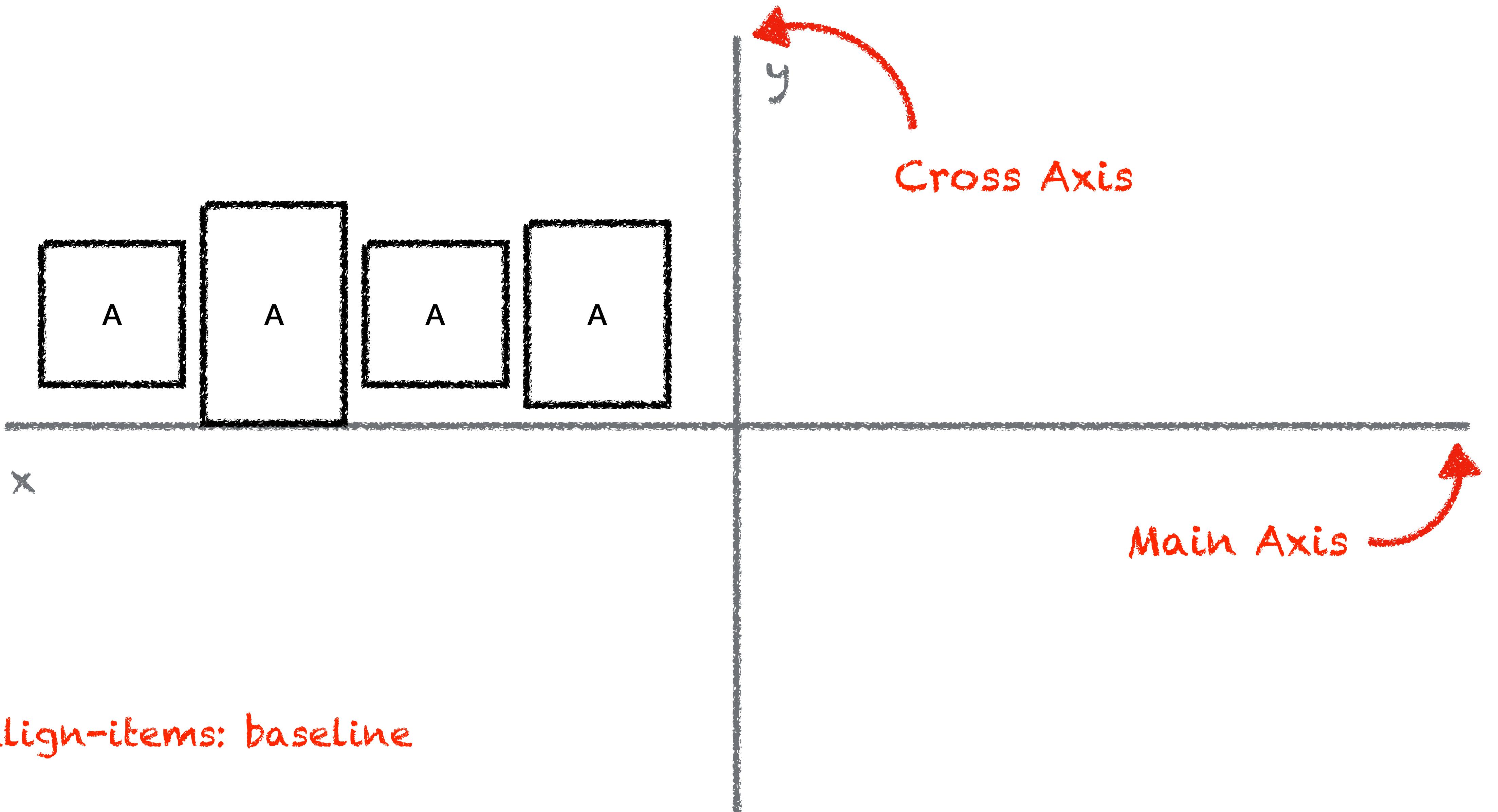
- Used to set how the children are laid along the cross axis
- The values for `align-items` are:
  - `stretch` (default)
  - `flex-start`
  - `flex-end`
  - `center`
  - `baseline`





