

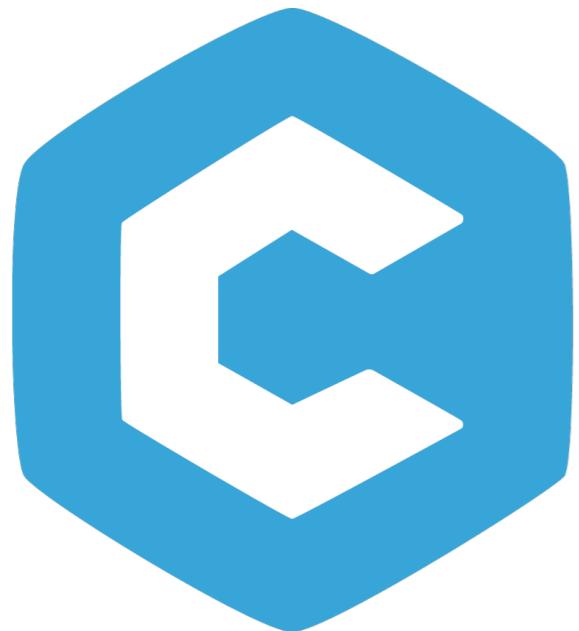
FLEXBOX

*Flex your front-end muscles!
Real world gains with flexbox.*

github.com/ryanhagerty/flexbox

RYAN HAGERTY

Front-End Developer



CHROMATIC

chromatichq.com

A close-up photograph of a pepperoni pizza. The pizza is covered in melted cheese and numerous round pepperoni slices. The crust is visible around the edges. The text is overlaid on the upper portion of the pizza.

@hotpizzas

WHAT
IS'
FLEXBOY?

CSS Flexible Box Layout Module Level 1

W3C Candidate Recommendation, 26 May 2016



This version:

<http://www.w3.org/TR/2016/CR-css-flexbox-1-20160526/>

Latest published version:

<http://www.w3.org/TR/css-flexbox-1/>

Editor's Draft:

<https://drafts.csswg.org/css-flexbox/>

Previous Versions:

<http://www.w3.org/TR/2016/CR-css-flexbox-1-20160301/>

<http://www.w3.org/TR/2015/WD-css-flexbox-1-20150514/>

<http://www.w3.org/TR/2014/WD-css-flexbox-1-20140925/>

<http://www.w3.org/TR/2014/WD-css-flexbox-1-20140325/>

<http://www.w3.org/TR/2012/CR-css3-flexbox-20120918/>

<http://www.w3.org/TR/2012/WD-css3-flexbox-20120612/>

<http://www.w3.org/TR/2012/WD-css3-flexbox-20120322/>

<http://www.w3.org/TR/2011/WD-css3-flexbox-20111129/>

<http://www.w3.org/TR/2011/WD-css3-flexbox-20110322/>

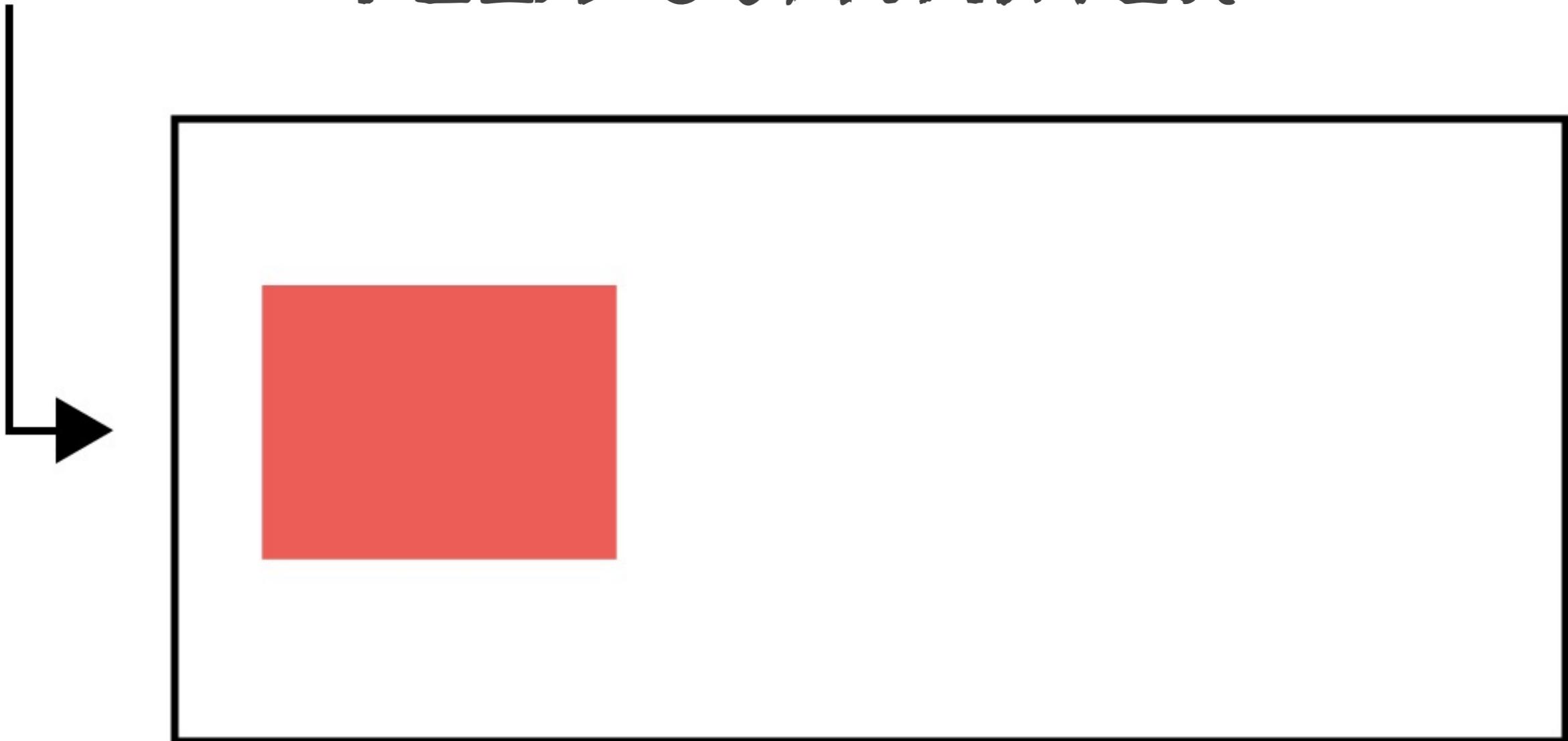
<http://www.w3.org/TR/2009/WD-css3-flexbox-20090723/>

