

swaggy layouts with flexbox



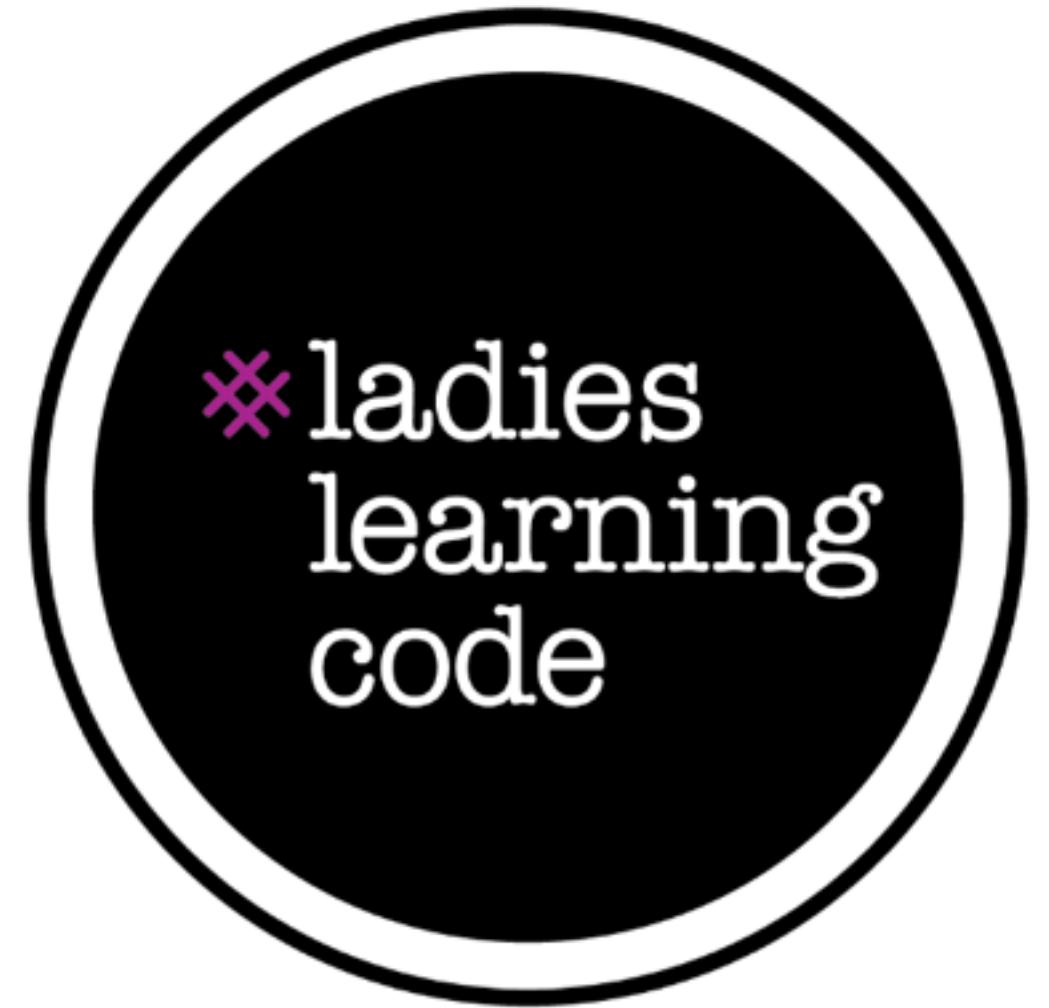
i'm haris.

@harismahmood89
meetharis.com



i'm haris.

I'm a developer at TWG



i'm haris.

I'm a content lead at Ladies Learning Code



i'm haris.

I'm an instructor at HackerYou

i get excited

i swear

i swear a lot

i swear a lot

emma watson

- where we were
- where we are today
- limitations
- the swag that is **flexbox**
- examples

Tim Berners-Lee 1980

-9

hella stoked

Tim Berners-Lee 1990

CSS 1996

aw snap.



Welcome to Amazon.com Books!

One million titles,
consistently low prices.

(If you explore just one thing, make it our personal notification service. We think it's very cool!)

SPOTLIGHT! -- AUGUST 16TH

These are the books we love, offered at Amazon.com low prices. The spotlight moves EVERY day so please come often.

ONE MILLION TITLES

Search Amazon.com's [million title catalog](#) by author, subject, title, keyword, and more... Or take a look at the [books we recommend](#) in over 20 categories... Check out our [customer reviews](#) and the [award winners](#) from the Hugo and Nebula to the Pulitzer and Nobel... and [bestsellers](#) are 30% off the publishers list...

EYES & EDITORS, A PERSONAL NOTIFICATION SERVICE

Like to know when that book you want comes out in paperback or when your favorite author releases a new title? Eyes, our tireless, automated search agent, will send you mail. Meanwhile, our human editors are busy previewing galleys and reading advance reviews. They can let you know when especially wonderful works are published in particular genres or subject areas. Come in, [meet Eyes](#), and have it all explained.

YOUR ACCOUNT

Check the status of your orders or change the email address and password you have on file with us. Please note that you **do not** need an account to use the store. The first time you place an order, you will be given the opportunity to create an account.

hot damn.

2015

we've come a long way

layouts

originally built using tables

then came **floats**

then came inline-block

“layouts are hard”

layouts are **tricky**

layouts are **tricky**

mainly because our current way of
implementing layouts are **all hacks**

floats and inline-block **were**
not designed to create layouts

limitations still exist

examples of yucky-ness

vertical centering

MAN JUMPS FROM SPACE



STILL CAN'T PROPERLY VERTICALLY ALIGN CSS

sticky footers

About Us

Behring, Khan & Co. offers independent investment solution & advisory services to institutional investors, including insurance companies and pension funds. The partnership provides critical solutions & services to the institutional investor to implement and optimize their investment strategies and serves as the investor's extended workbench.

The partners offer 30+ years combined experience across the three industries: Asset Management, Investment Banking and Insurance. This includes:

- Portfolio Management, Investment Analysis & Investment Operations
- Structuring, Restructurings & Regulatory Experience
- Marketing, Distribution & Syndication of OTC products to institutional investors

the holy grail layout

fixed height
100% width

fixed width
100% height

100% width
100% height

fixed width
100% height

fixed height
100% width

notes

footer should 'stick' to the bottom when not enough content is present

the centre column should appear first in the markup

these are just some of the
issues that developers face



enter **flexbox**

The flexbox layout module
was created to help build
efficient layouts

more complex

more flex-ible

less hacky



Eric A. Meyer

@meyerweb



Following

Let me put it this way: however excited you are about CSS flexboxes, I'm willing to bet you're nowhere near excited enough.



[Reply](#)



[Retweeted](#)



[Favorite](#)



[More](#)

15

RETWEETS

9

FAVORITES



2:58 PM - 3 Jun 13

can i have browser
support?

sorta. ish. yeah.



IE
10+

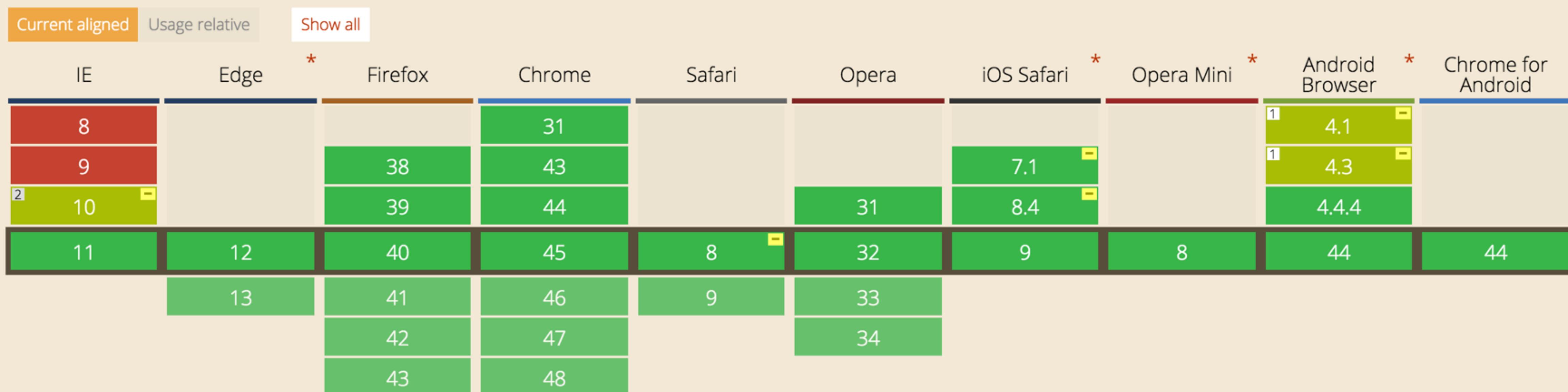
<https://philipwalton.github.io/solved-by-flexbox/>

Flexible Box Layout Module WD

Global 80.97% + 13.85% = 94.82%

unprefixed: 71.07% + 0.18% = 71.24%

Method of positioning elements in horizontal or vertical stacks.
Support includes the support for the all properties prefixed with `flex` as well as `display: flex`, `display: inline-flex`, `align-content`, `align-items`, `align-self`, `justify-content` and `order`.



Notes

Known issues (9)

Resources (10)

Feedback

Most partial support refers to supporting an [older version](#) of the specification or an [older syntax](#).

¹ Only supports the [old flexbox](#) specification and does not support wrapping.

² Only supports the [2012 syntax](#)

³ Does not support flex-wrap or flex-flow properties



the globe and mail

A photograph showing a man in a dark suit and tie smiling while holding a smartphone. He is surrounded by other people, some of whom are also looking at their phones. The setting appears to be an outdoor event or press conference.



property definition

2009

box-

display: flexbox

display: flex

```
display: -webkit-box;
display: -webkit-flex;
display: -ms-flexbox;
display: flex;
-webkit-box-pack: justify;
-webkit-justify-content: space-between;
-ms-flex-pack: justify;
justify-content: space-between;
-webkit-box-align: center;
-webkit-align-items: center;
-ms-flex-align: center;
align-items: center;
-webkit-flex-wrap: wrap;
-ms-flex-wrap: wrap;
flex-wrap: wrap;
```