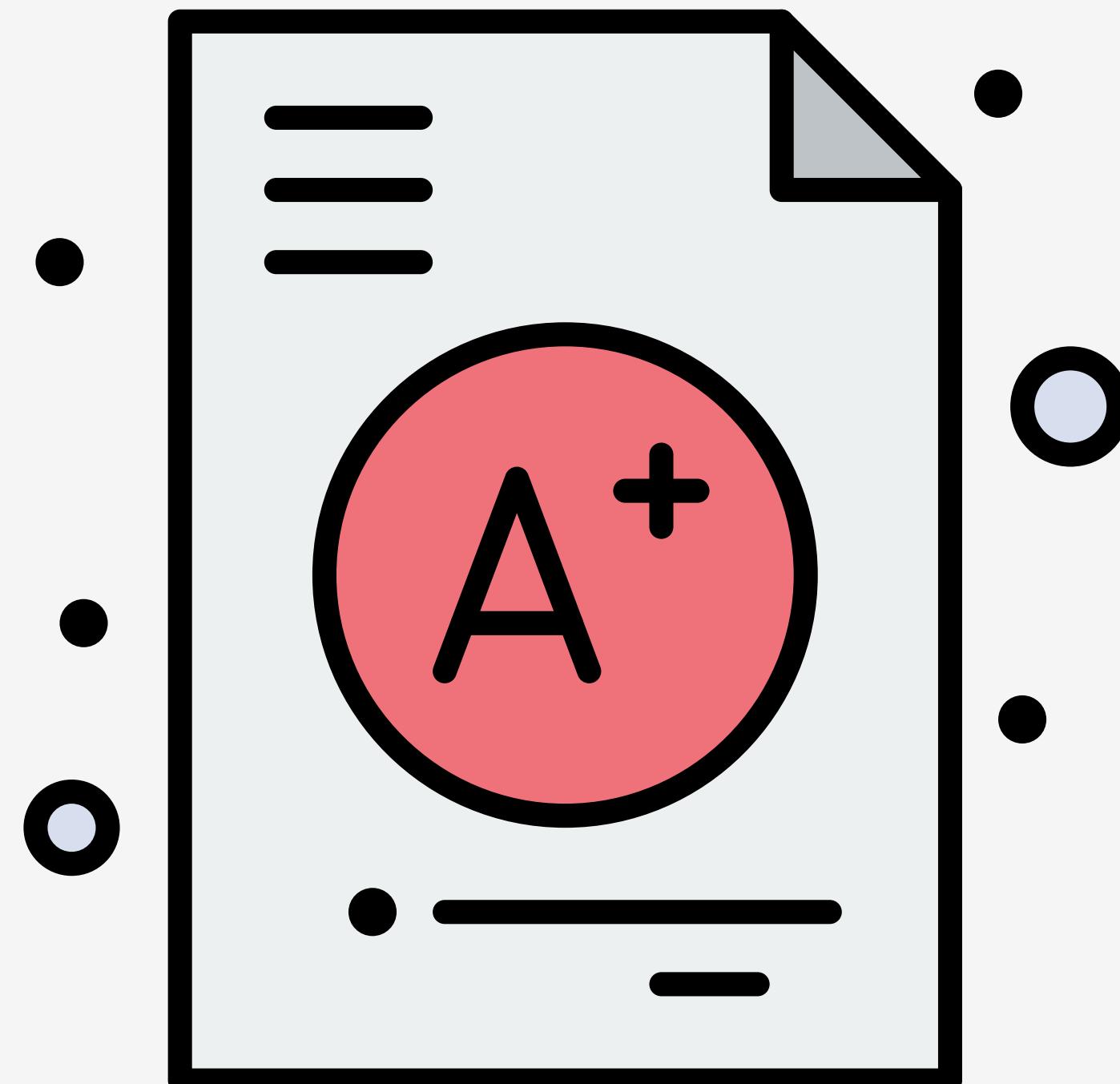




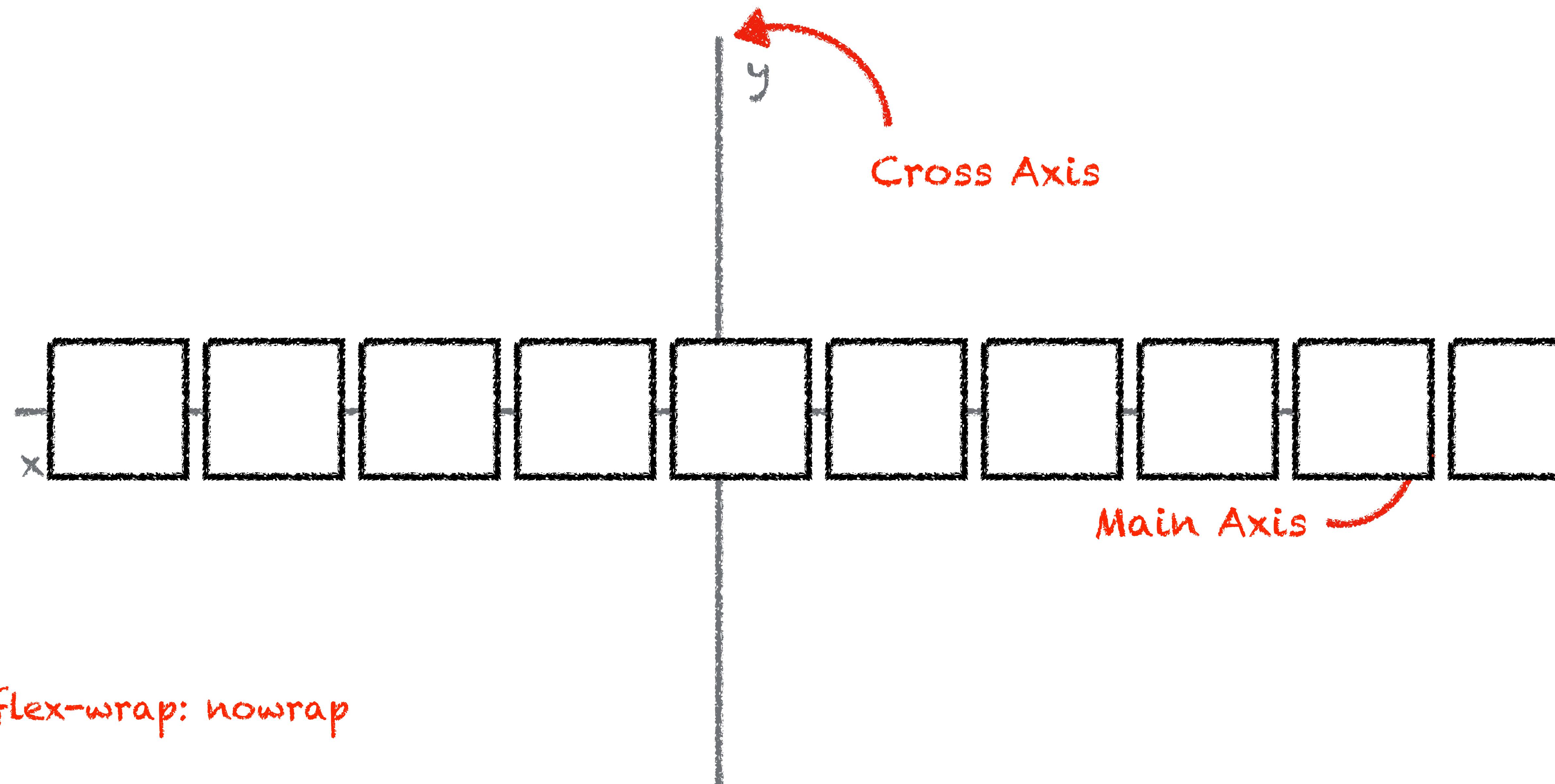


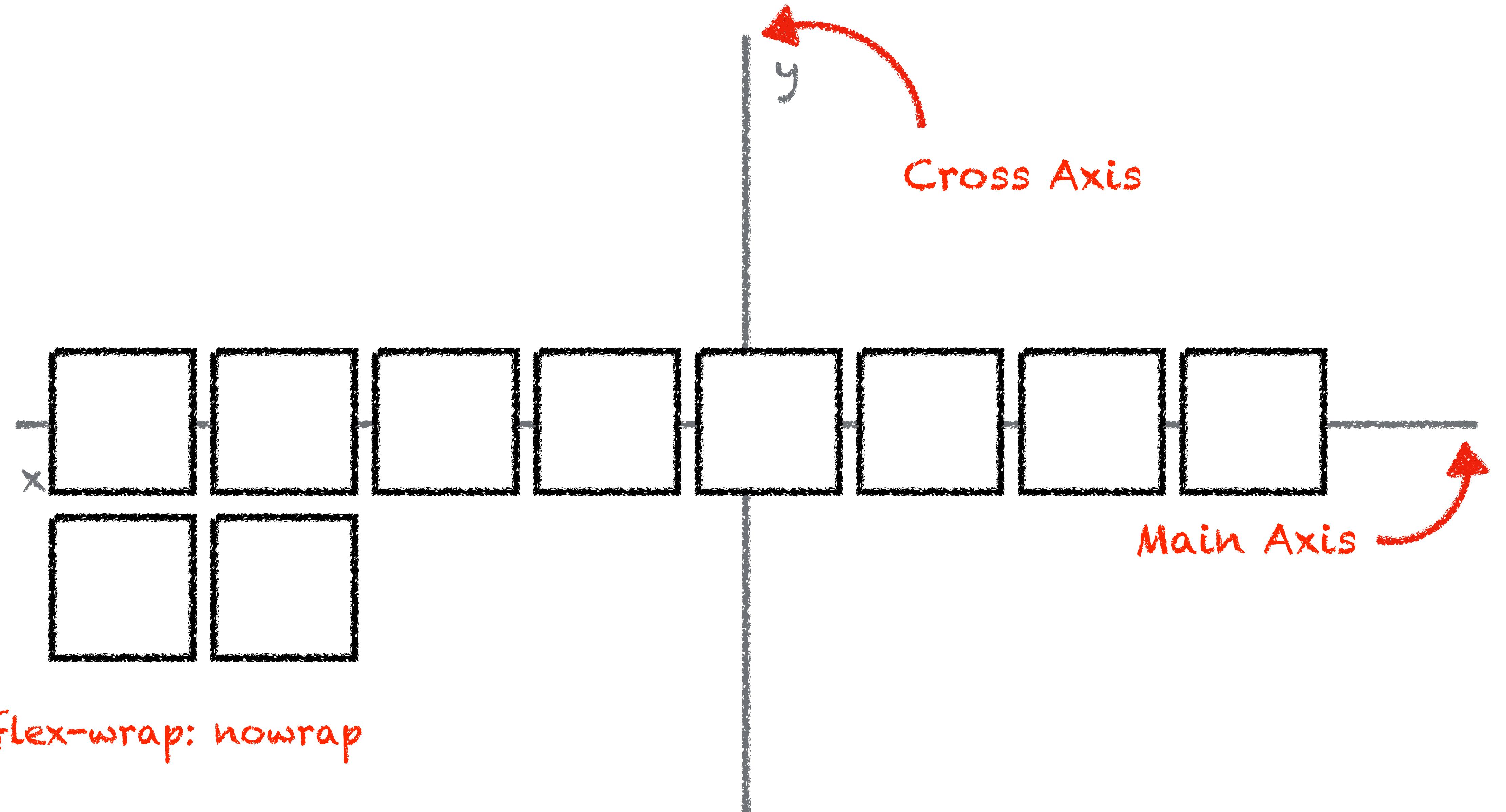
---

# FLEX-WRAP



- By default, children of a flexbox container will remain on a single line
- The **flex-wrap** property controls how children will wrap
- The values for **flex-wrap** are:
  - nowrap (default)
  - wrap
  - wrap-reverse