Feedback:

www-style@w3.org with subject line “[css-flexbox] ... message topic ...” ([archives](#))

[w3.org/TR/css-flexbox-1/](http://www.w3.org/TR/css-flexbox-1/)

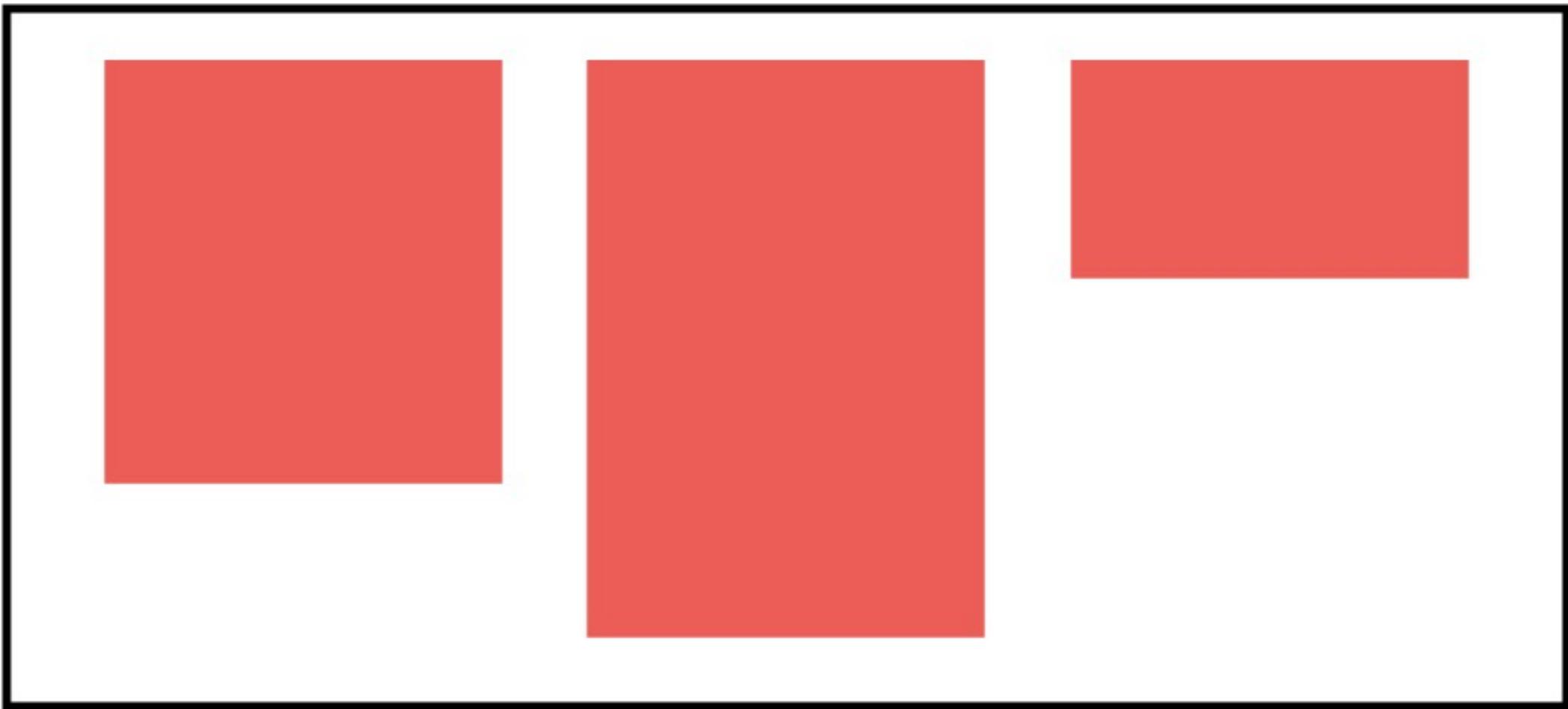
FLEX CONTAINER



FLEX CONTAINER



CONTENT DETERMINES LAYOUT



SPACE



DISTRIBUTION!

*WHAT DOES THIS
MEAN?*

UNLIMITED



POWER!

~~FIXED HEIGHT/WIDTHS~~

~~FIXED HEIGHT/WIDTHS~~

~~AWKWARD FLOATS~~

~~FIXED HEIGHT/WIDTHS~~

~~AWKWARD FLOATS~~

~~NEGATIVE MARGINS~~

~~FIXED HEIGHT/WIDTHS~~

~~AWKWARD FLOATS~~

~~NEGATIVE MARGINS~~

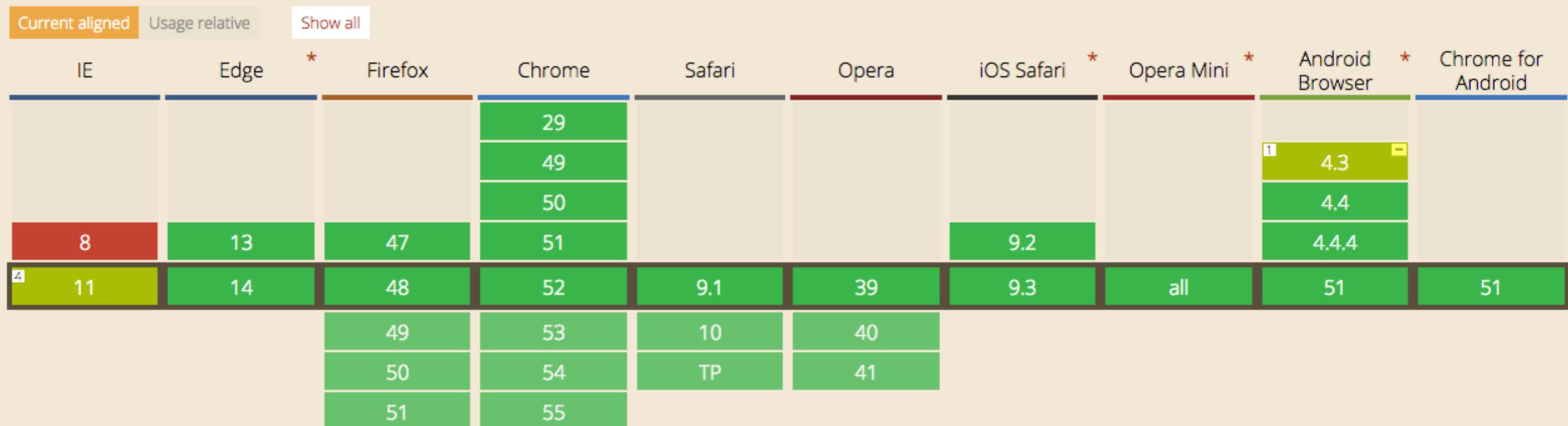
~~NESTED ABSOLUTE POSITIONING~~



thegadzooks.tumblr.com

BUT CAN I USE IT?