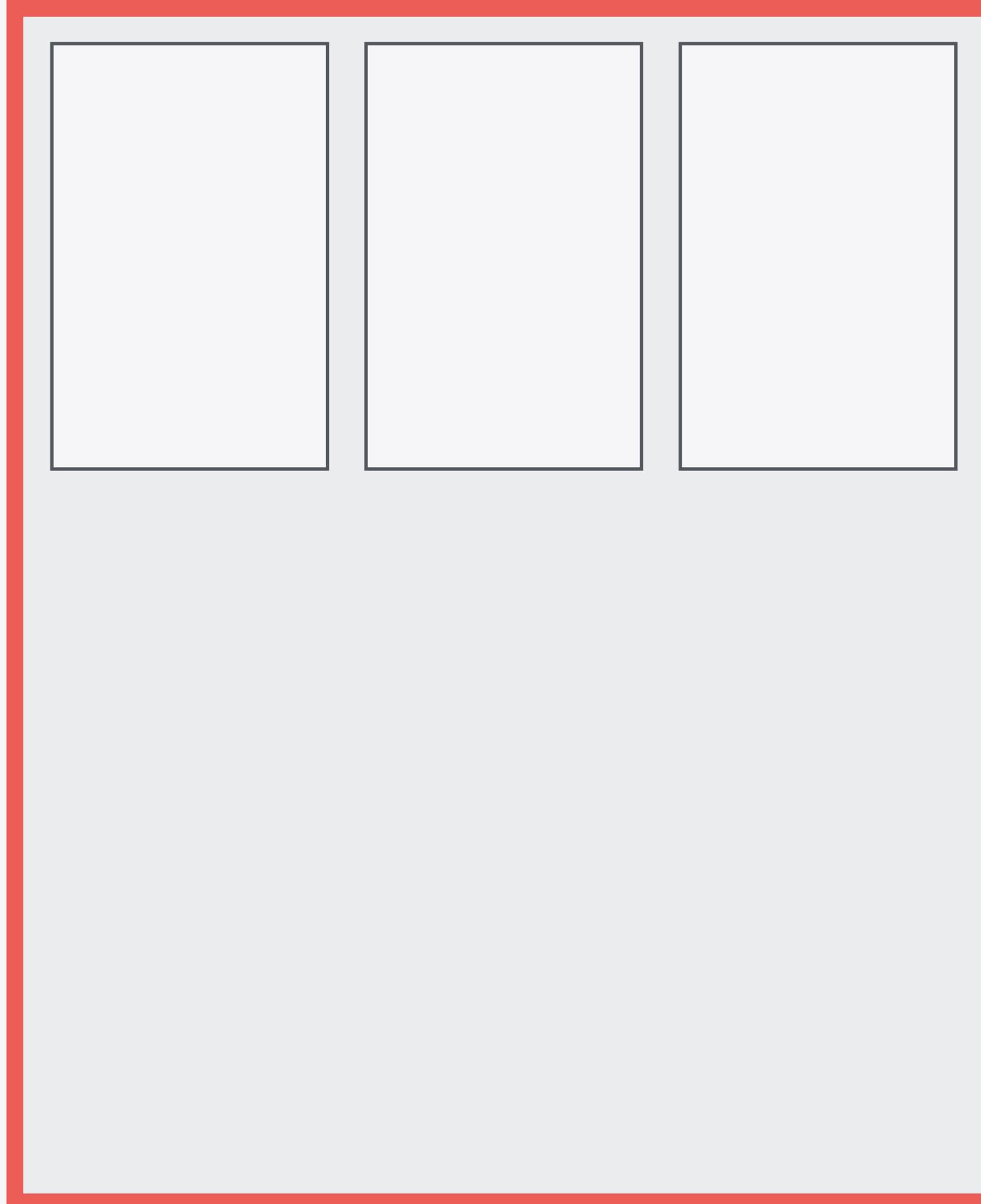
autoprefixer

lack of support
beyond browsers

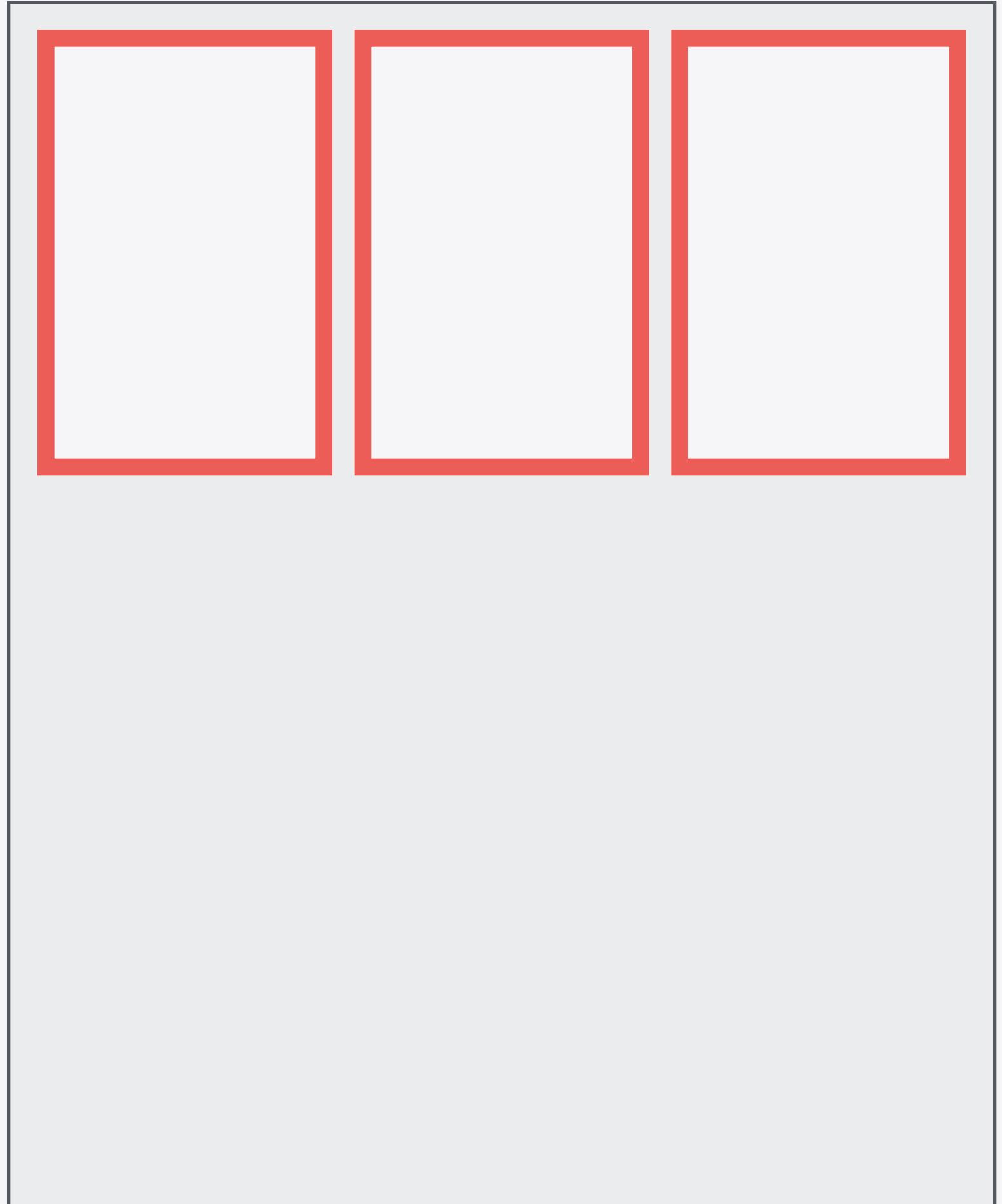
scrollmagic.js



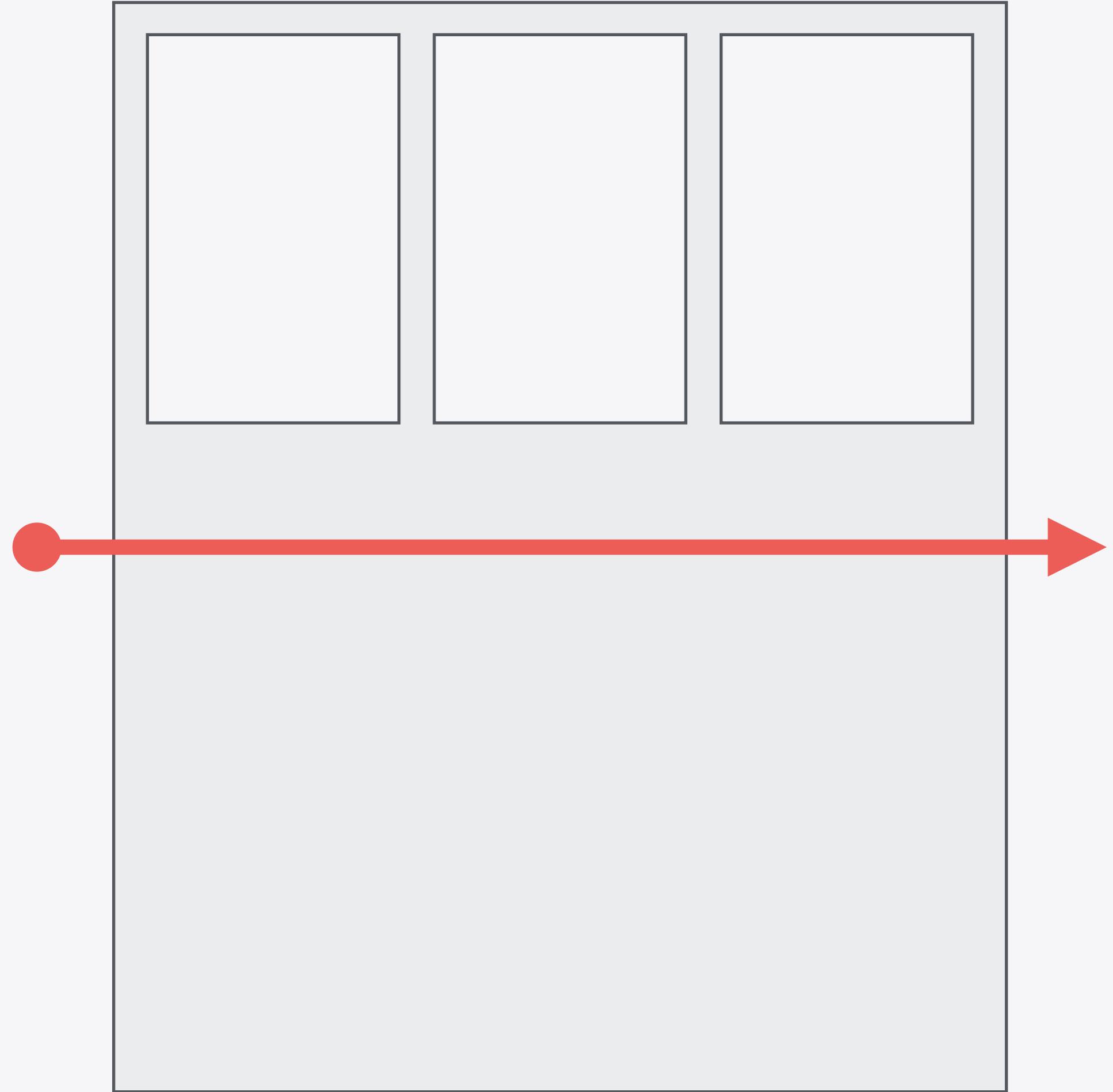
4 initial concepts



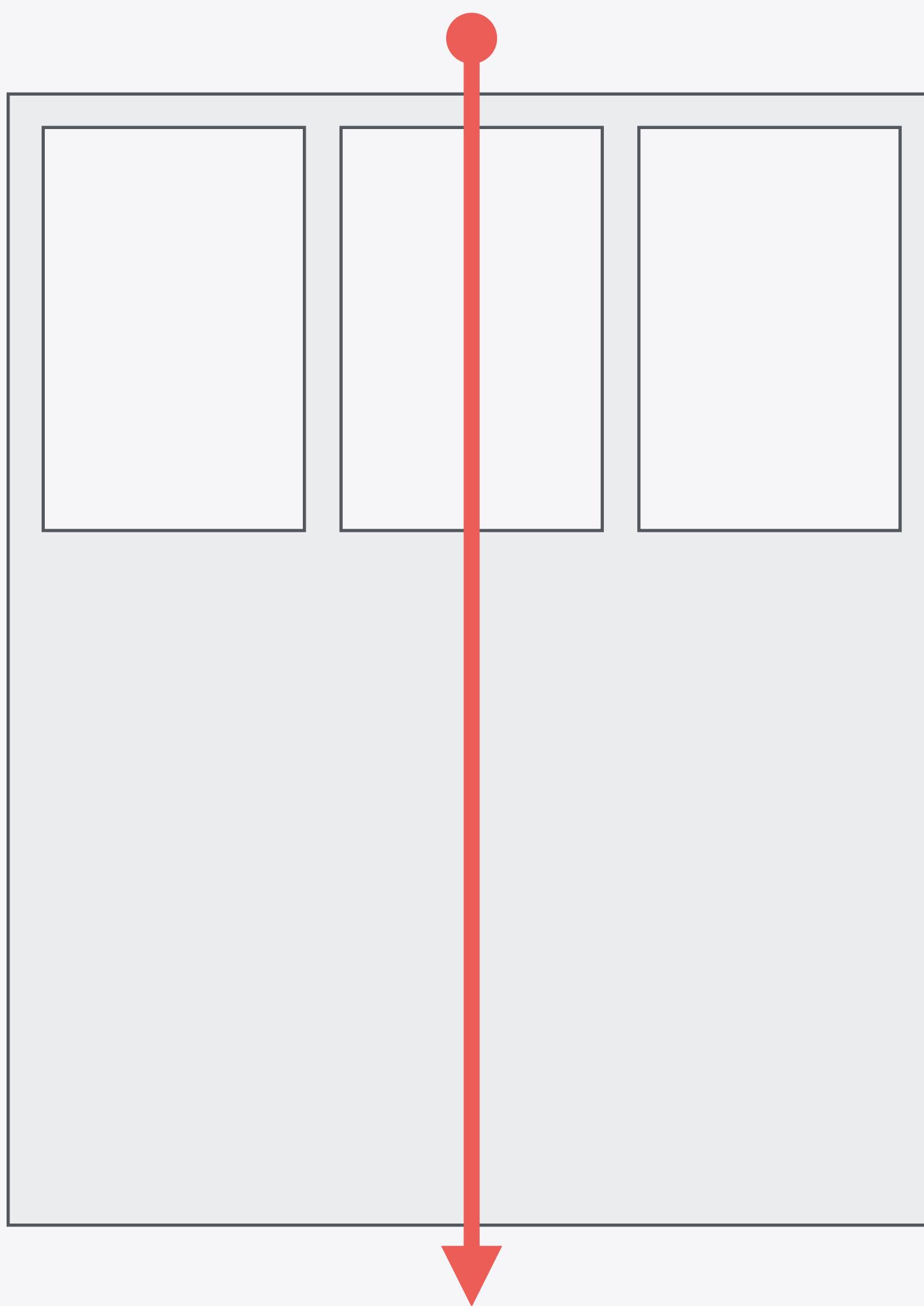
flex container



flex items
(or flex children)



main axis



cross axis

you will either apply CSS to
the container, or the items

flex container

display: flex;

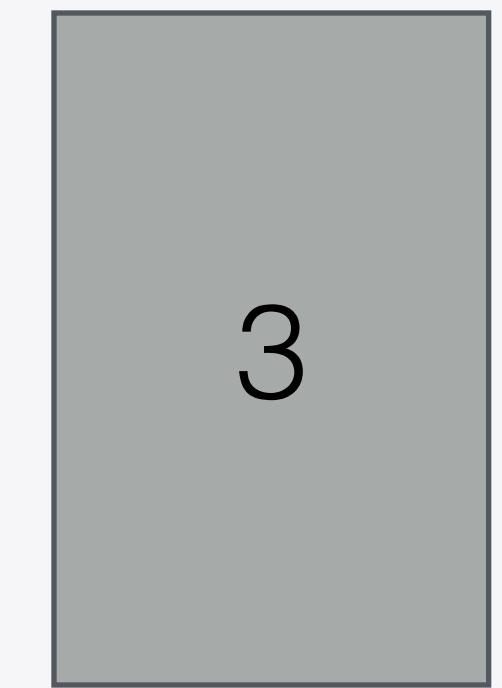
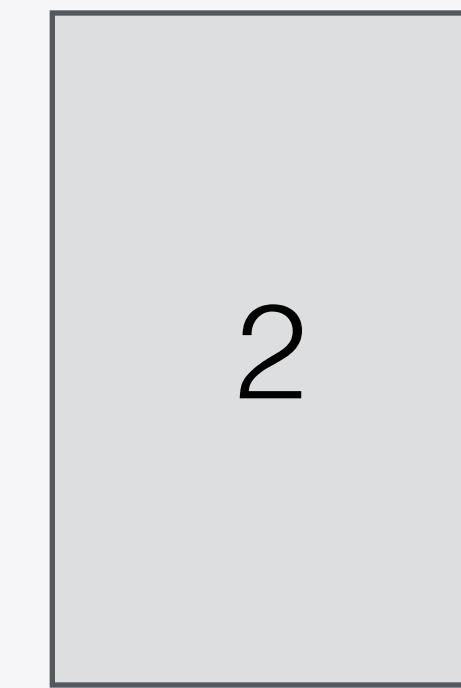
this is the magic.