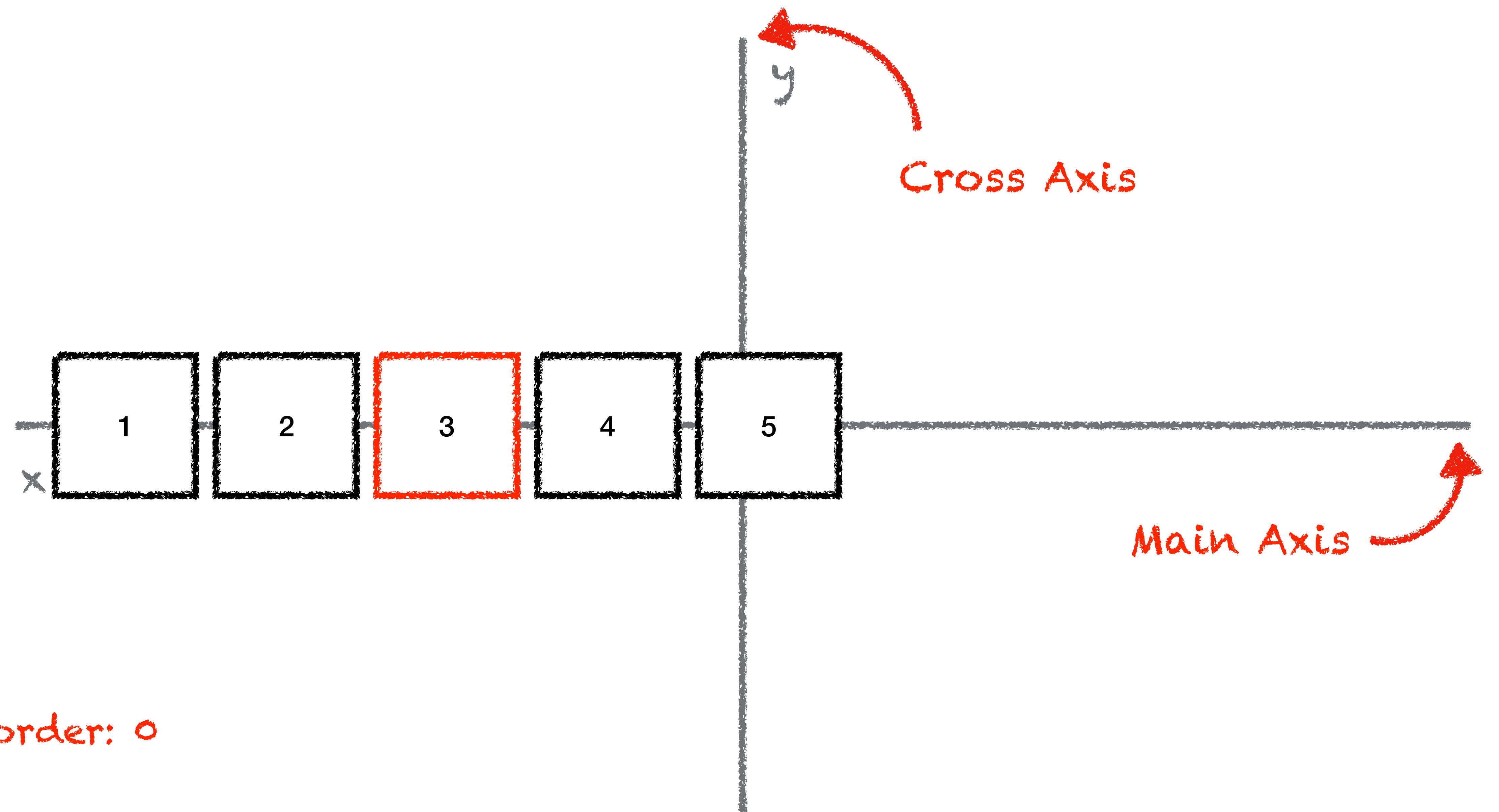
# FLEXBOX ITEMS

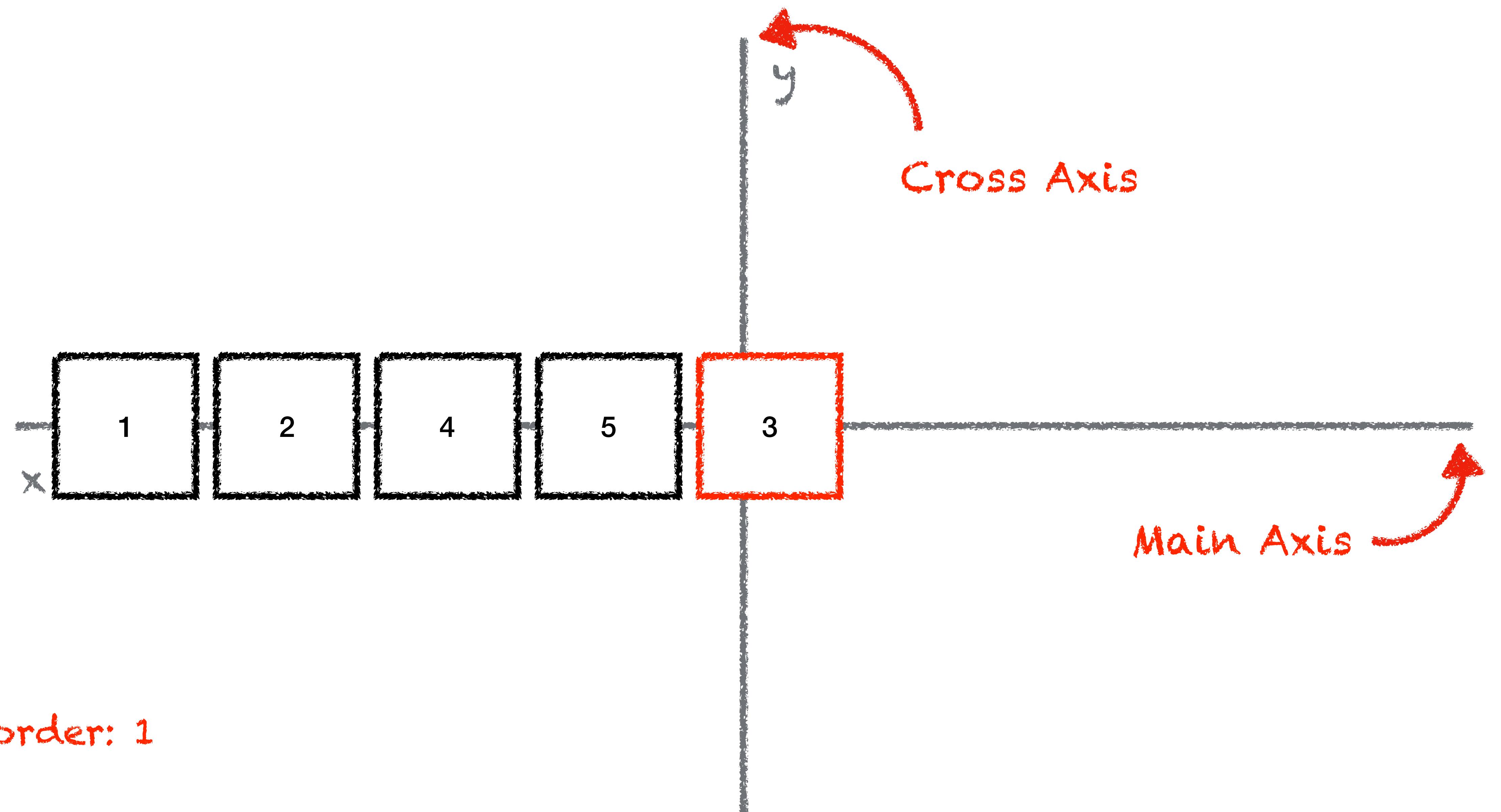
---

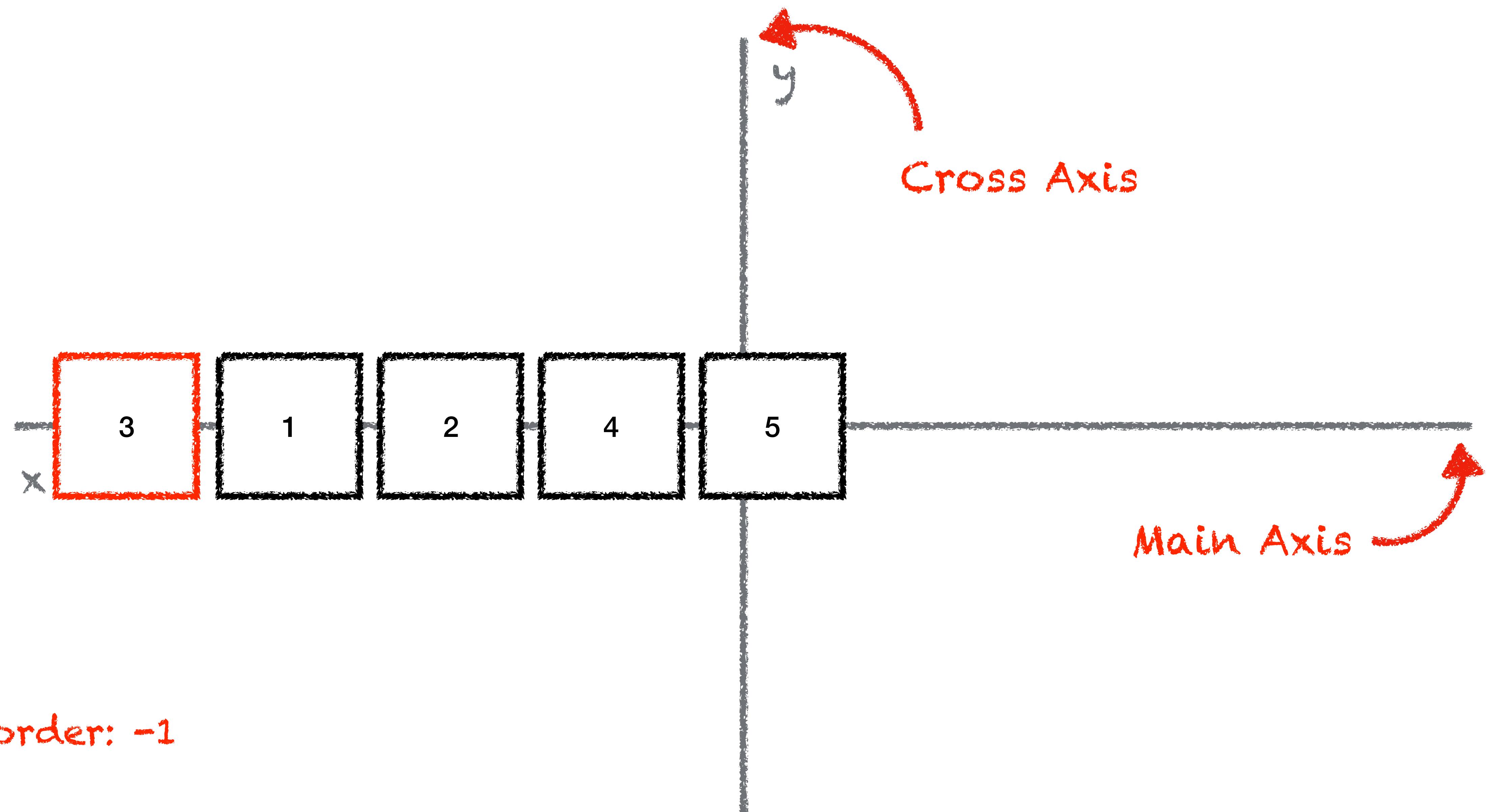
# ORDER



- By default, children of a **flexbox container** will be displayed in source order
- The **order** property alters that order
- The **order** property takes any positive or negative integer
- The default value is **0**
- Elements will be place in order by their order value