BROWSER SUPPORT



caniuse.com

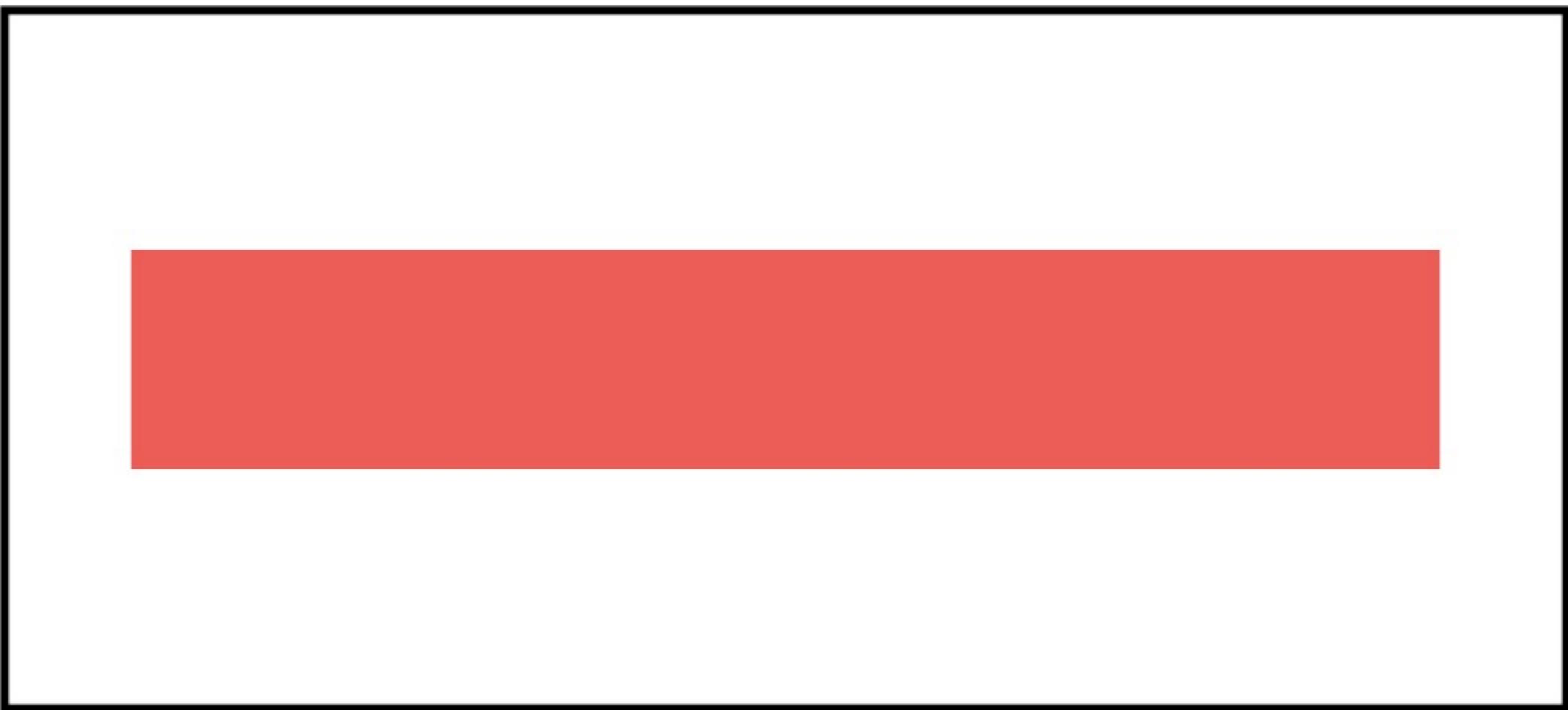
IE POLYFILL!