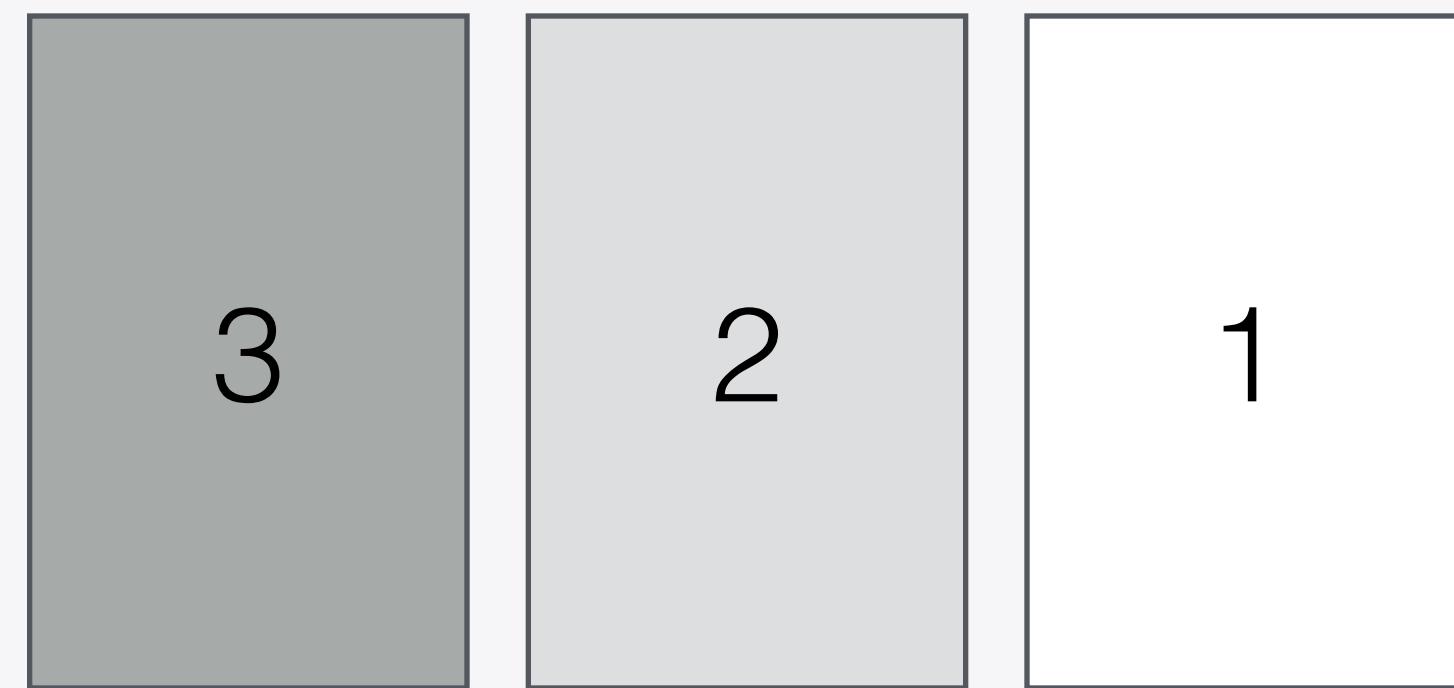
flex container

flex-direction

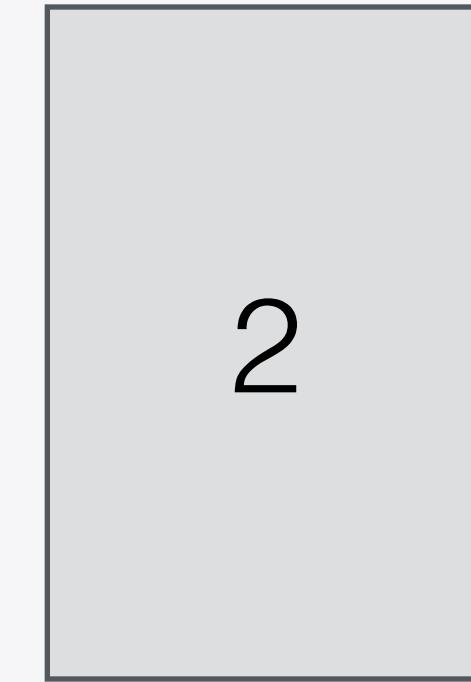
control the direction of flow for the flex items
sets the main axis



flex-direction: row;



flex-direction: row-reverse;



flex-direction: column;

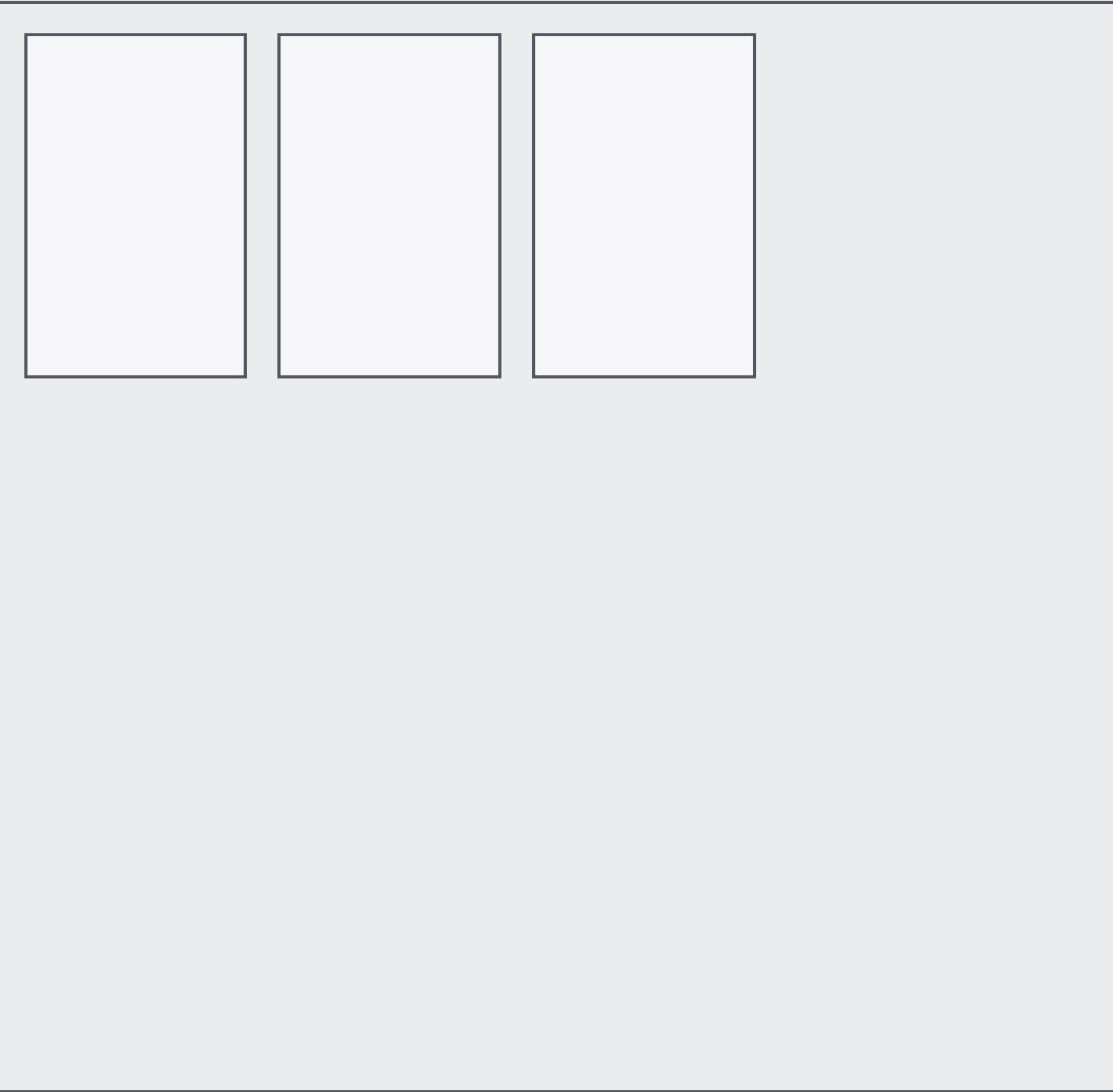
`flex-direction: column-reverse;`



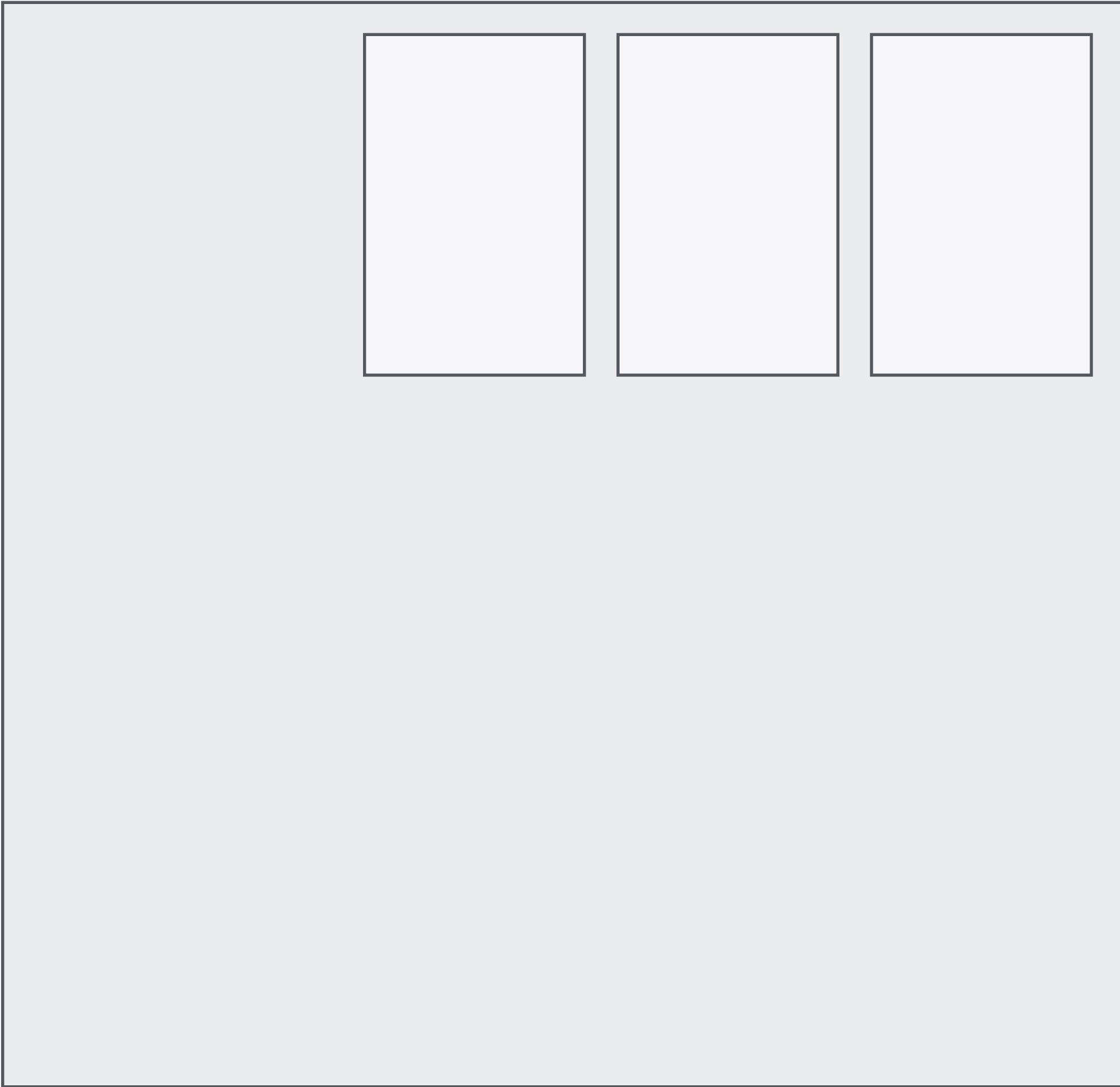
flex container

justify-content

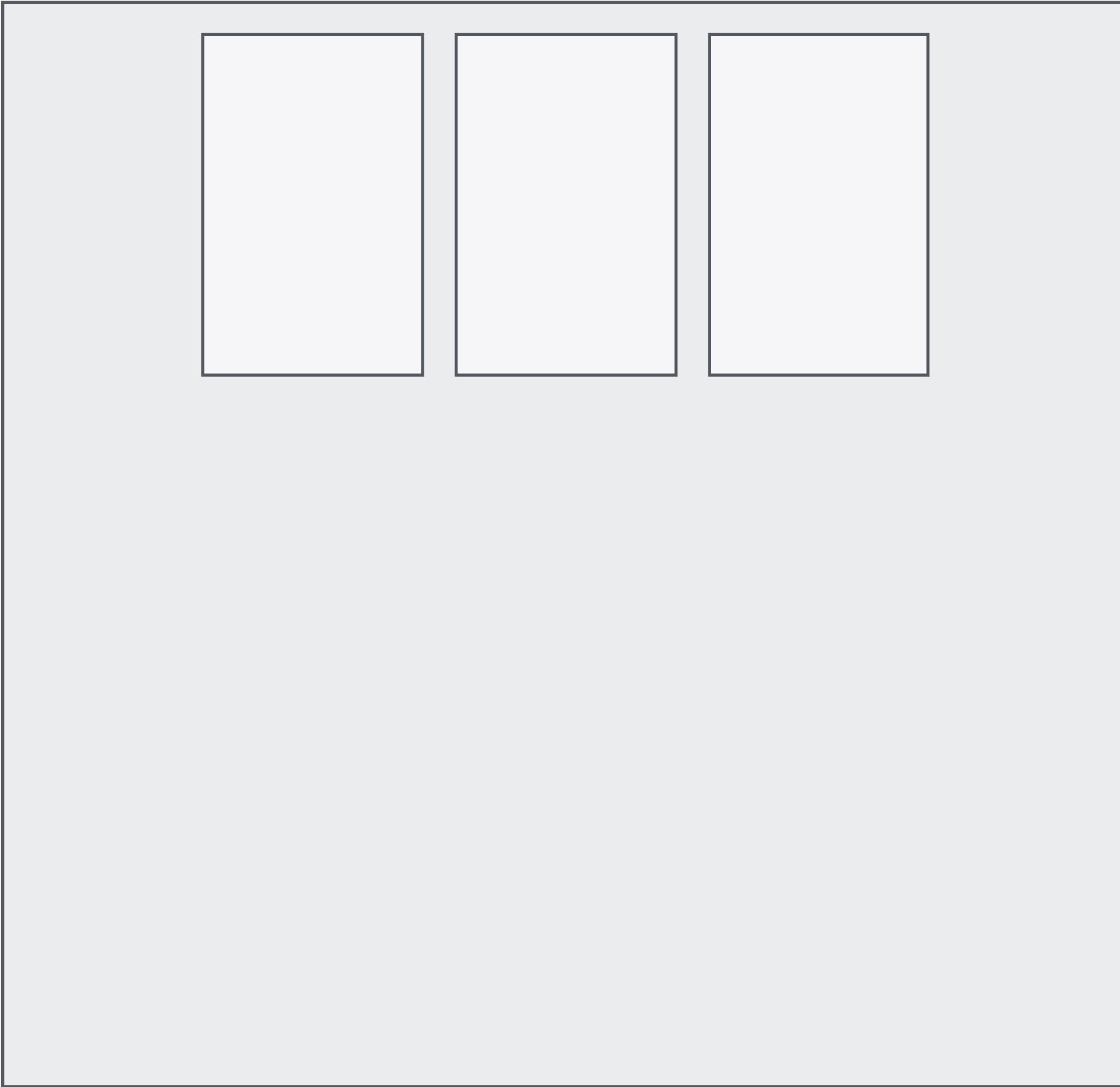
control how flex items should justify/align on the **main axis**