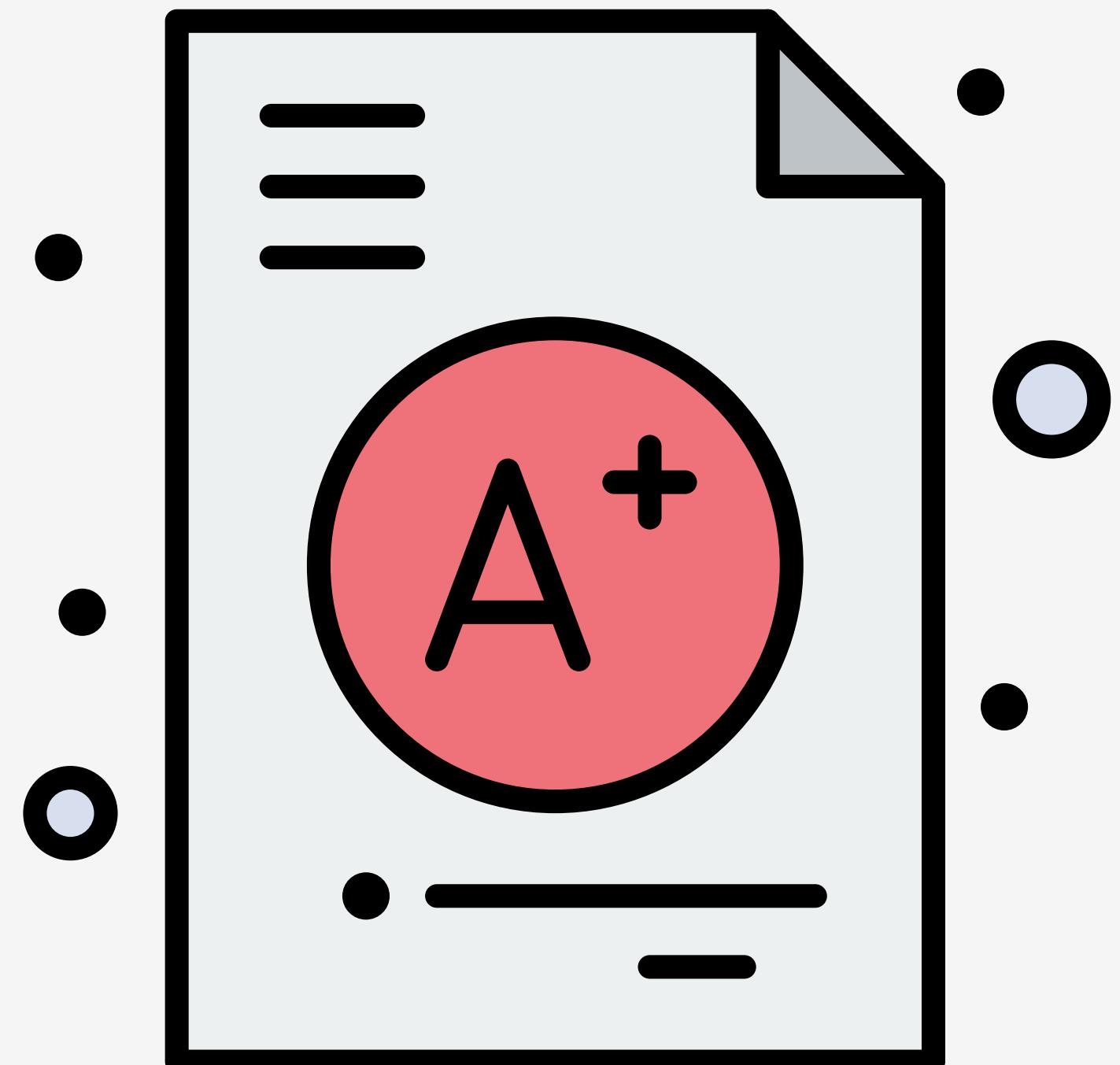




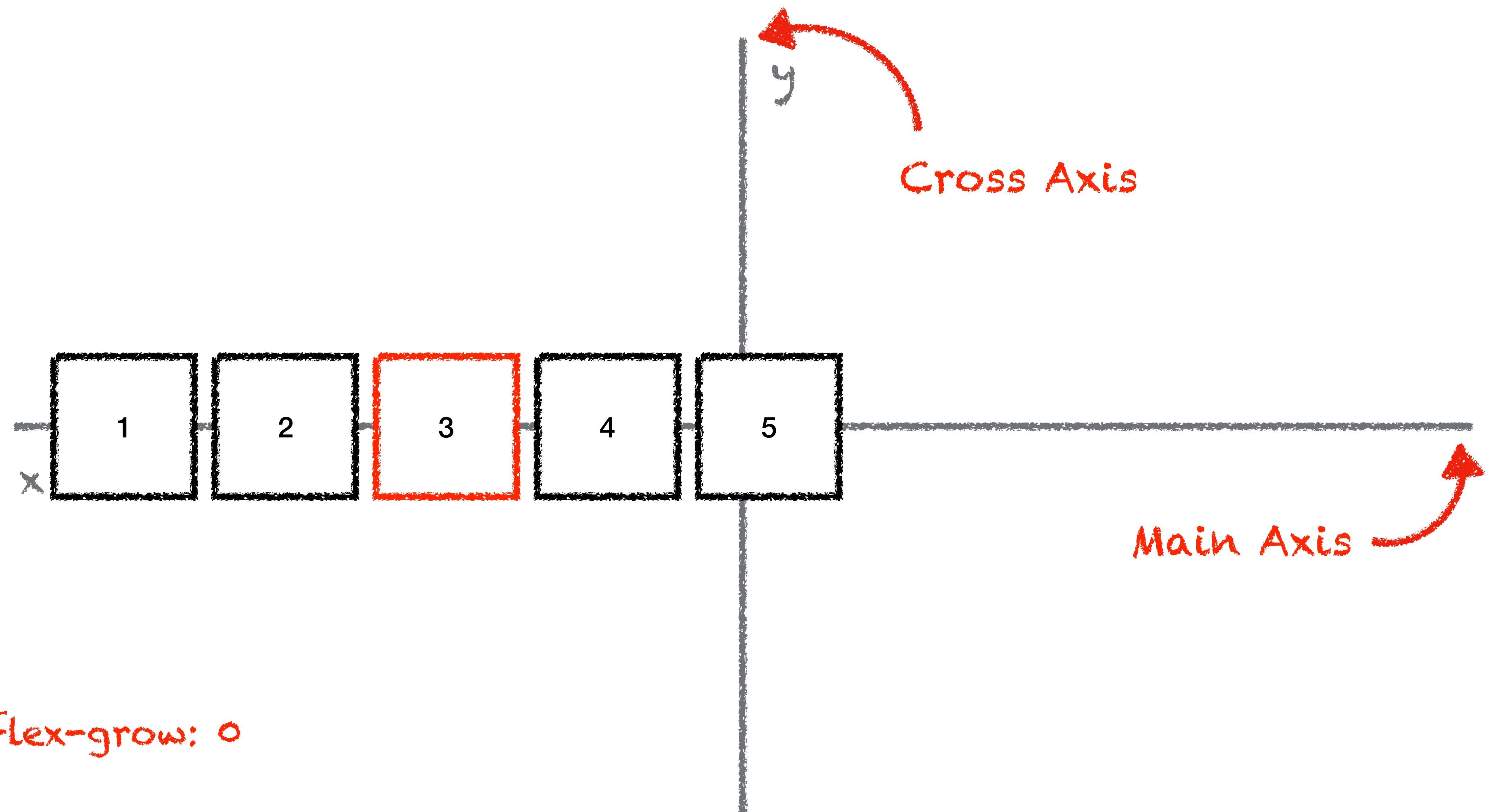


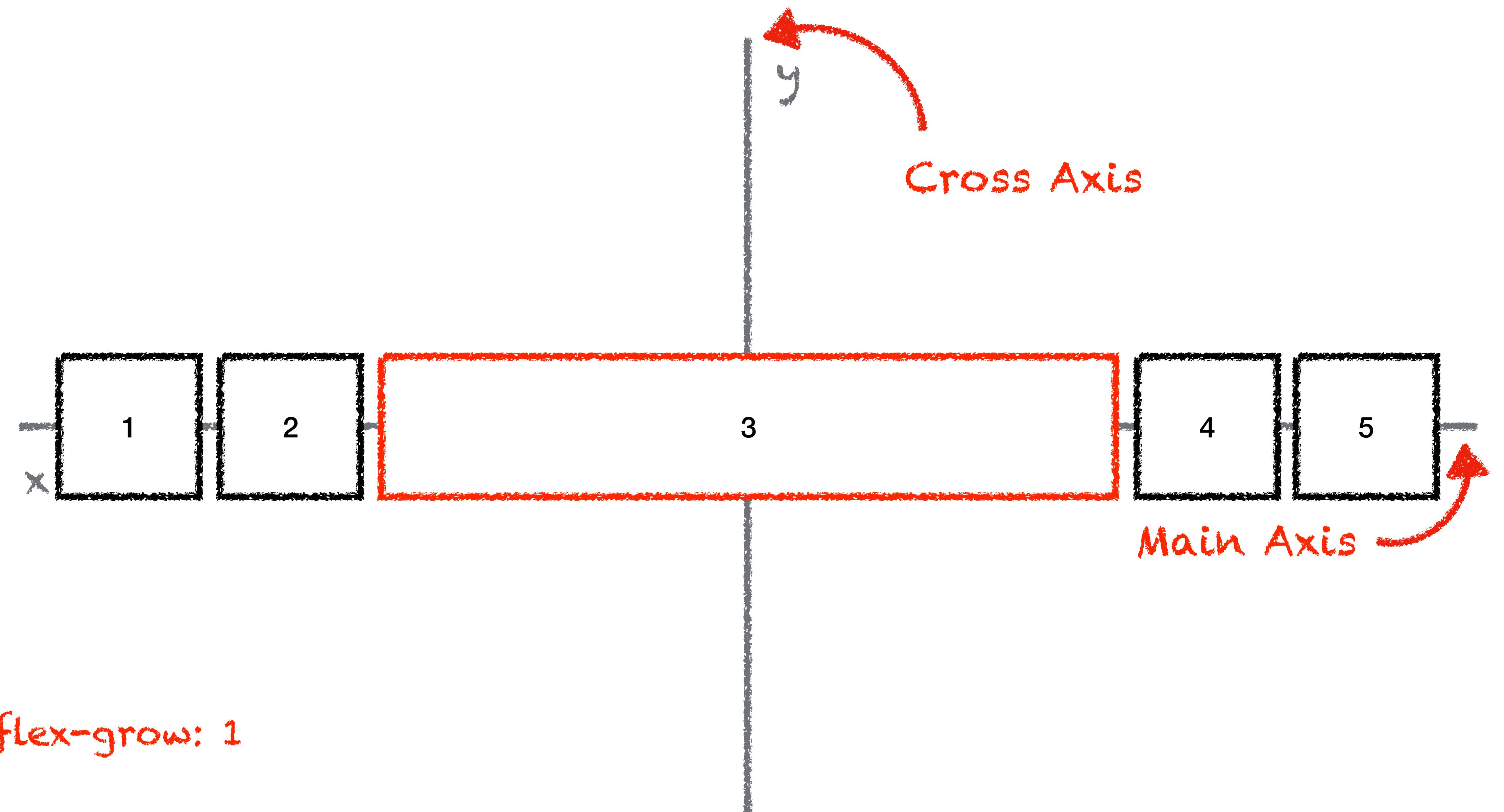
---

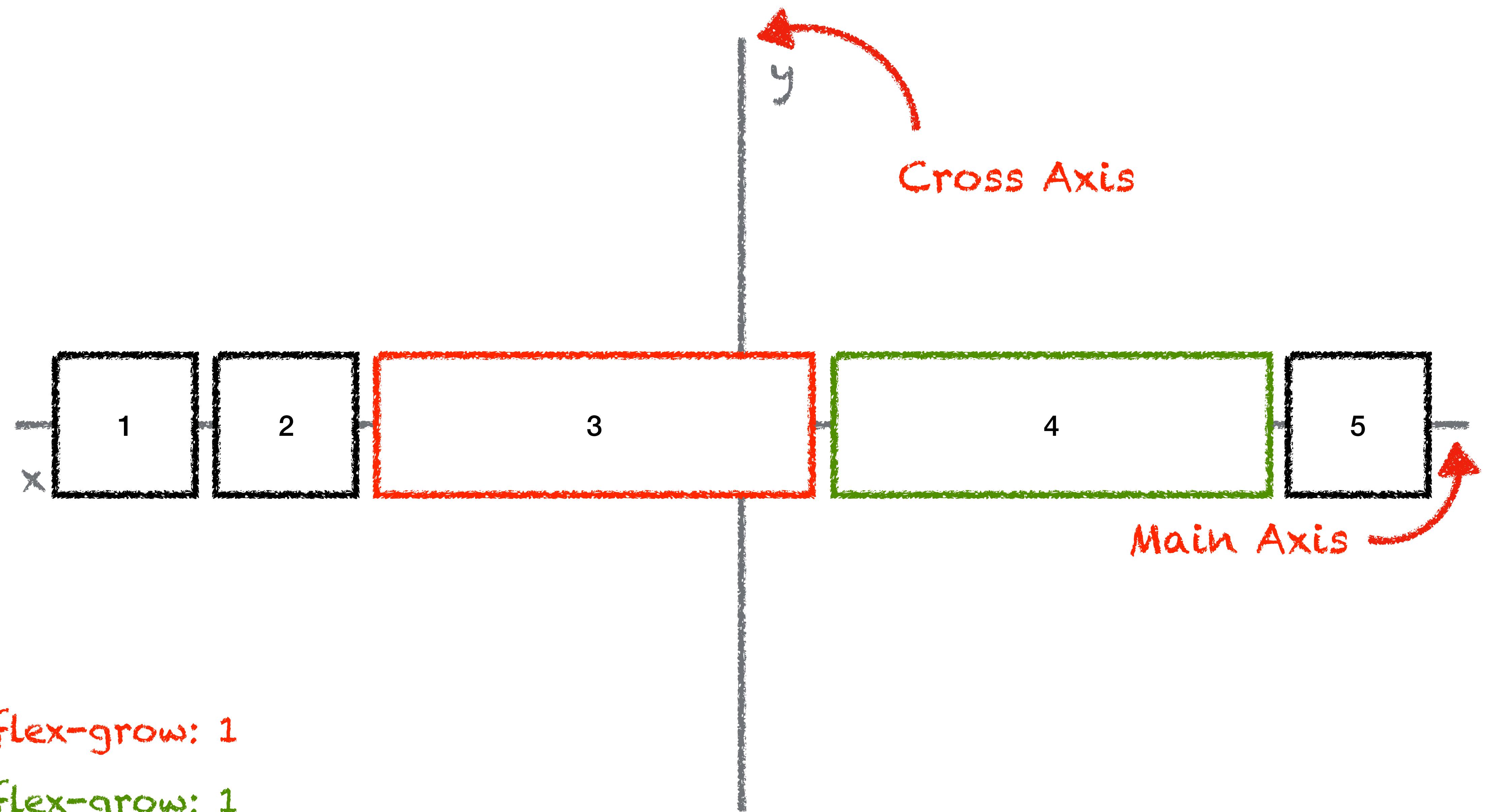
# FLEX-GROW

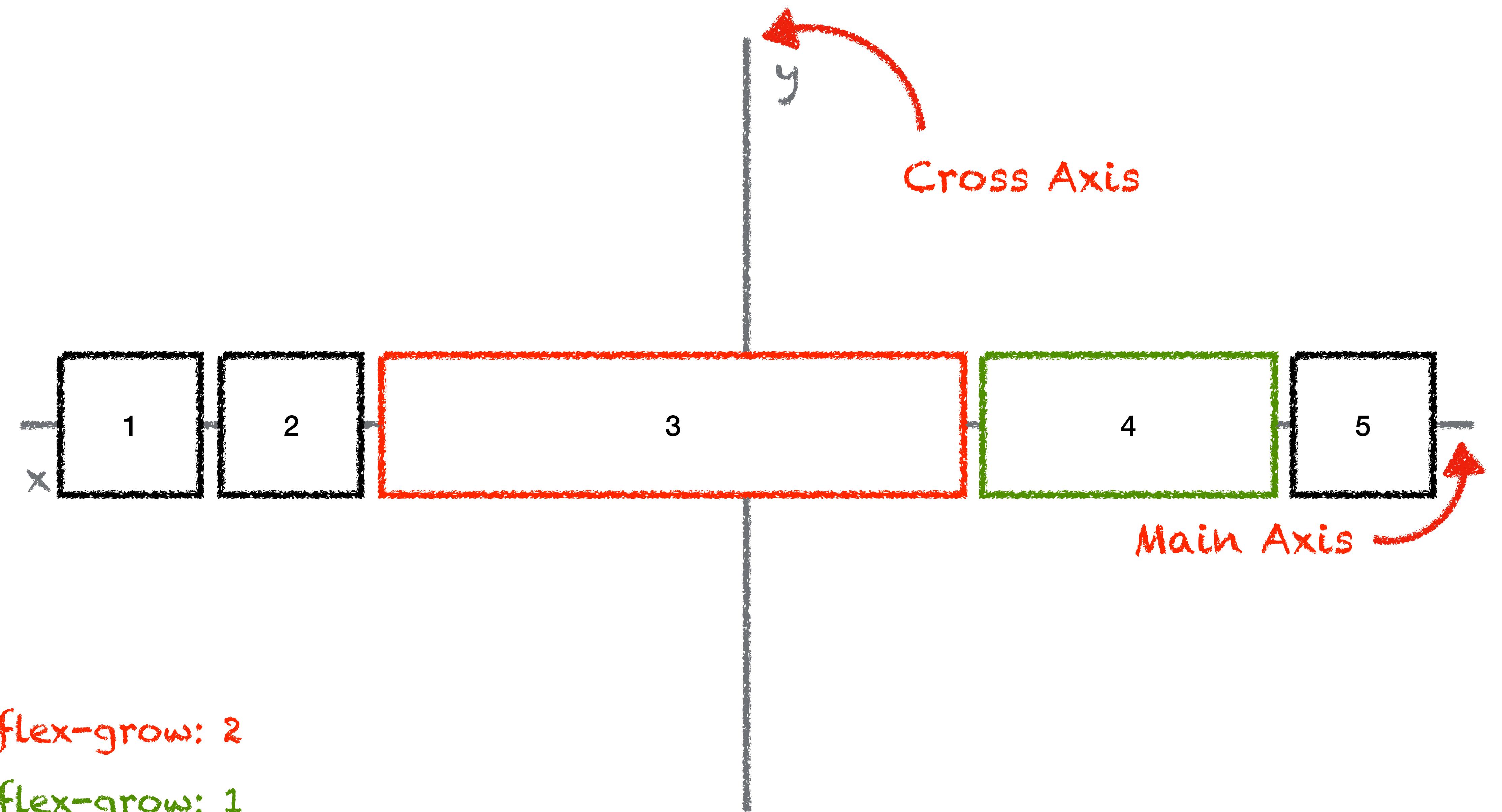


- By default, children will only as much space as necessary on the main axis
- The **flex-grow** property make the child "grow" to fill any available space
- The **flex-grow** property will take any positive integer, with **0** being the default.
- Elements with a higher **flex-grow** value will take more of the available space