github.com/jonathantneal/flexibility

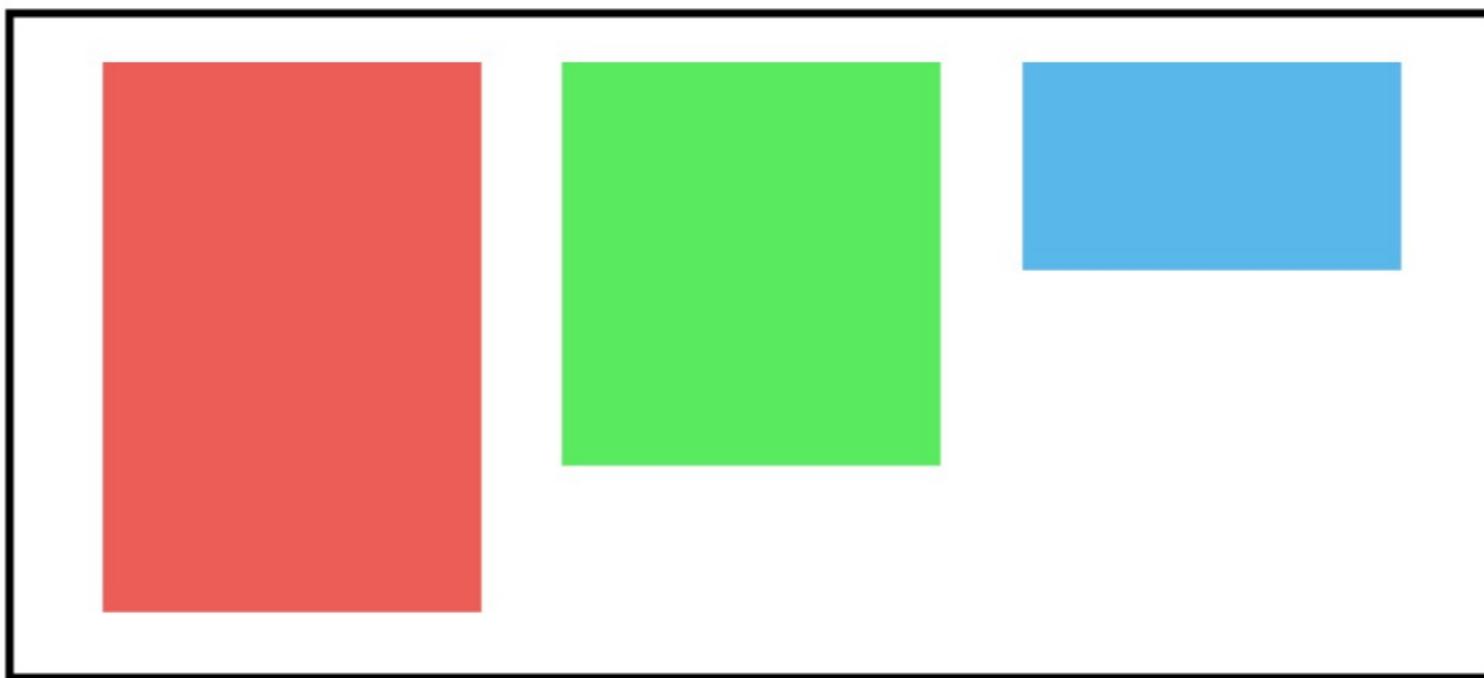
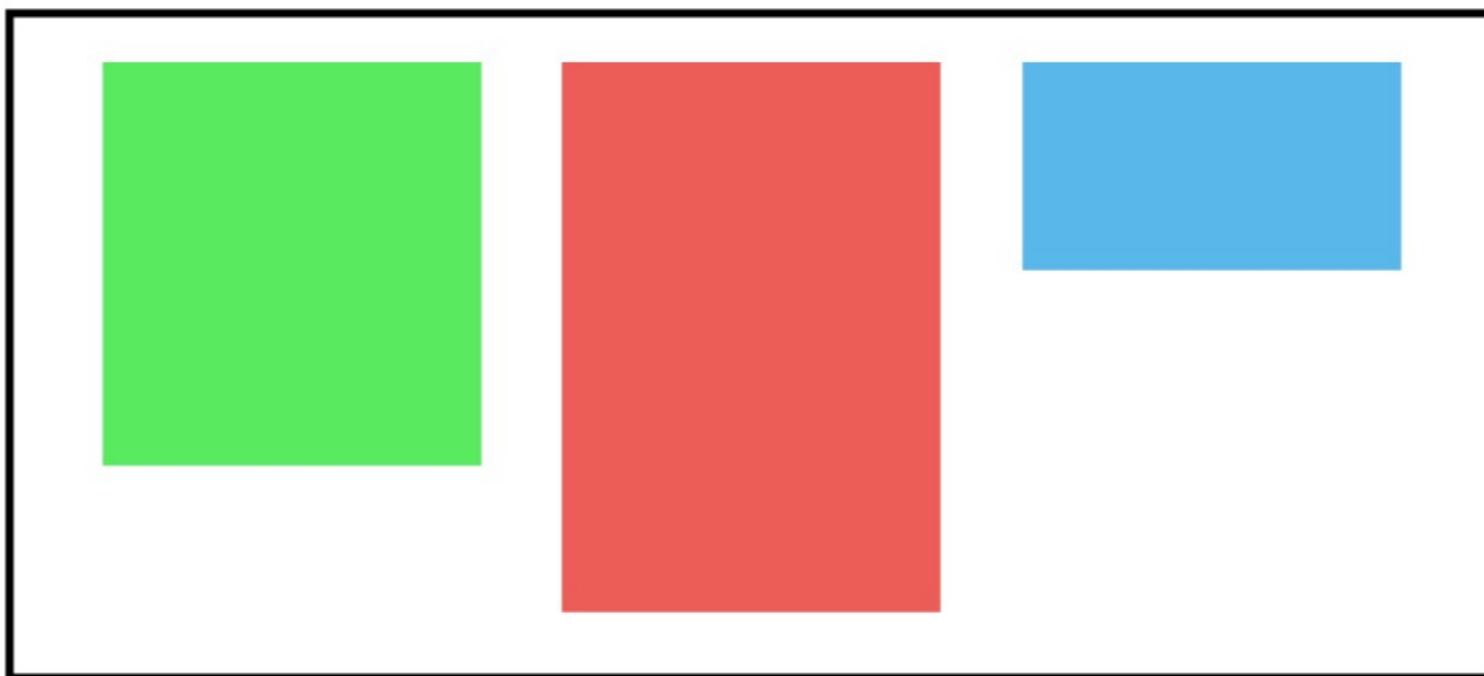