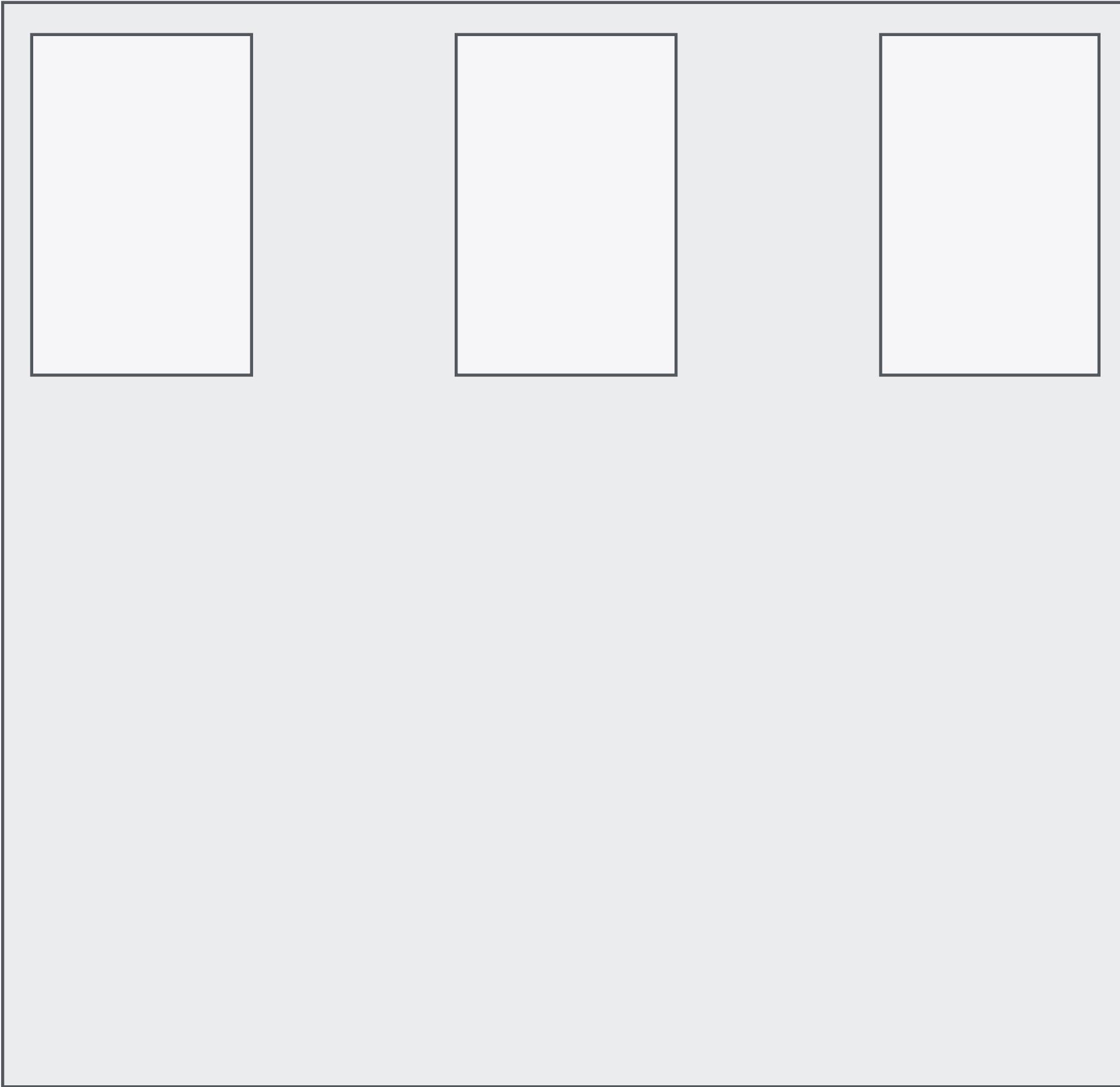
`justify-content: flex-start;`



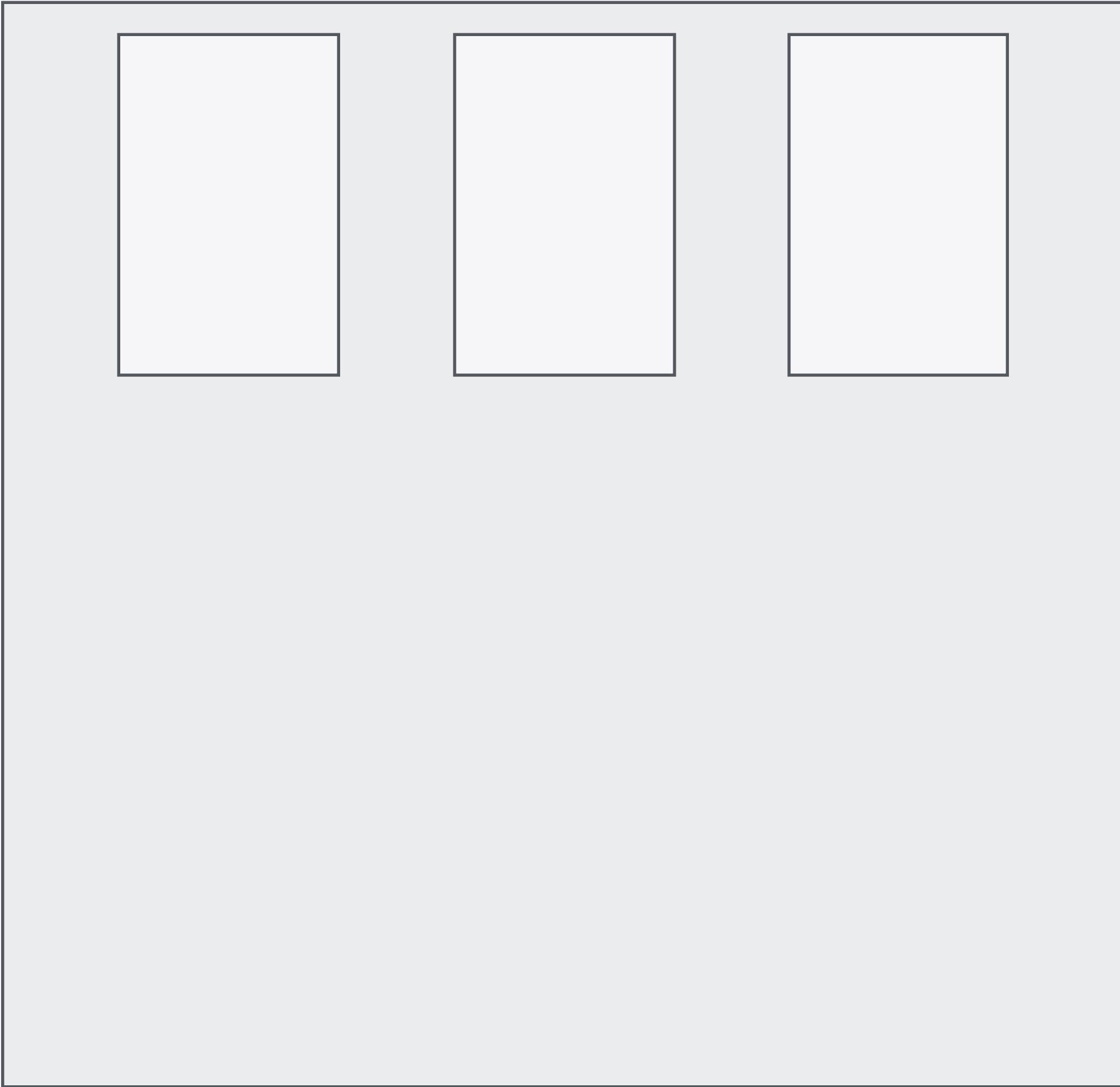
justify-content: flex-end;



`justify-content: center;`



justify-content: space-between;

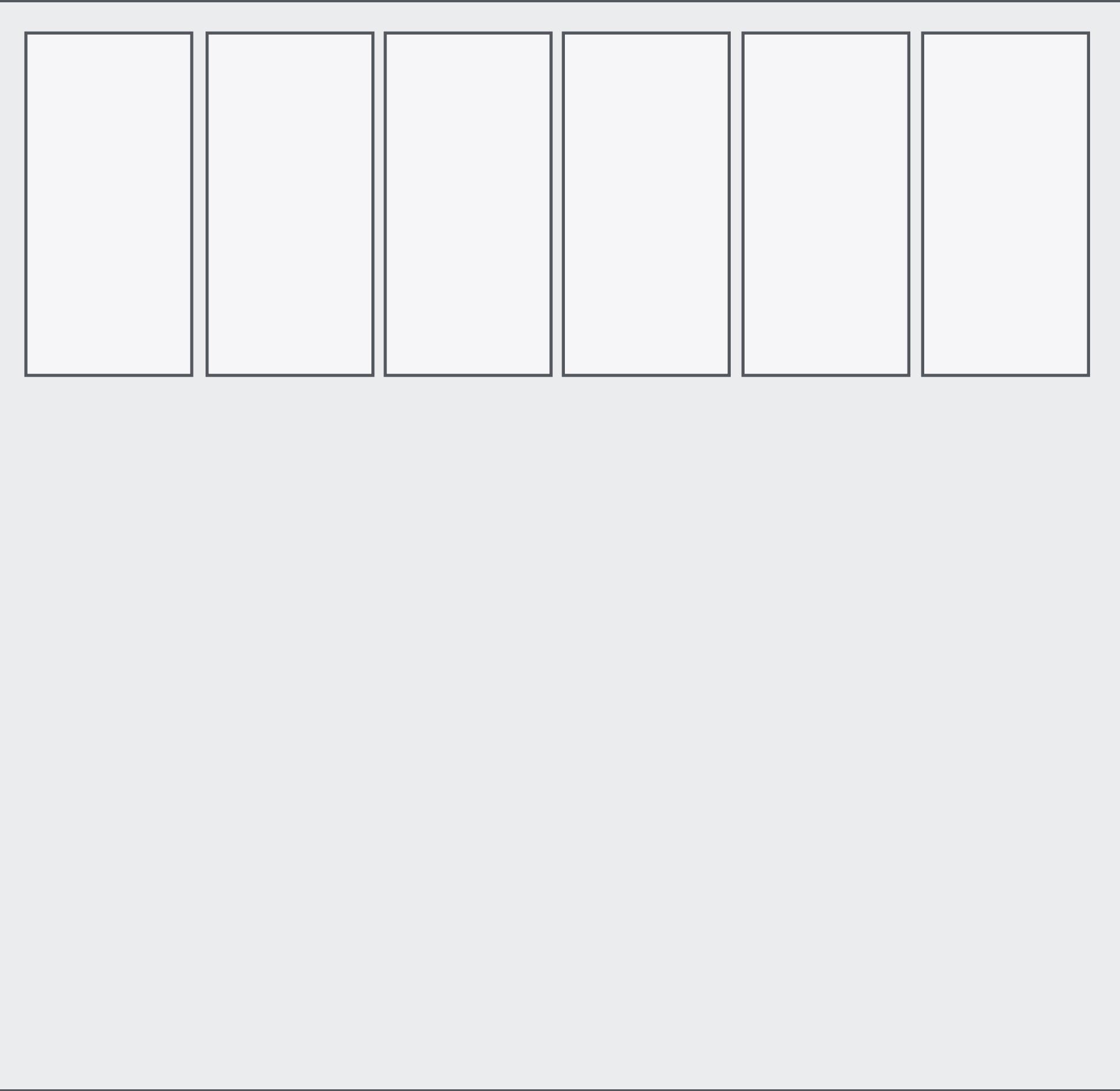


justify-content: space-around;