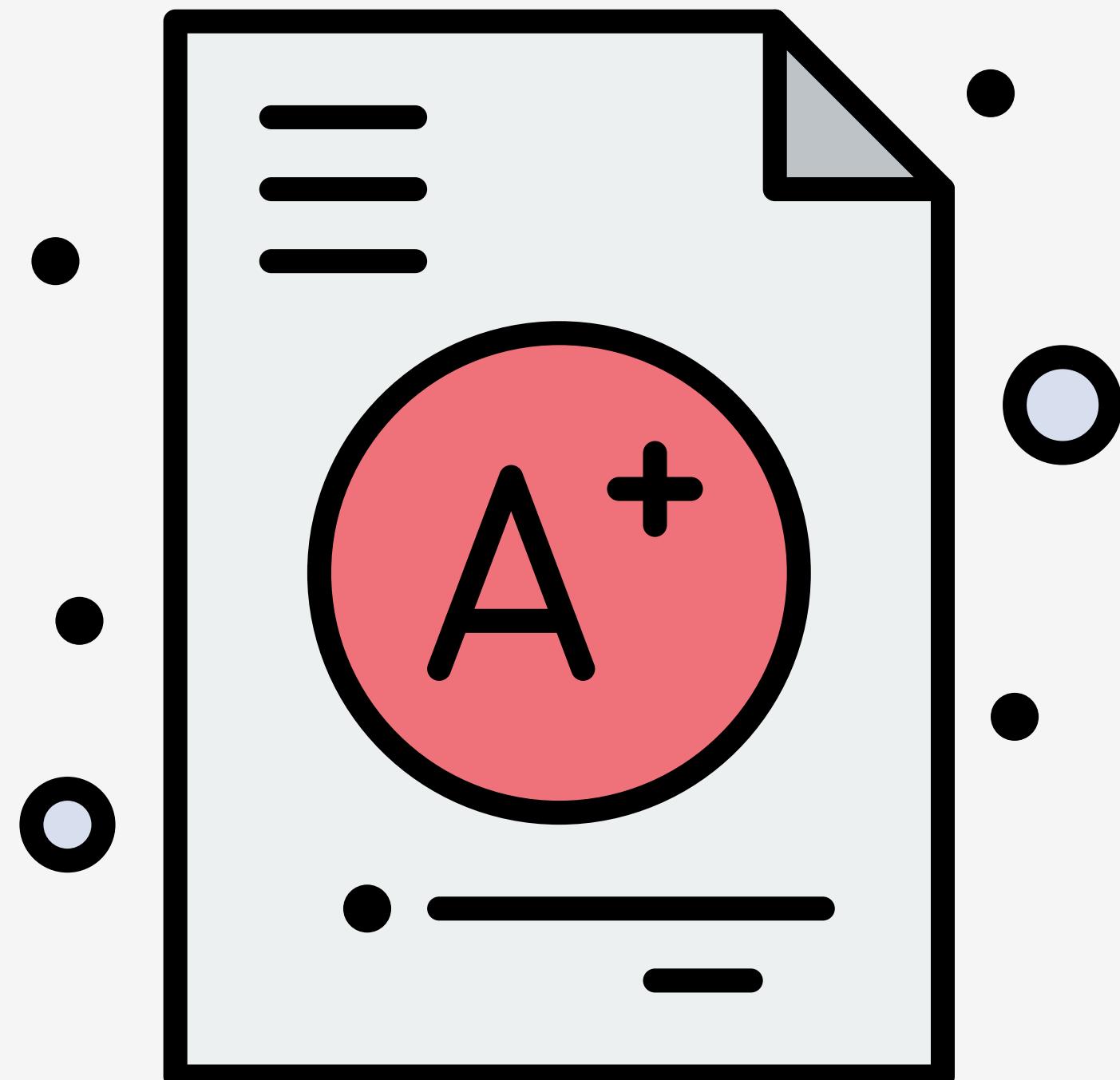




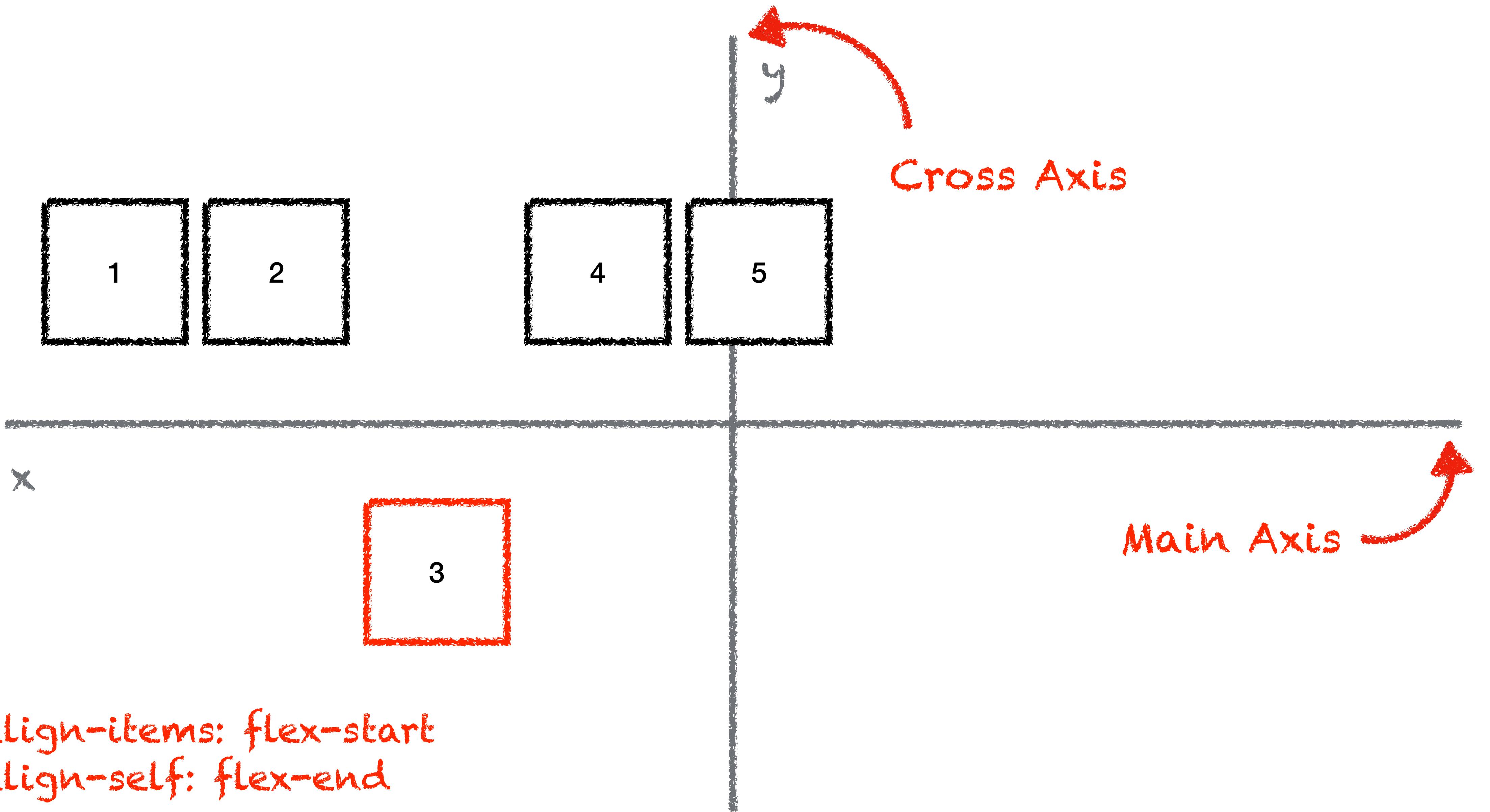


---

# ALIGN-SELF

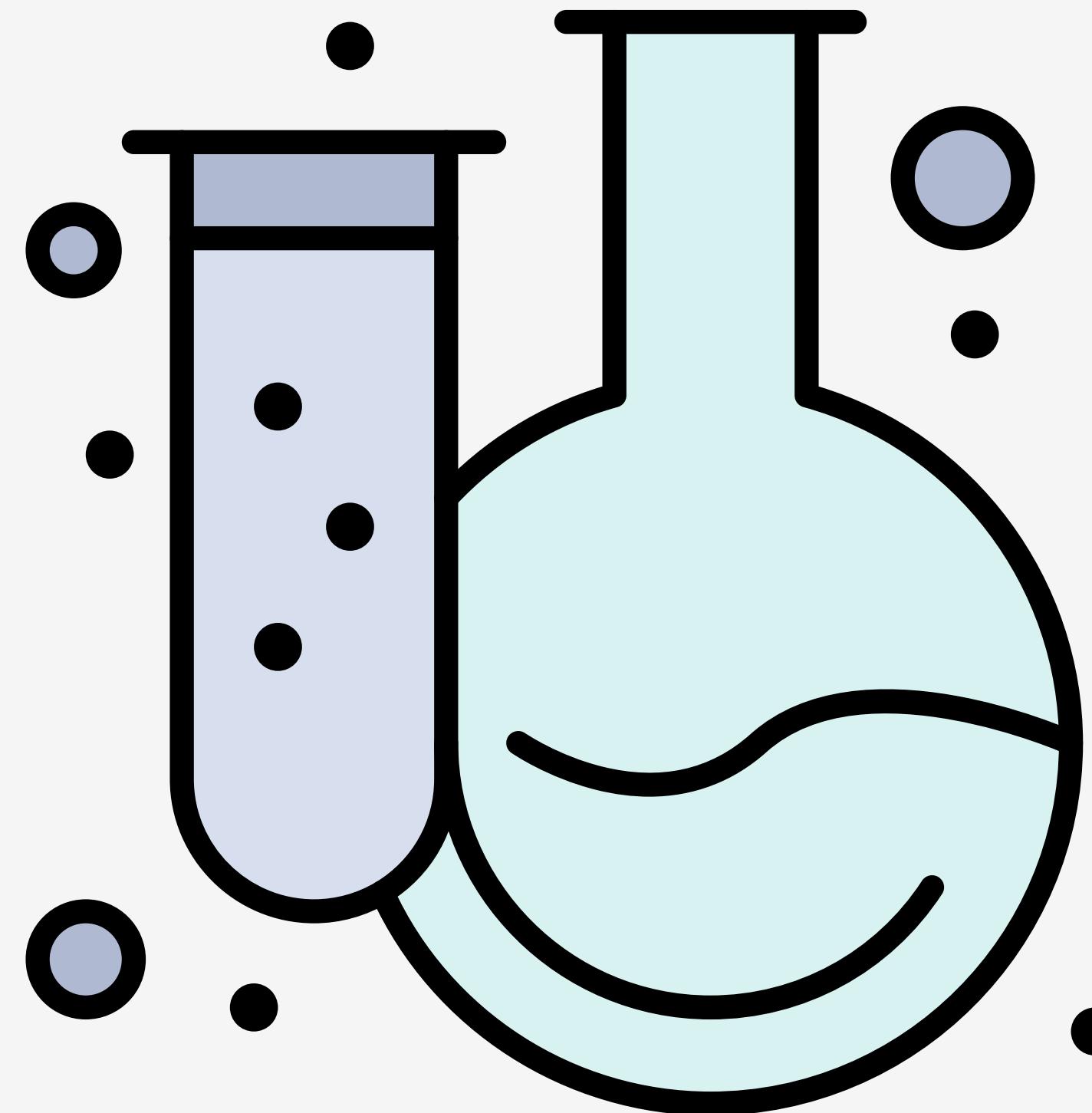


- The `align-self` property overrides the `align-items` property of the flex container
- The `align-self` property has all the same values as `align-items`



---