SHOW ME THE GOODS

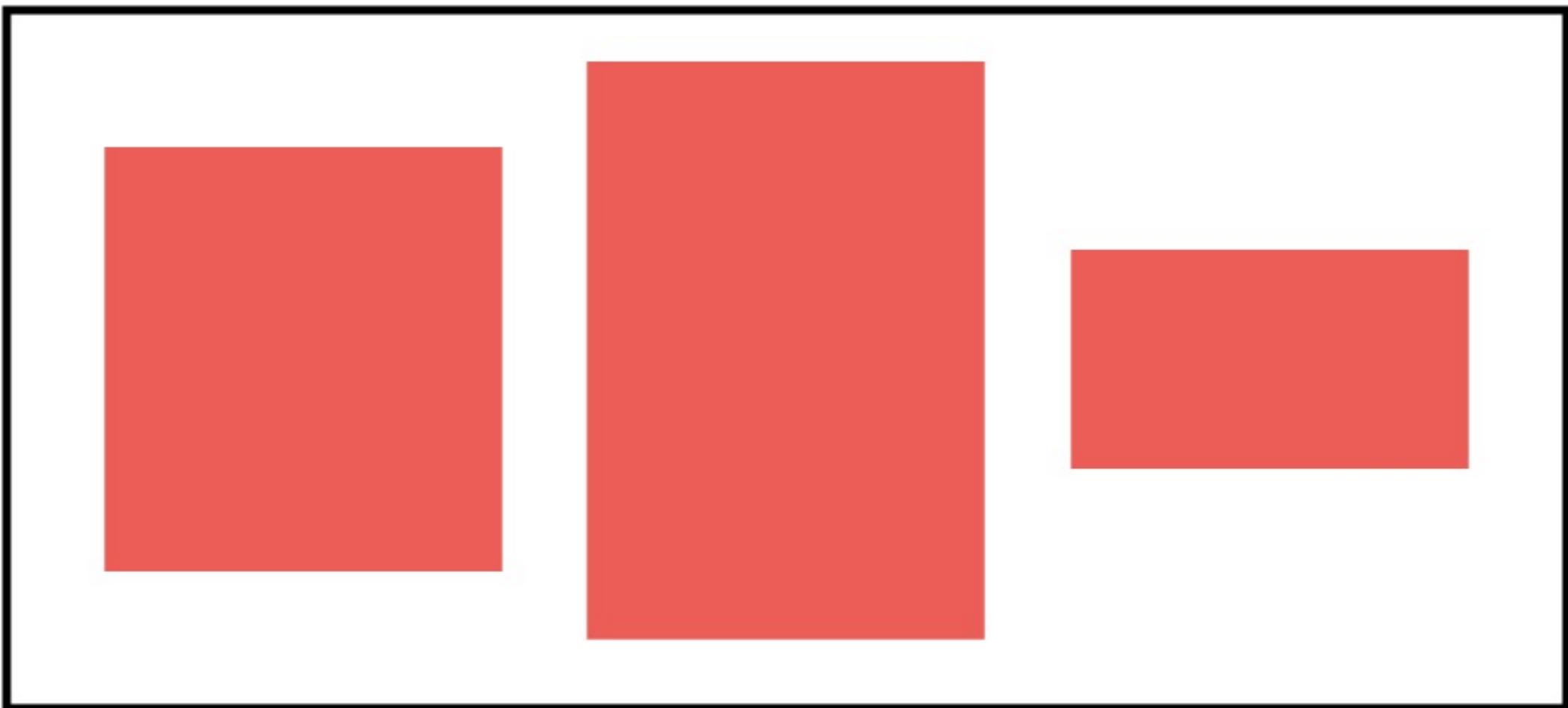
VERTICAL CENTERING



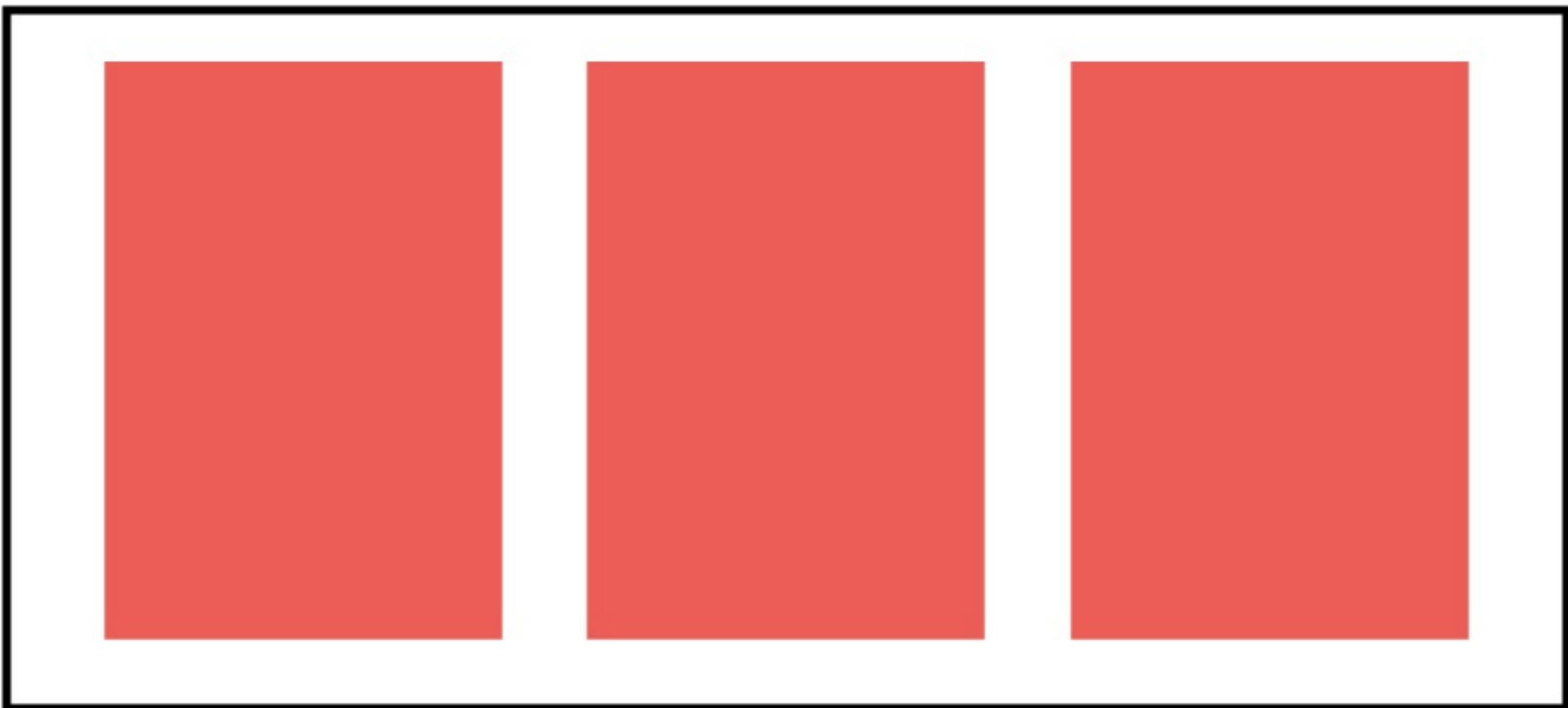
ELEMENT ORDERING