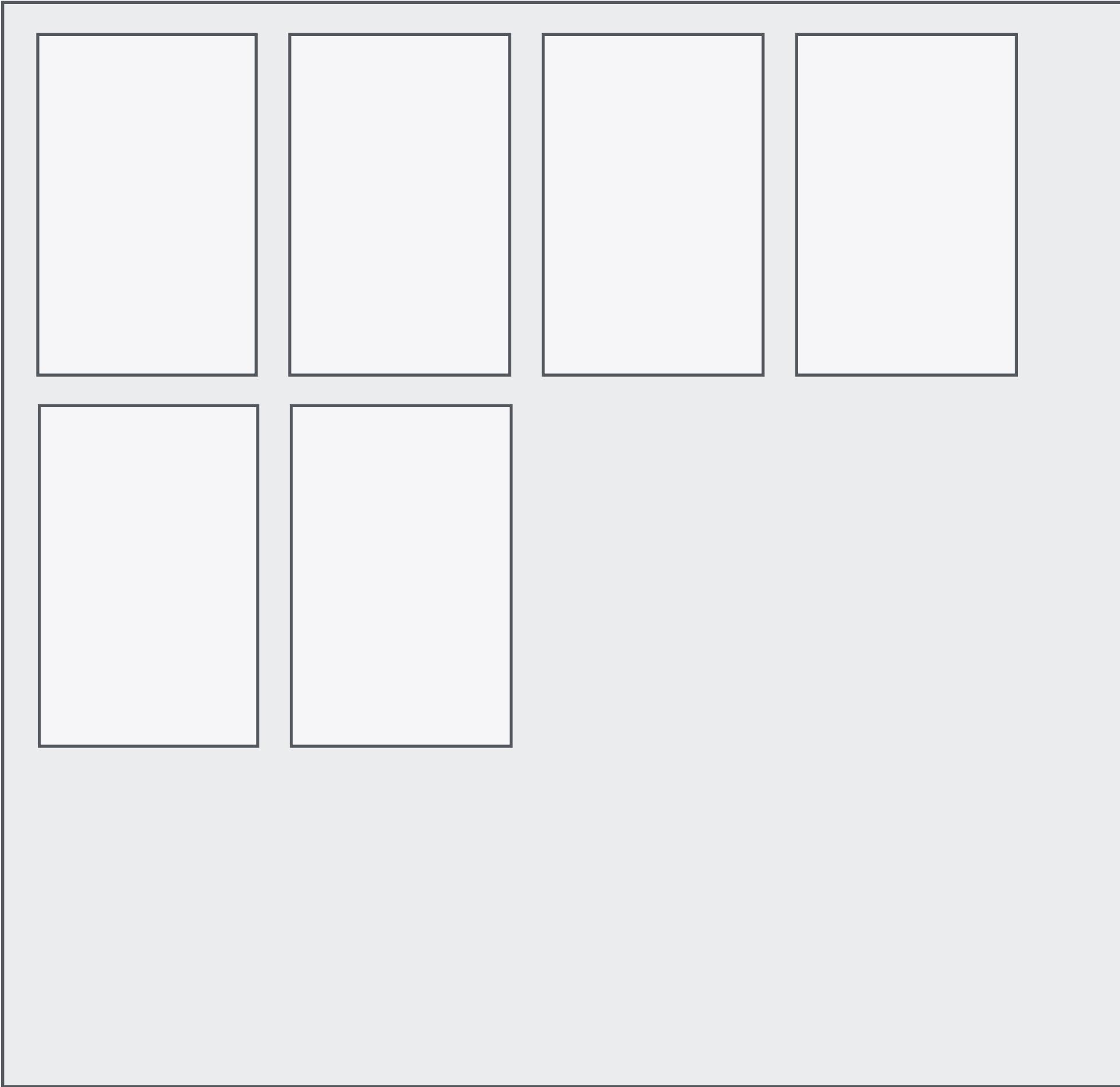
flex container

flex-wrap

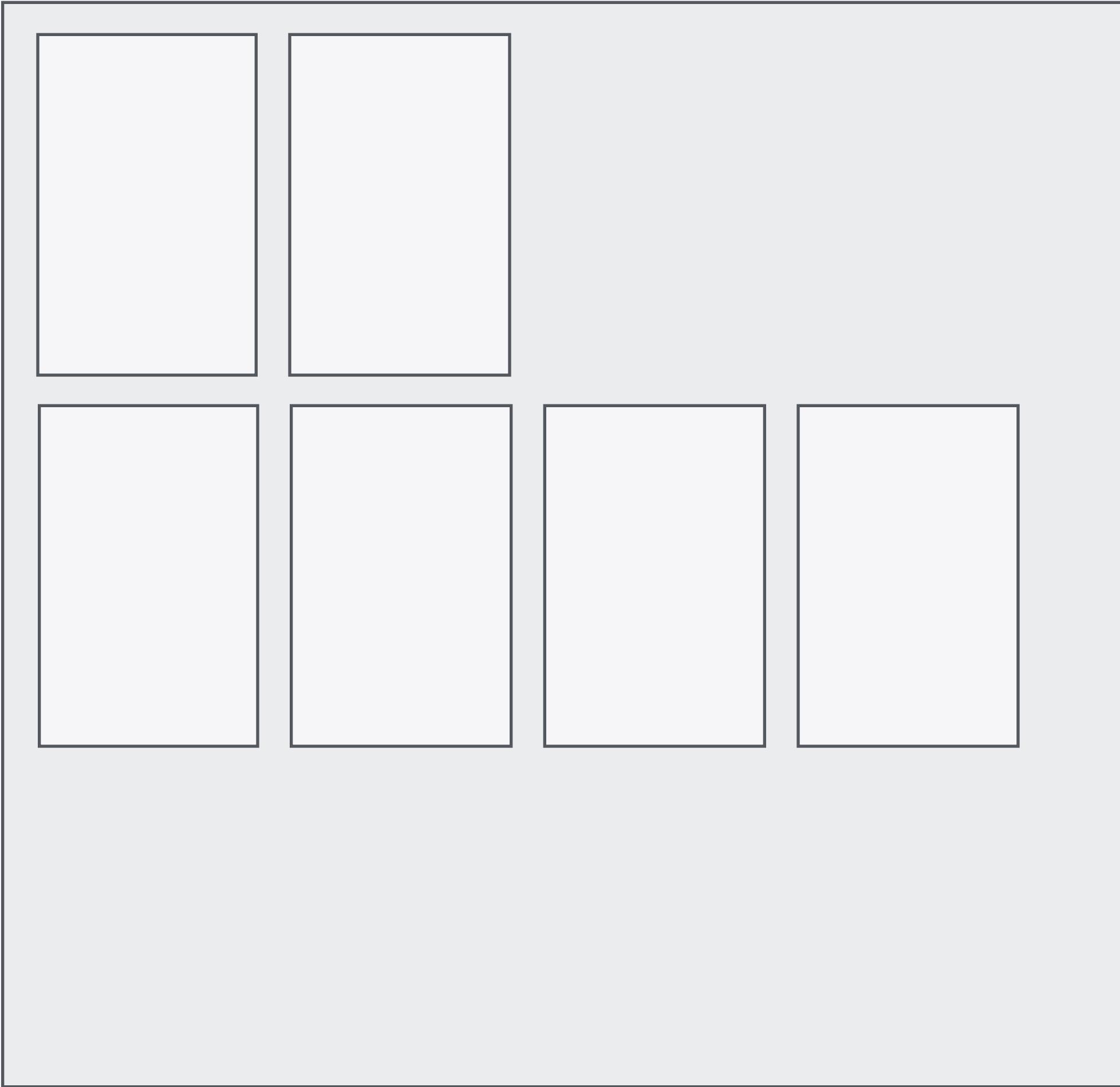
control item behaviour when adjusting viewport size



flex-wrap: nowrap;