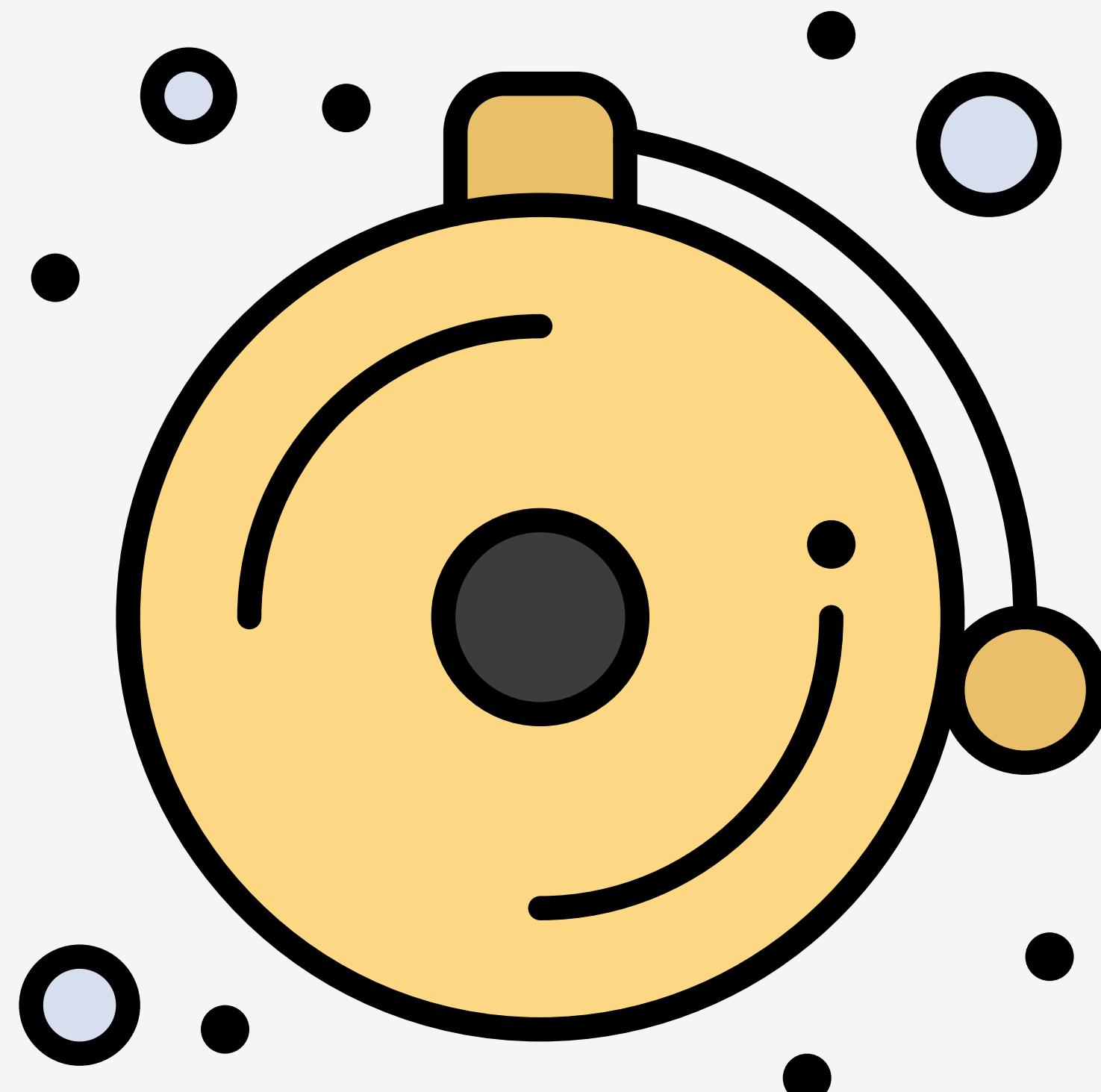
# FLEXBLOCKS



- ***FORK THE PEN!***
- Use flexbox to stack the blocks as shown
- Use the properties suggested for each stack
- Do ***NOT*** change the HTML
- Submit the URL to your pen
- ***DUE:*** Tue. Jan 21 @ 11:59 PM

---

# NEXT TIME...



- Flexbox Demonstration
- Exercise: Landing Page