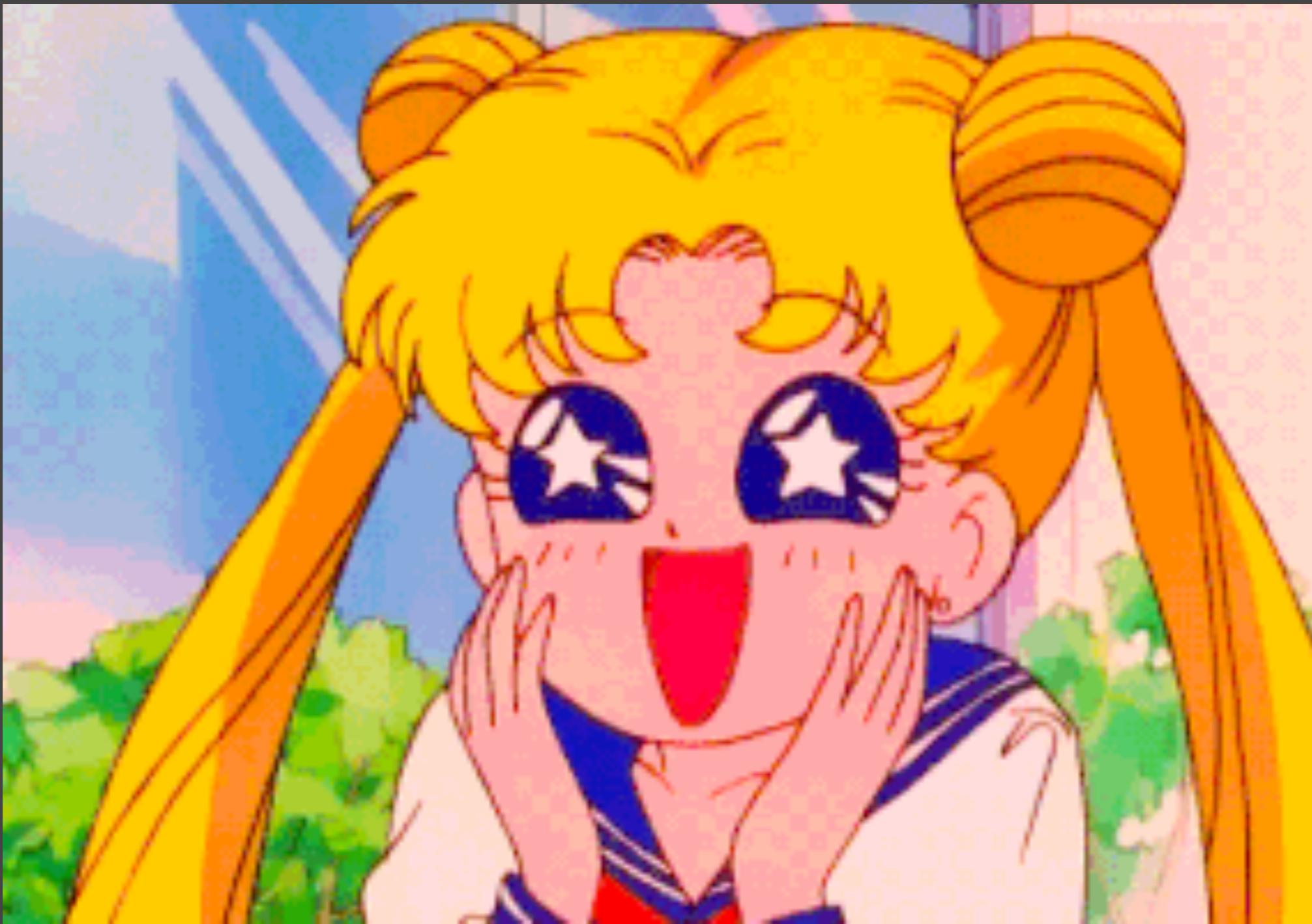
CONTENT ALIGNMENT



*CONSISTENT COLUMNS**

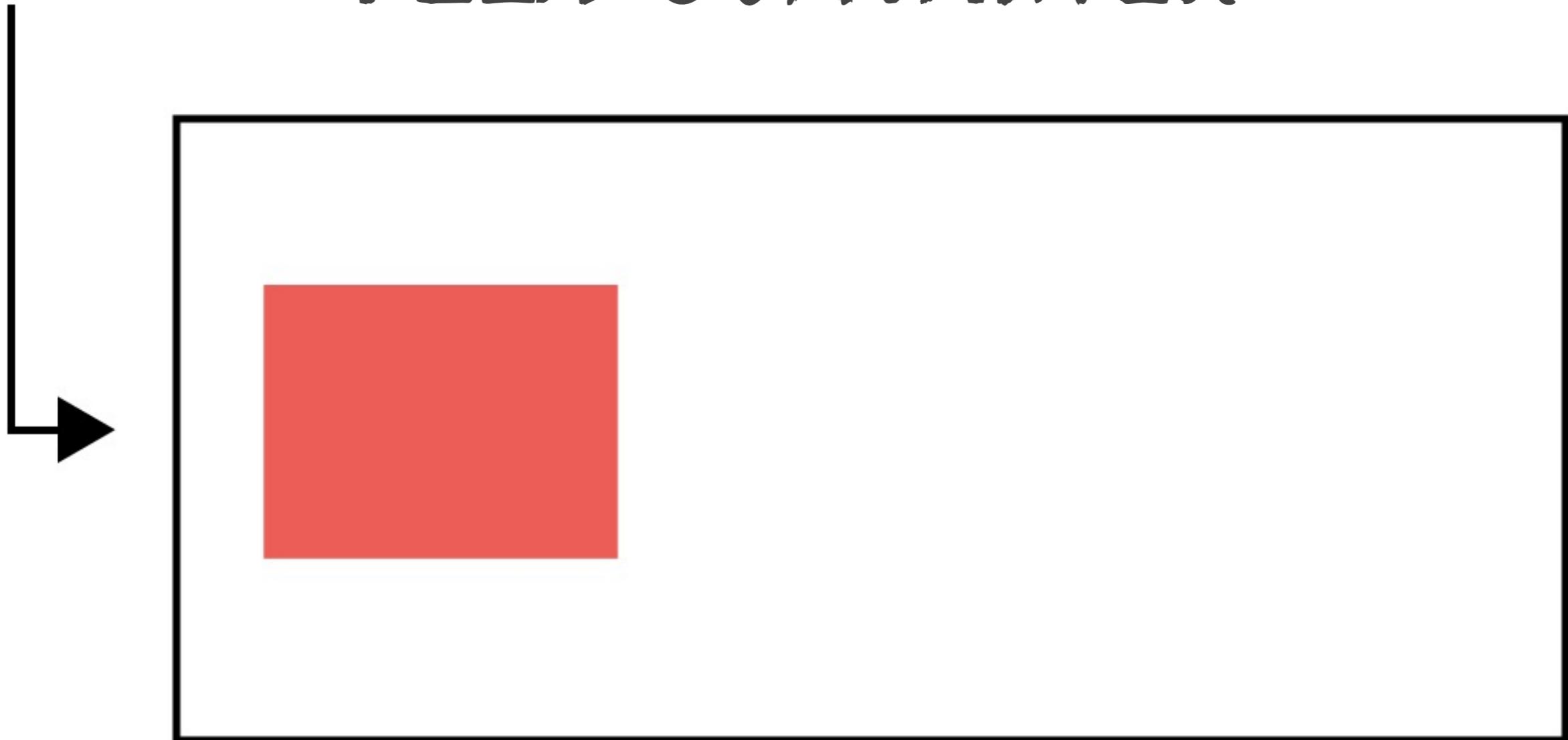


AND MORE!