`flex-wrap: wrap;`

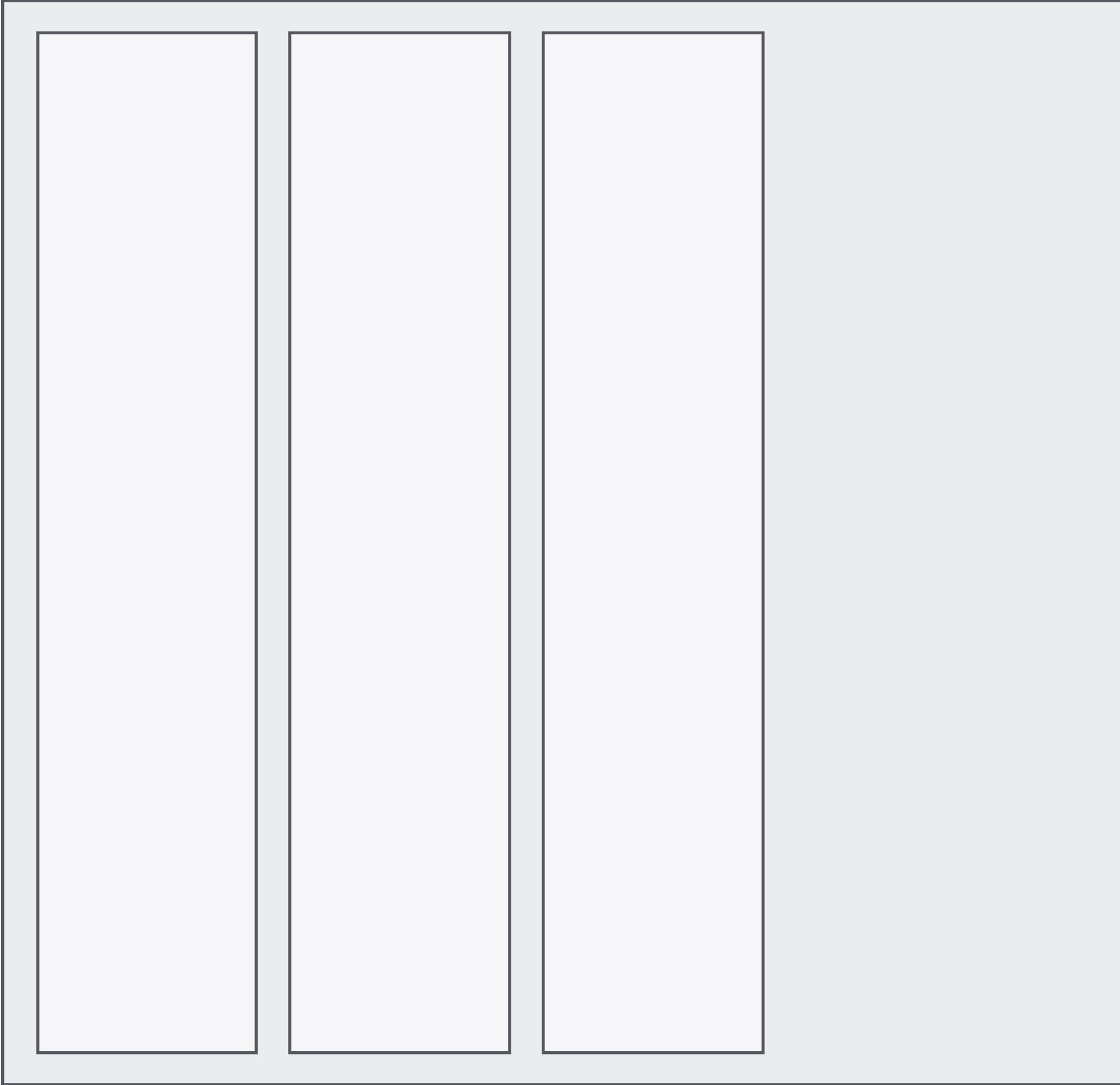


`flex-wrap: wrap-reverse;`

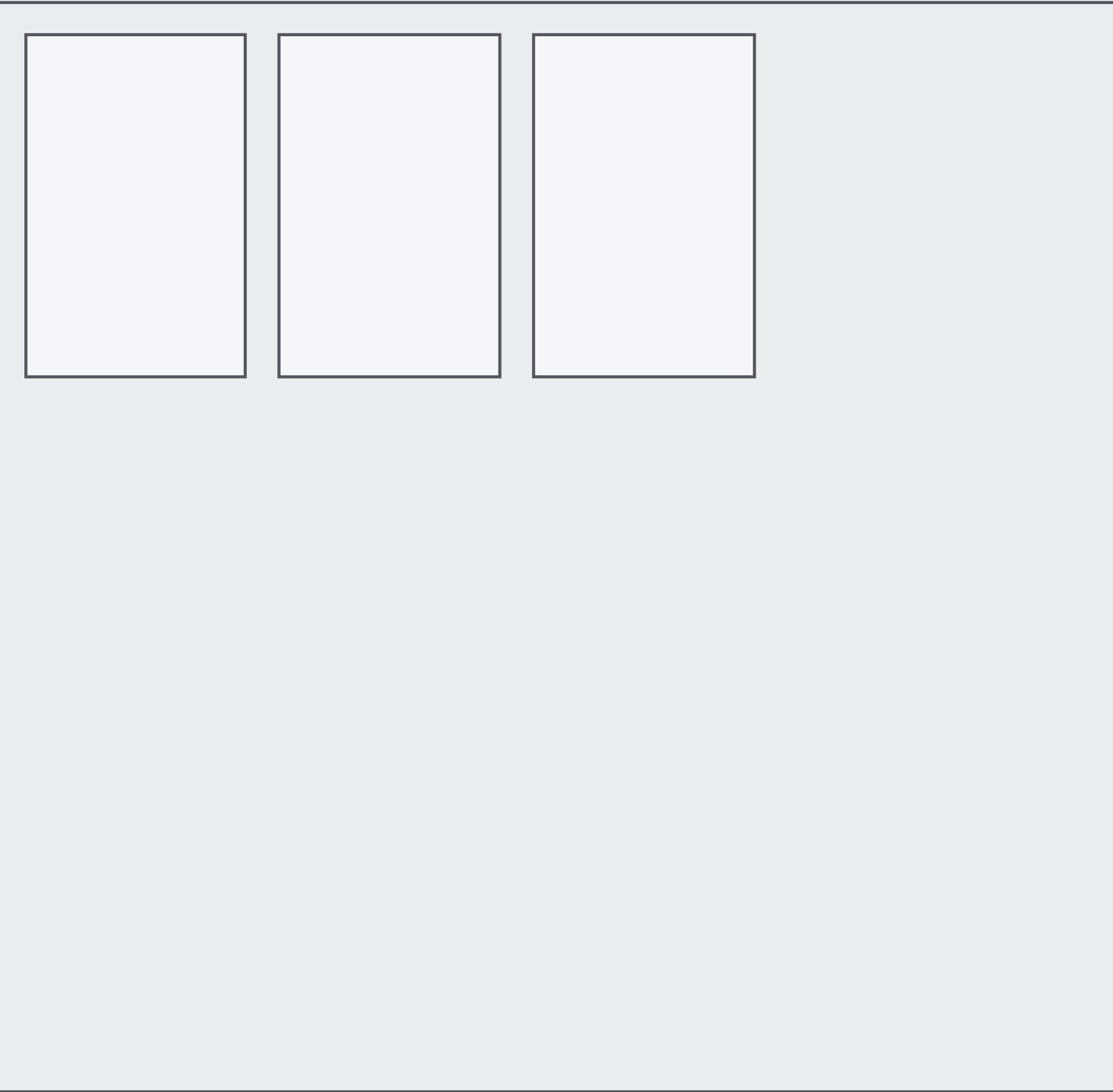
flex container

align-items

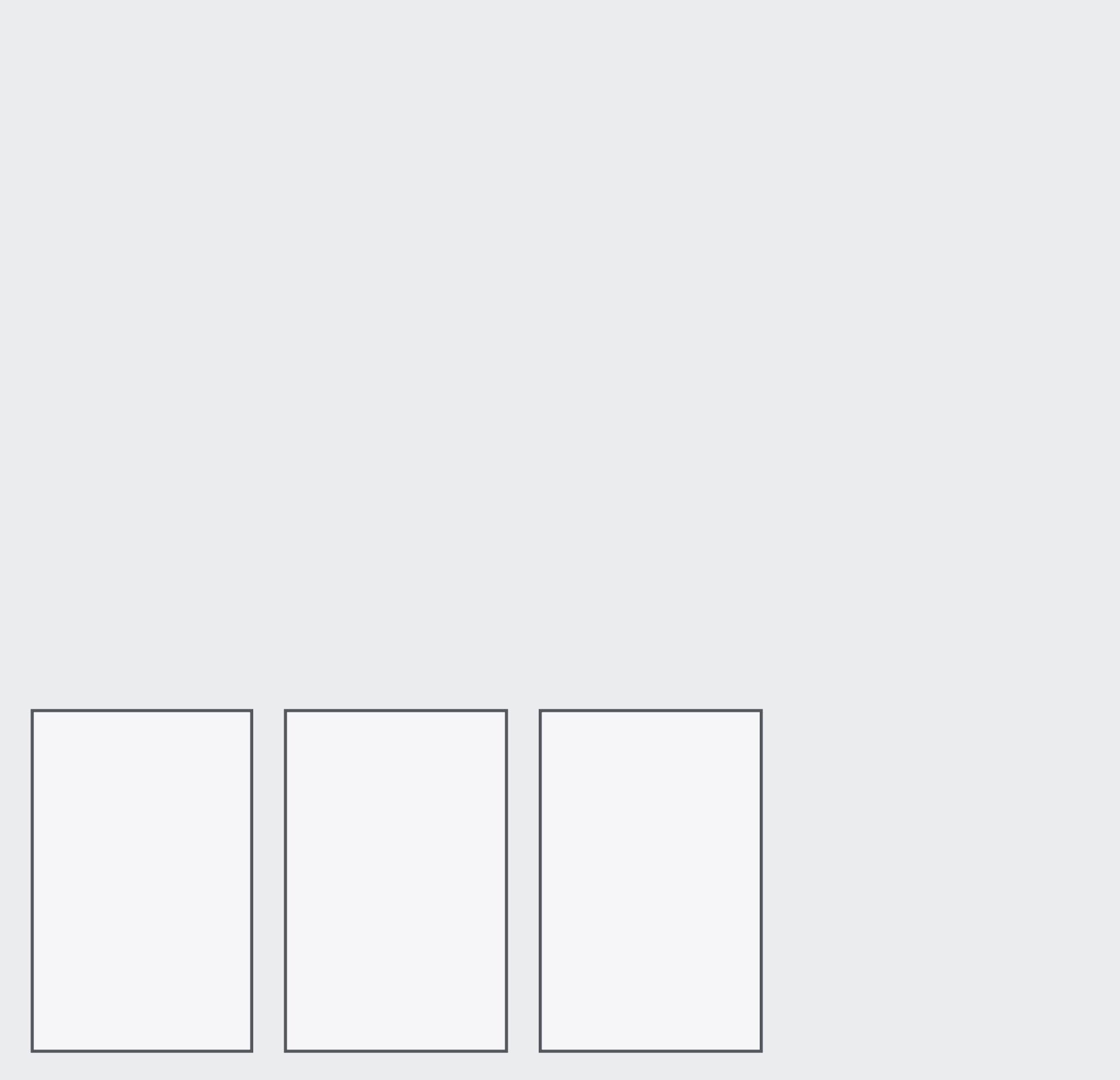
control item layout on **cross axis**



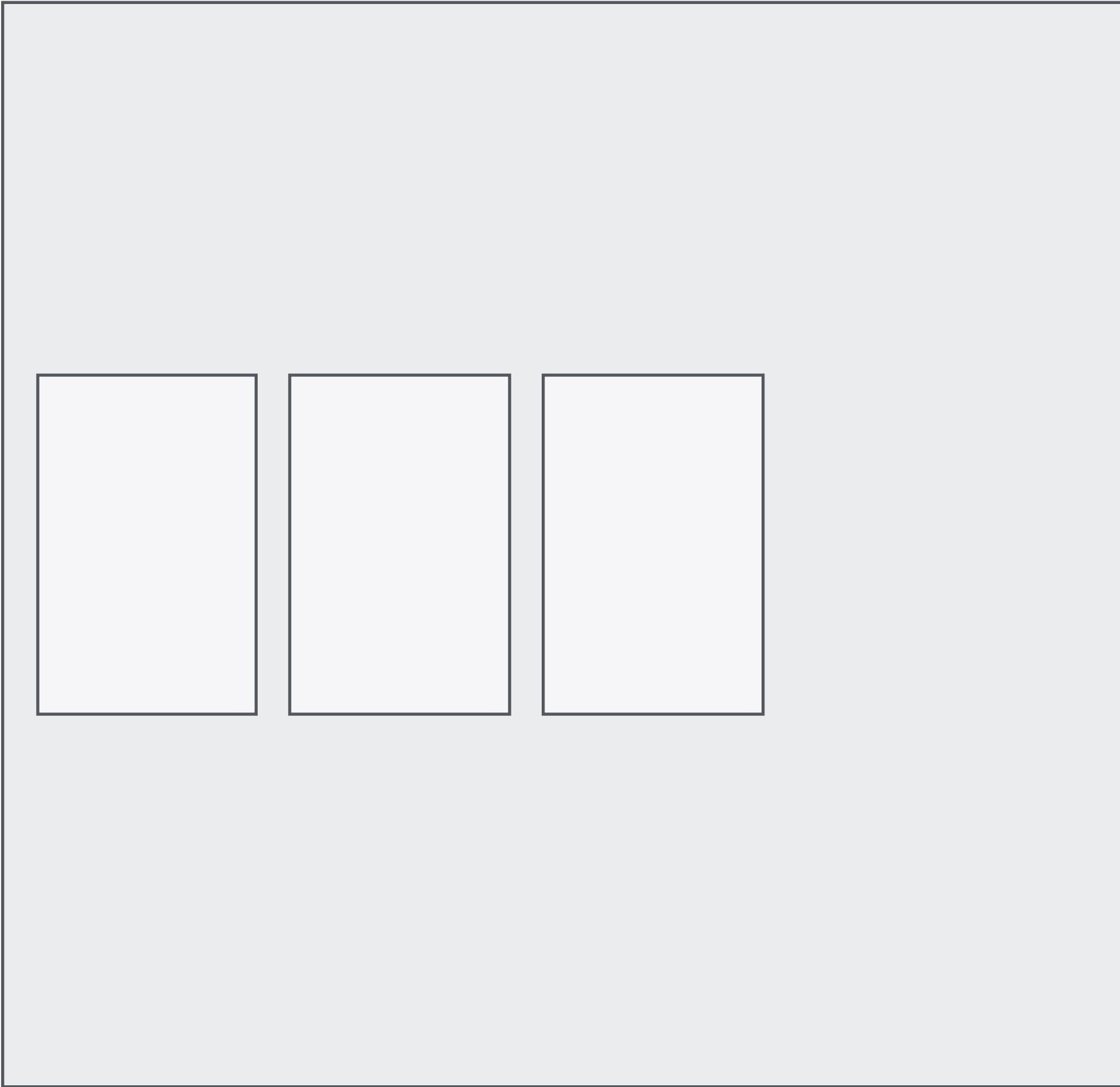
align-items: stretch;



align-items: flex-start;



```
align-items: flex-end;
```



align-items: center;

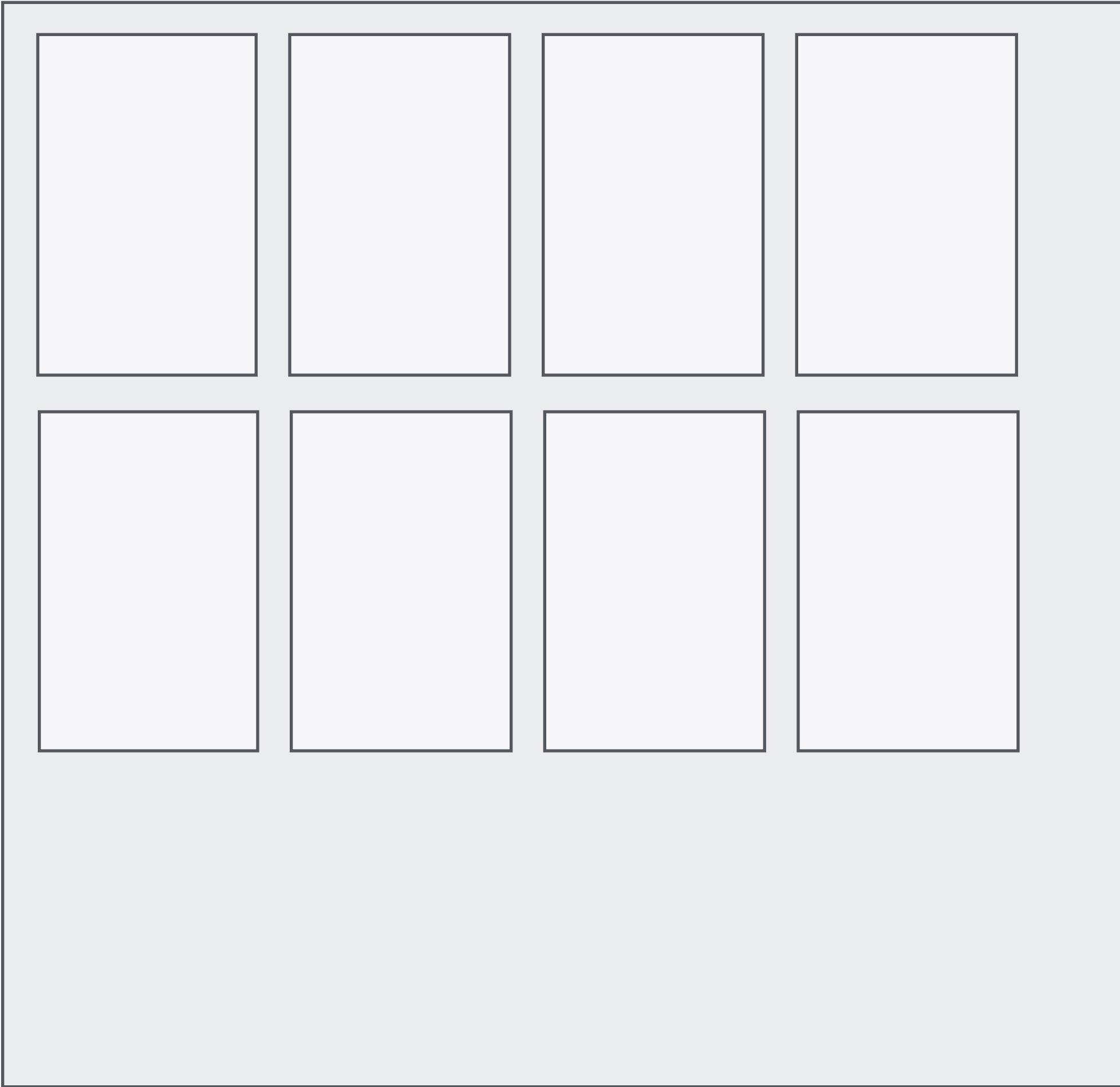
flex container

align-content

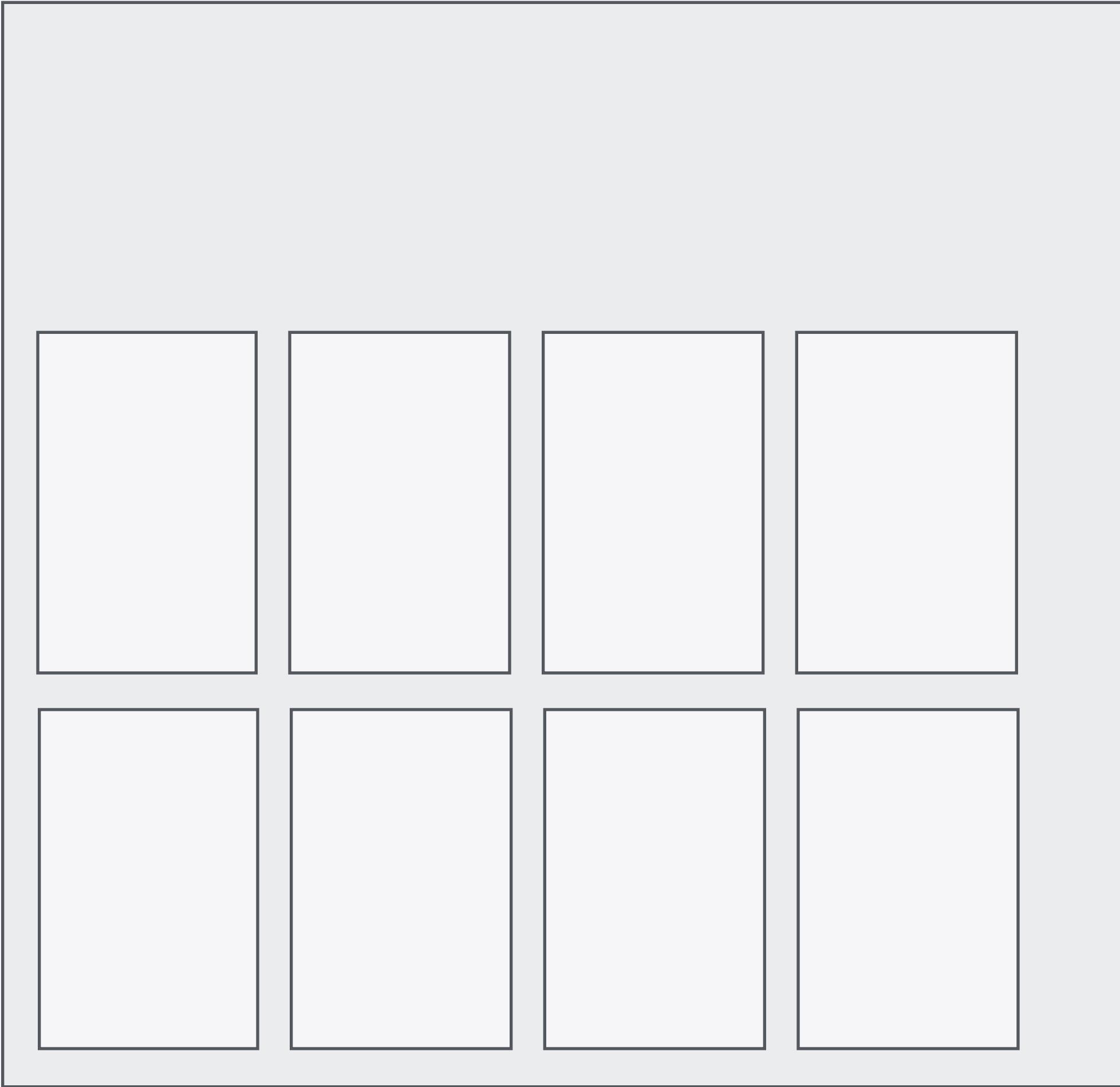
control alignment for multiple lines of items