FLEXBOX BASICS

FLEX CONTAINER



FLEX CONTAINER



```
22  
23 .flex-container {  
24   display: flex;  
25 }  
26
```

```
22  
23 .flex-container {  
24   display: inline-flex;  
25 }  
26
```

FLEX CONTAINER

ALIGN-ITEMS:

FLEX CONTAINER

ALIGN-ITEMS:

ALIGN-CONTENT:

FLEX CONTAINER

ALIGN-ITEMS:

ALIGN-CONTENT:

JUSTIFY-CONTENT:

FLEX CONTAINER

ALIGN-ITEMS:

ALIGN-CONTENT:

JUSTIFY-CONTENT:

FLEX-DIRECTION:

FLEX CONTAINER

ALIGN-ITEMS:

ALIGN-CONTENT:

JUSTIFY-CONTENT:

FLEX-DIRECTION:

FLEX-WRAP:

ALIGN ITEMS

ALIGN ITEMS

```
22  
23 .flex-container {  
24   align-items: flex-start;  
25 }  
26
```



ALIGN ITEMS

```
22  
23 .flex-container {  
24   align-items: flex-end;  
25 }  
26
```



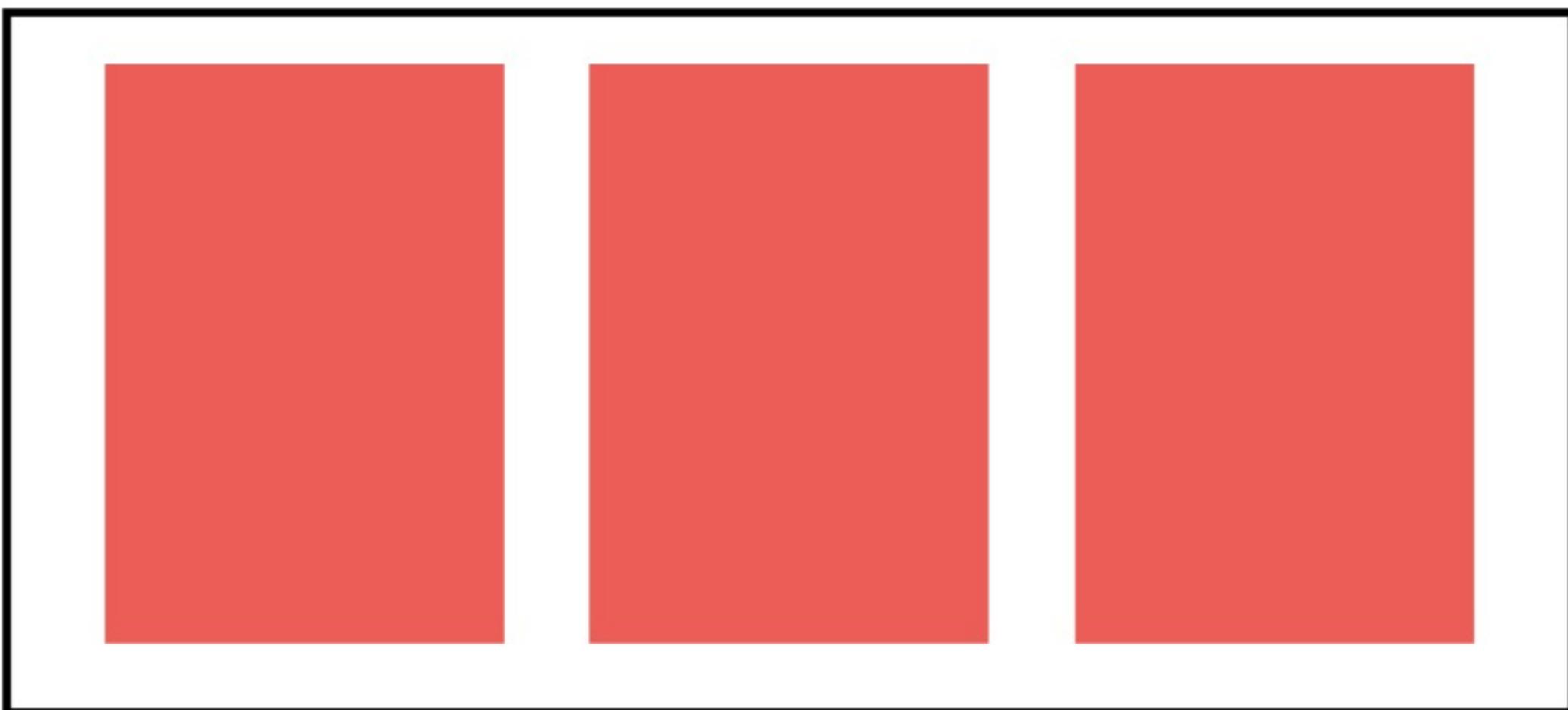
ALIGN ITEMS

```
22  
23 .flex-container {  
24   align-items: center;  
25 }  
26
```



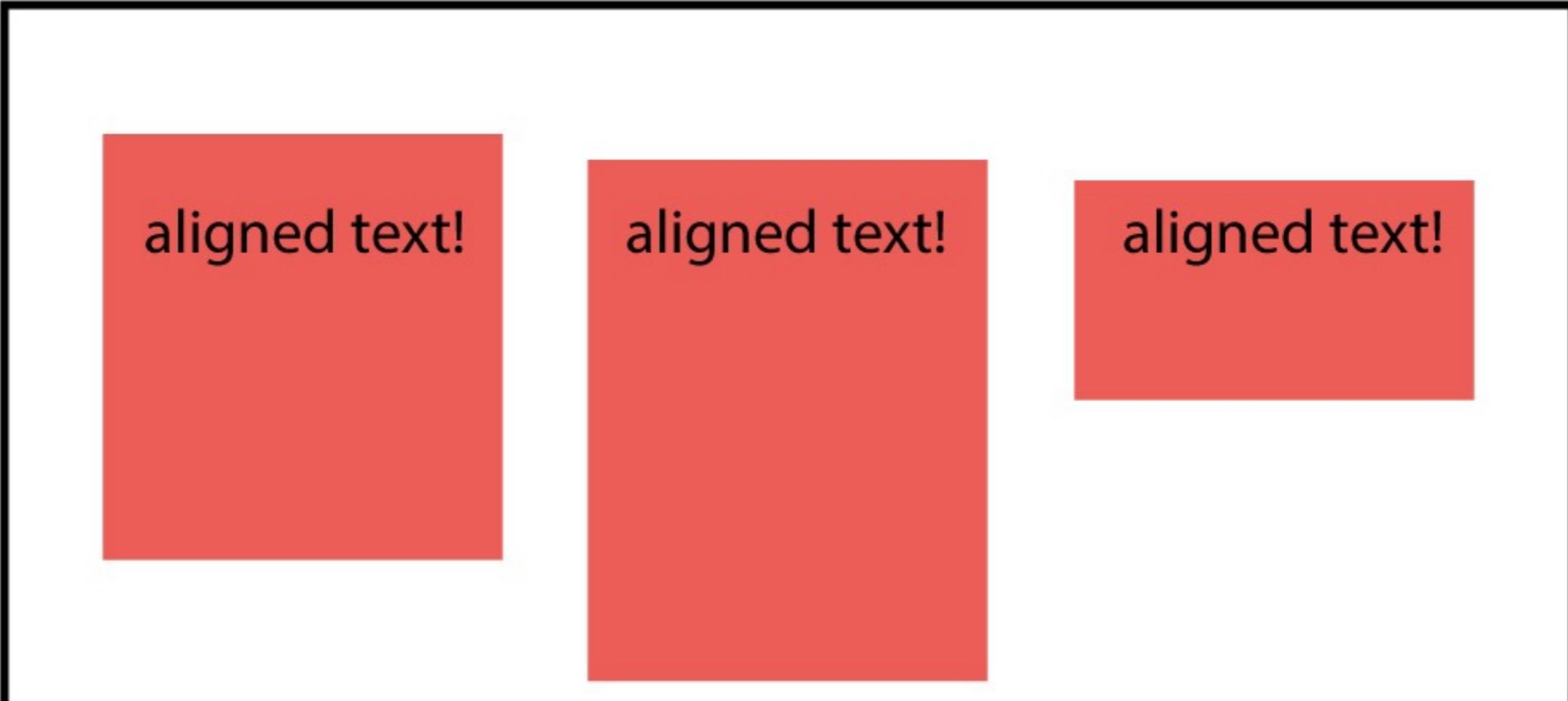
ALIGN ITEMS

```
22  
23 .flex-container {  
24   align-items: stretch;  
25 }  
26
```