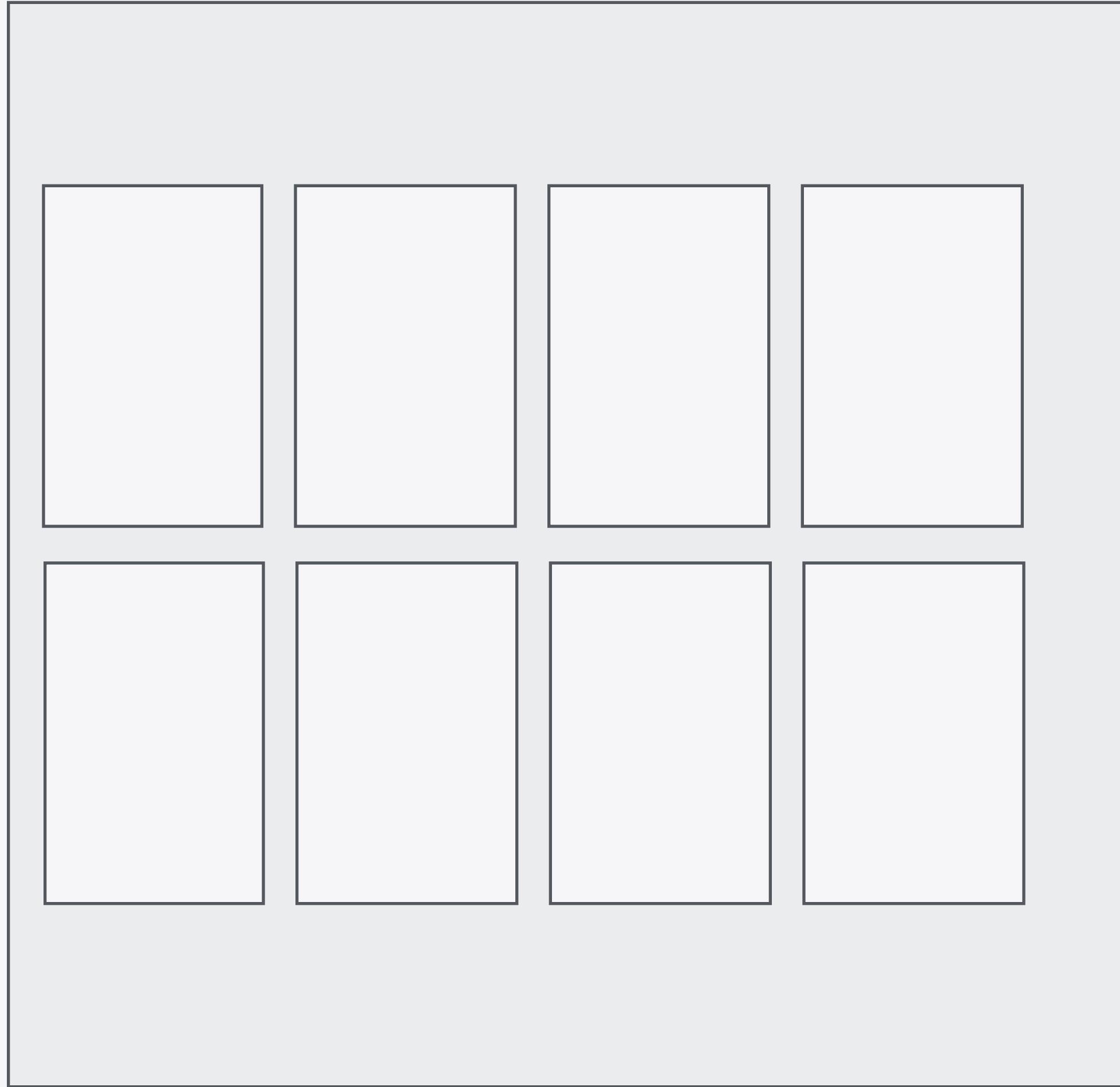
align-content: stretch;



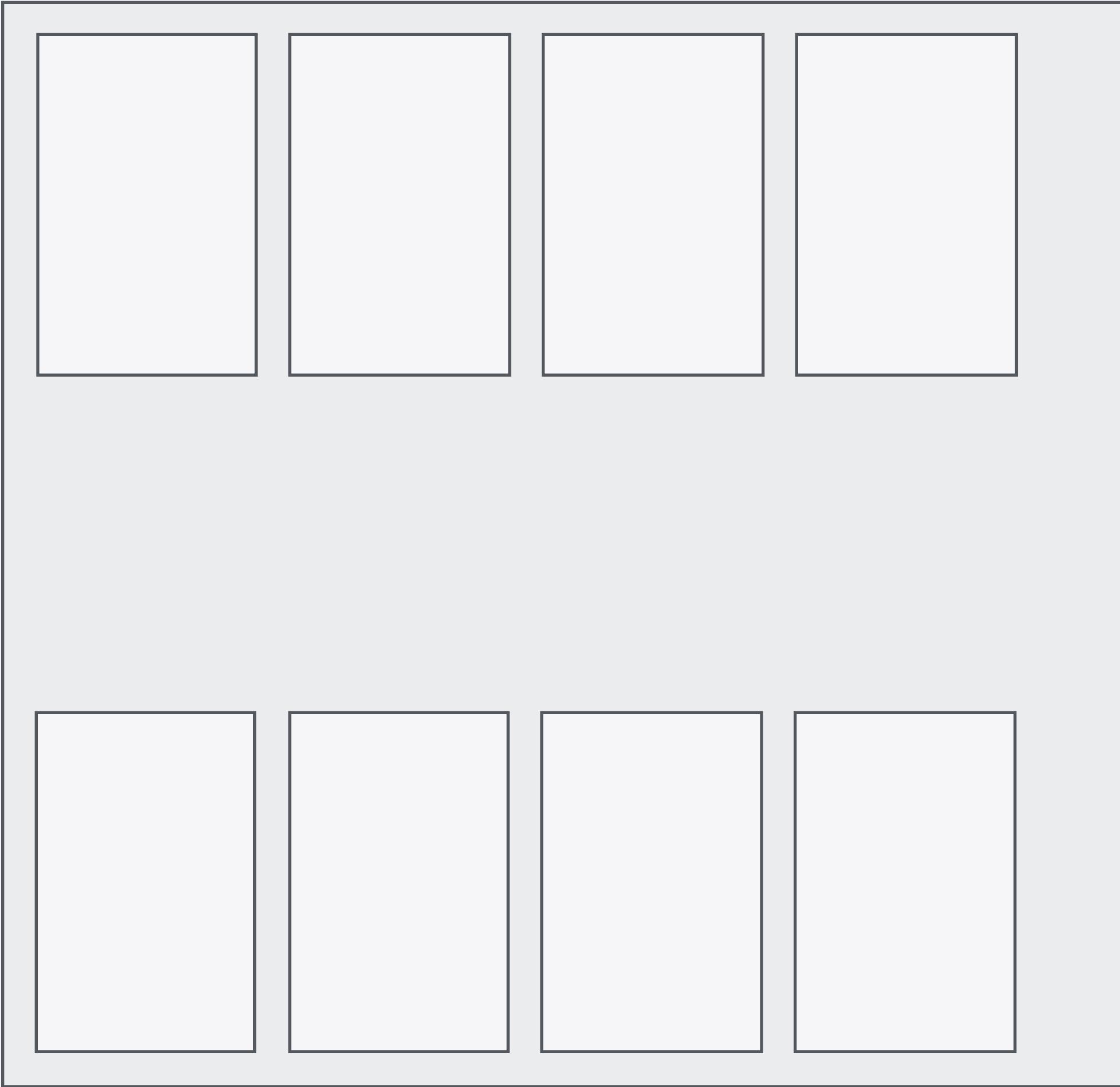
`align-content: flex-start;`



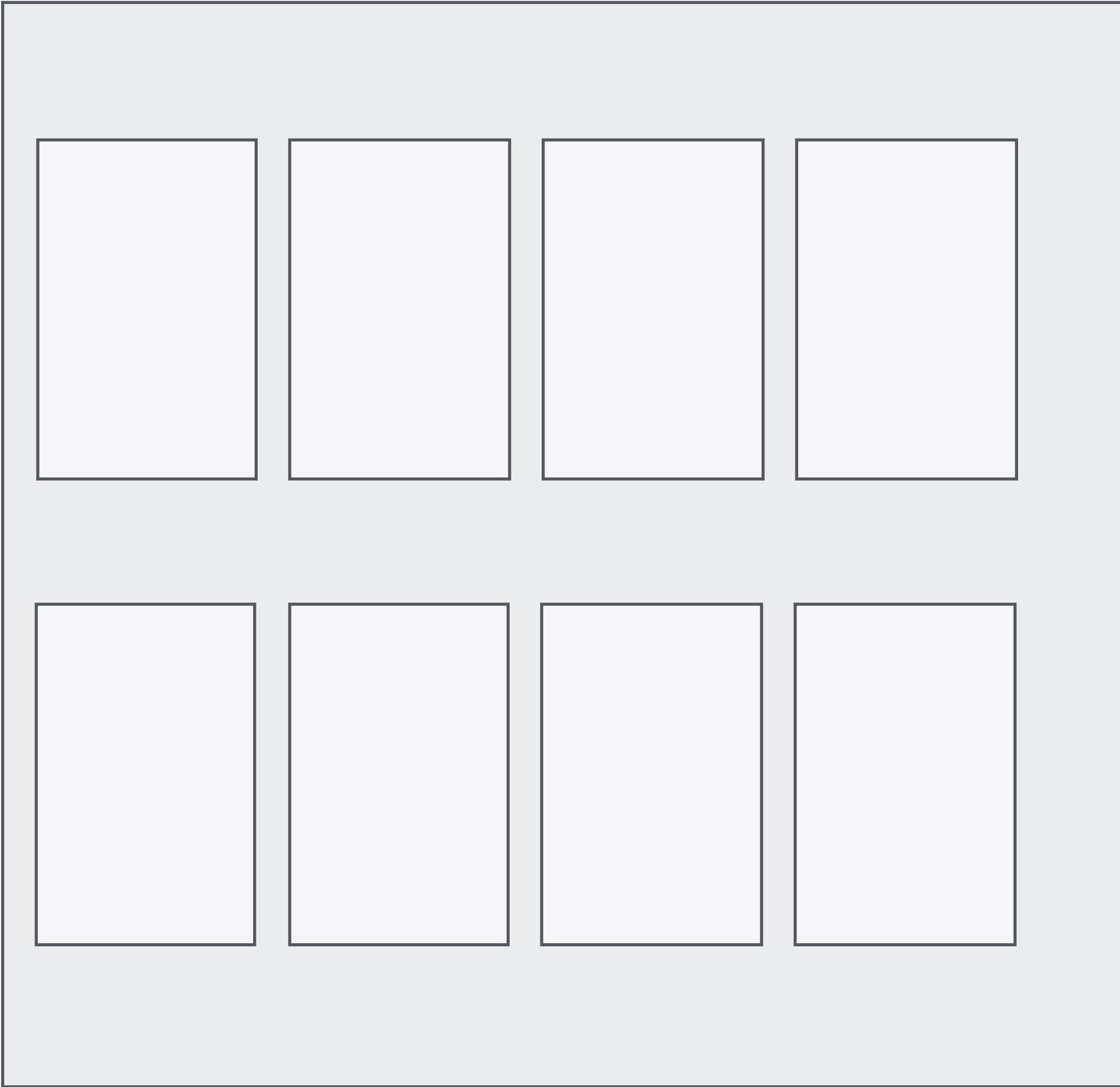
align-content: flex-end;



align-content: center;



align-content: space-between;

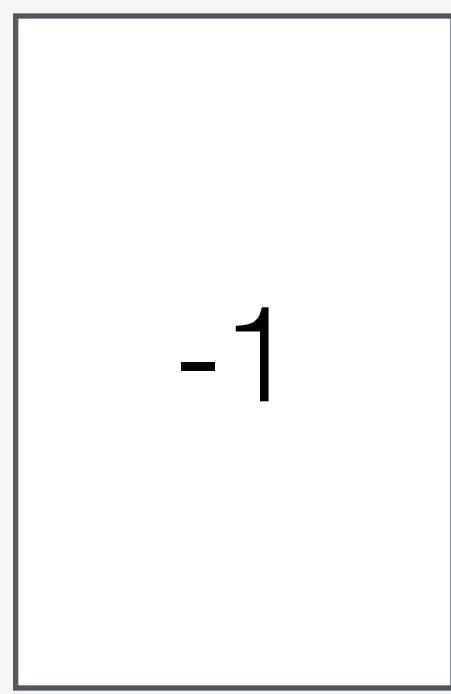


align-content: space-around;

flex item

order

control the sequence of items



-1



1



1



2



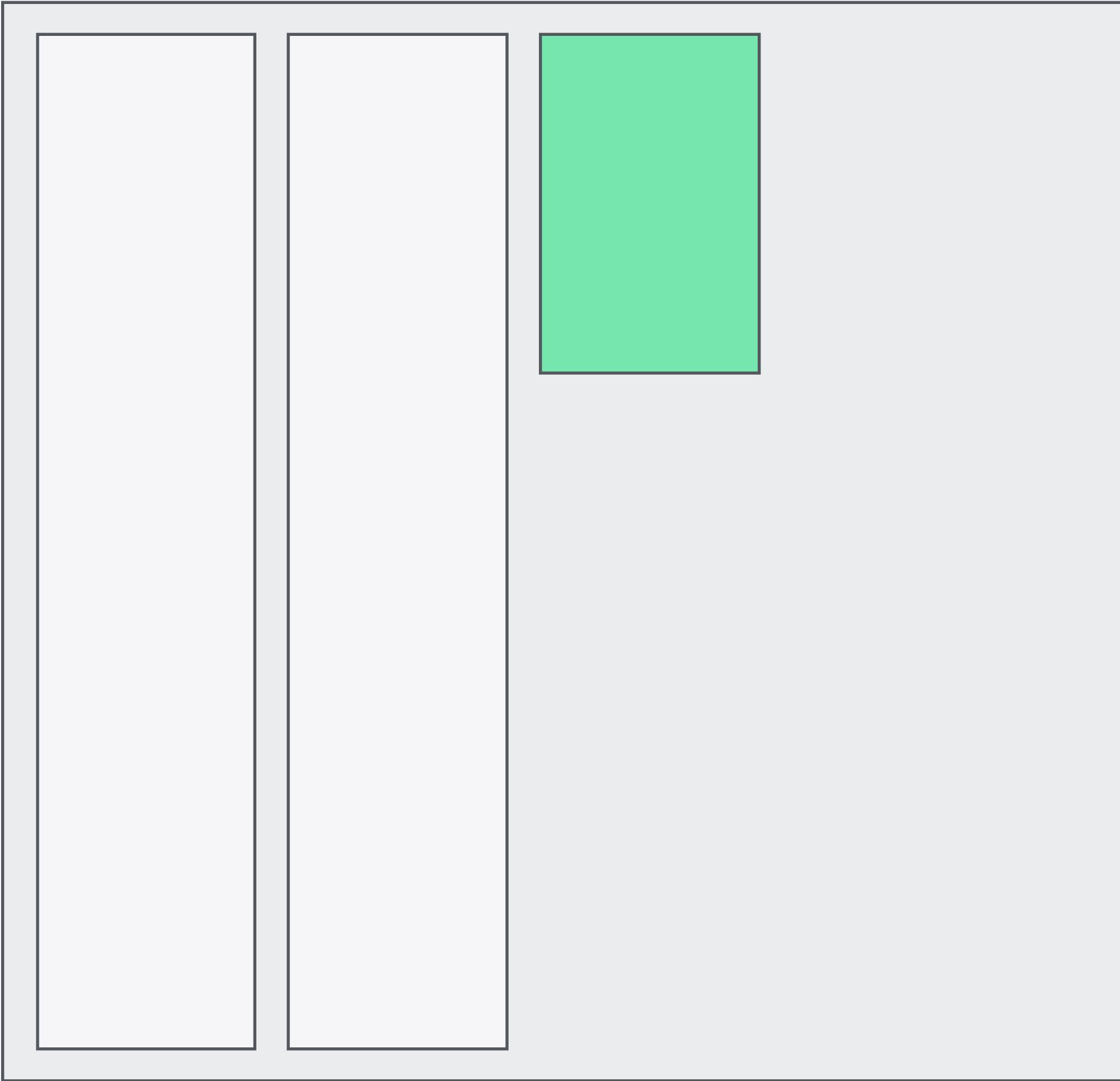
3

order: x;

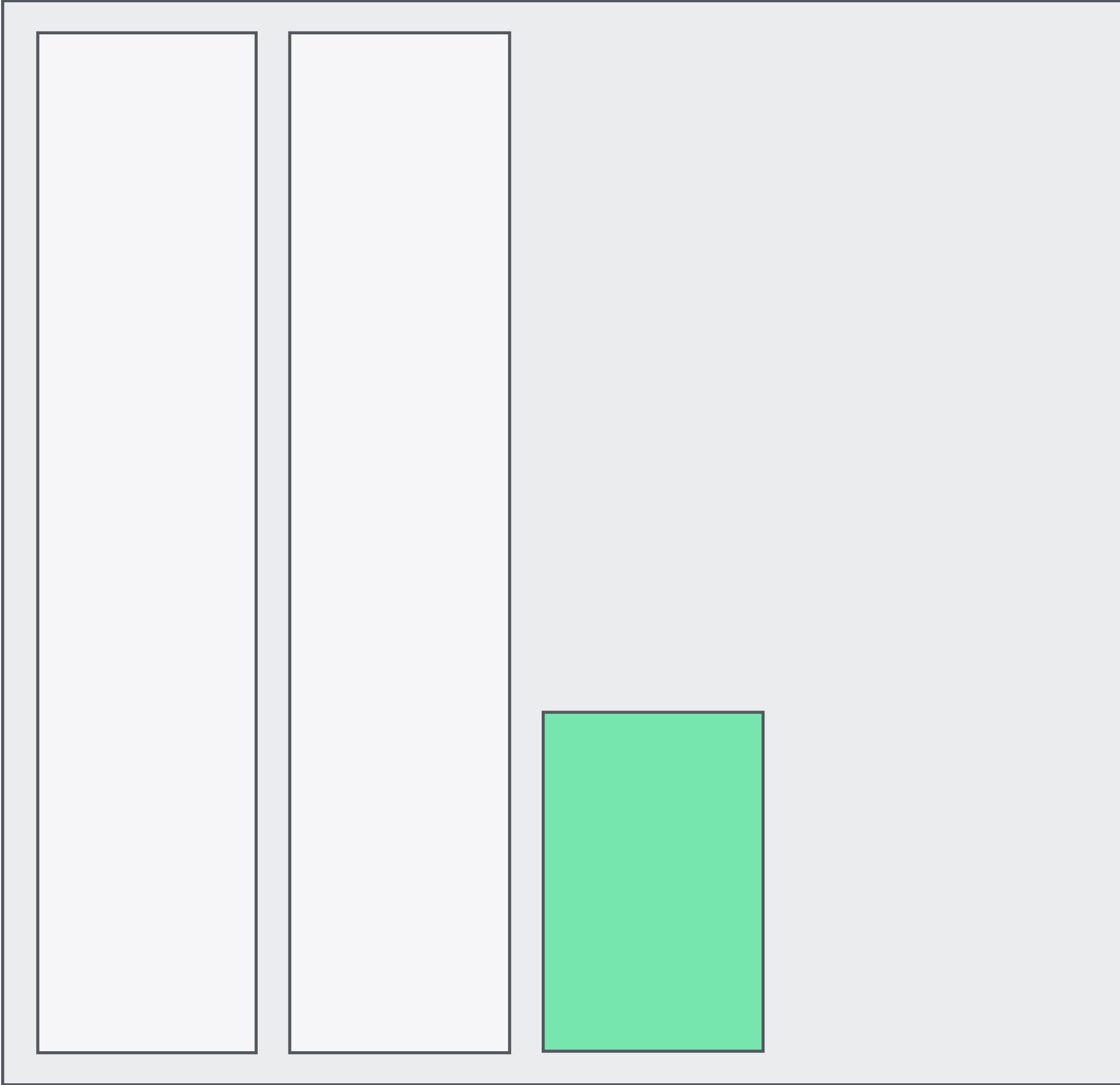
flex item

align-self

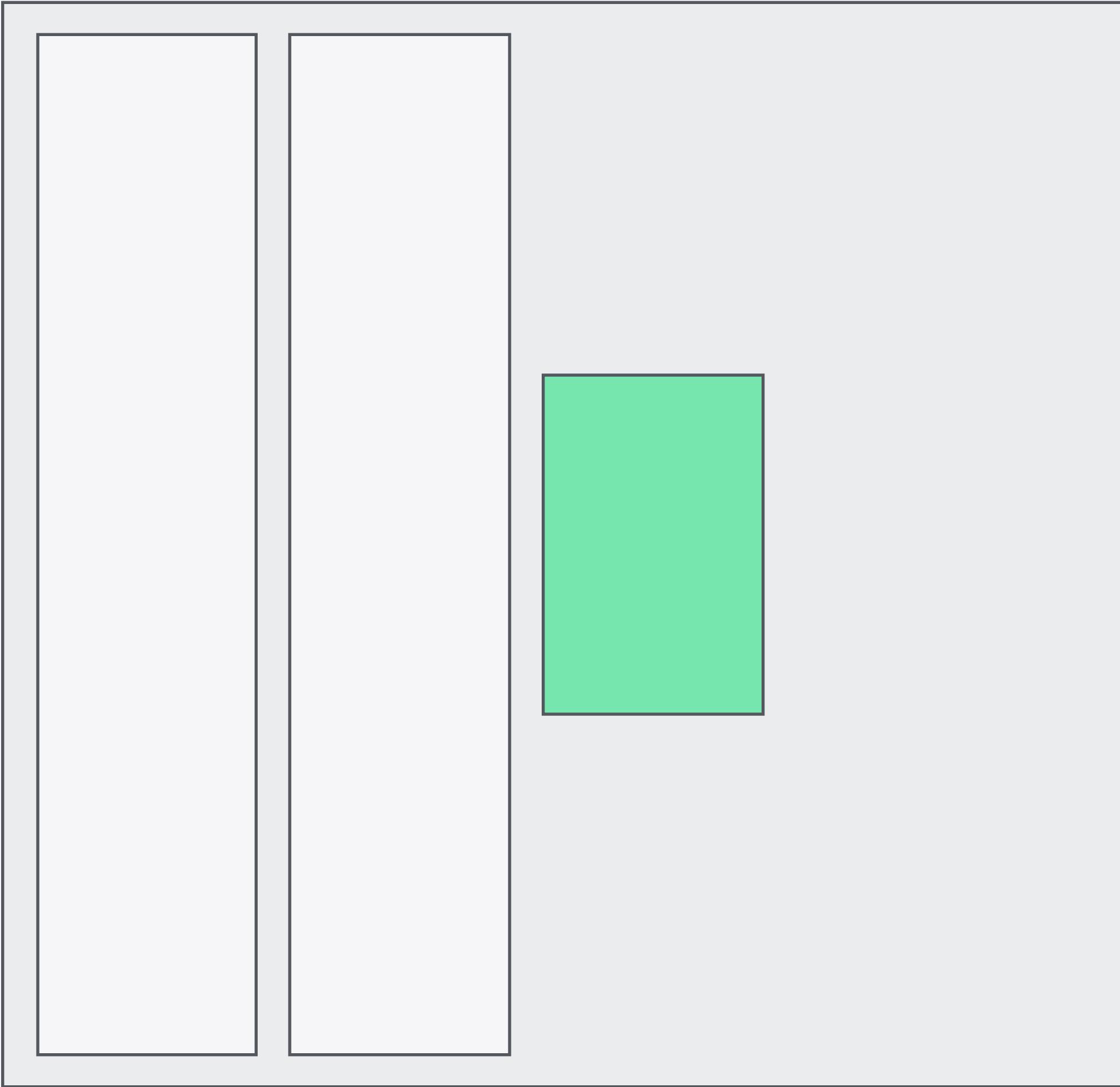
control a single item's alignment



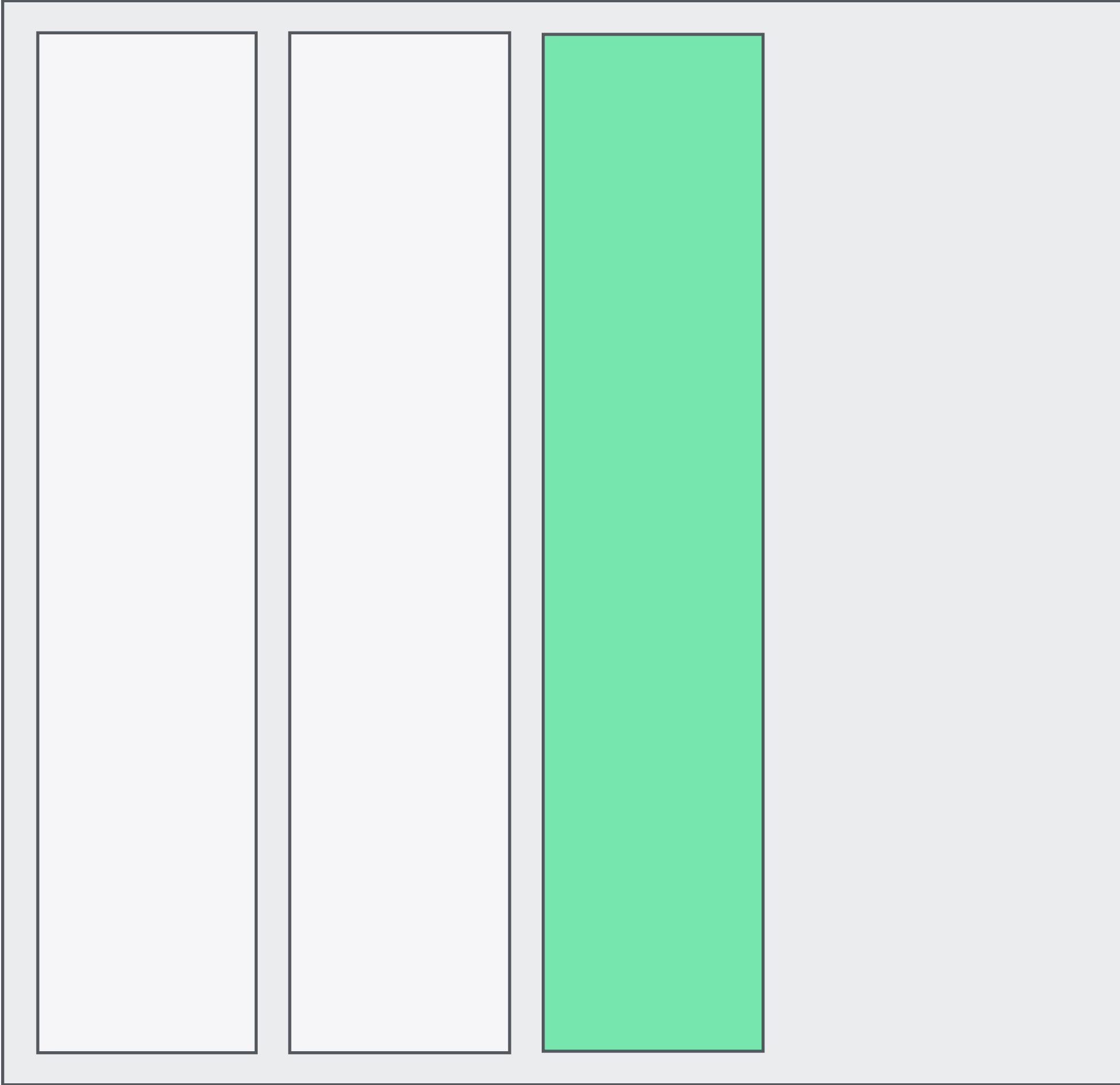
align-self: flex-start;



align-self: flex-end;



align-self: center;

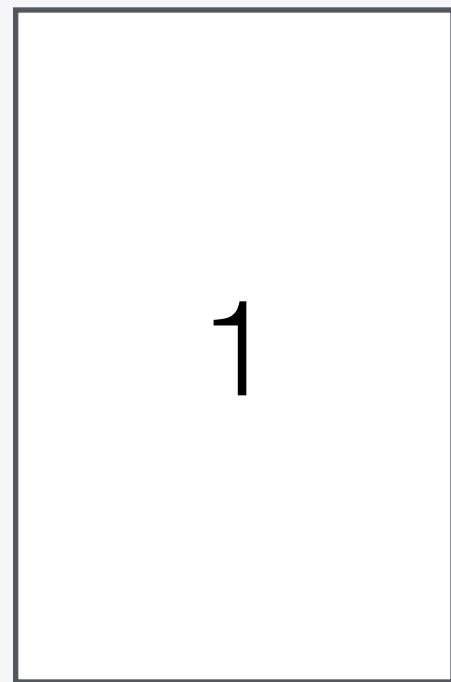


align-self: stretch;

flex item

flex-grow

control an item's ability to grow if necessary



flex-grow: x;

flex item

flex-shrink

control an item's ability to shrink if necessary

flex item

flex-basis

control an item's default size before remaining space is distributed

flex item

flex

short-hand for flex-grow, flex-shrink and flex-basis

flex: <grow> <shrink> <basis>;

```
flex: 1 0 auto;
```

flex: 1;

- <https://css-tricks.com/snippets/css/a-guide-to-flexbox>
- <http://jonibologna.com/content/images/flexboxsheet.pdf>
- What The Flexbox: <http://flexbox.io>

examples

the future looks fantastic

adobe



Bootstrap is the most popular HTML, CSS, and JS framework in the world for building responsive, mobile-first projects on the web.

[Download Bootstrap](#)

Currently v4.0.0-alpha

Easy to get started.

Quickly include Bootstrap's CSS and JS into any project. Use your favorite package manager, download the source, or use the Bootstrap CDN.

mobile apps w/ web views

SO.

“I don’t want to learn
anything new”

emma would be
disappointed

“I manage fine without it”

new tools

new learnings

new potential

new ideas

new boundaries to push

more magic

hopefully more emma

thank-you

**#OneLove
@harismahmood89**