ALIGN ITEMS

```
22  
23 .flex-container {  
24   align-items: baseline;  
25 }  
26
```



aligned text!

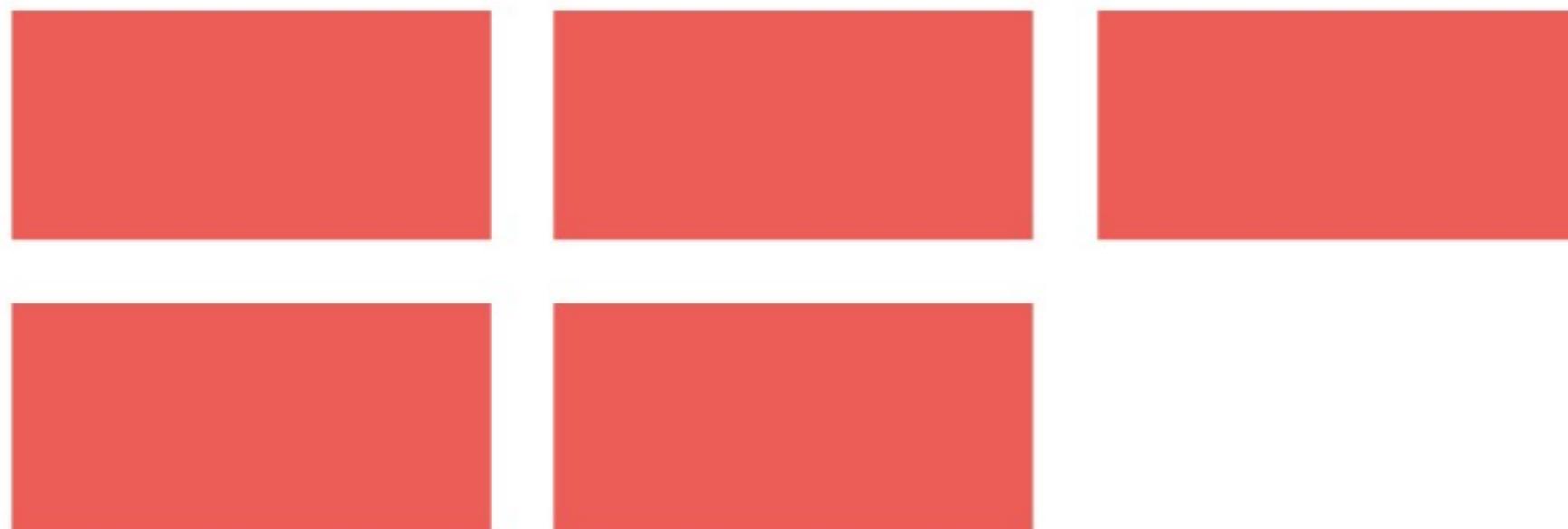
aligned text!

aligned text!

ALIGN CONTENT

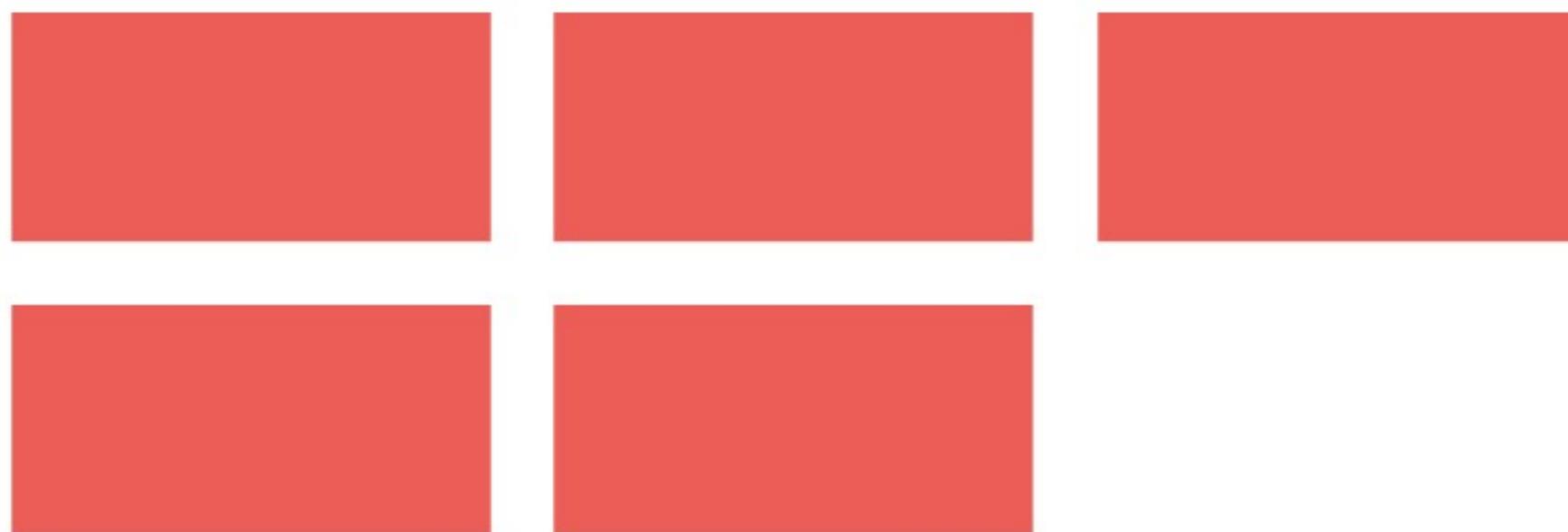
ALIGN CONTENT

```
22  
23 .flex-container {  
24   align-content: flex-start;  
25 }  
26
```



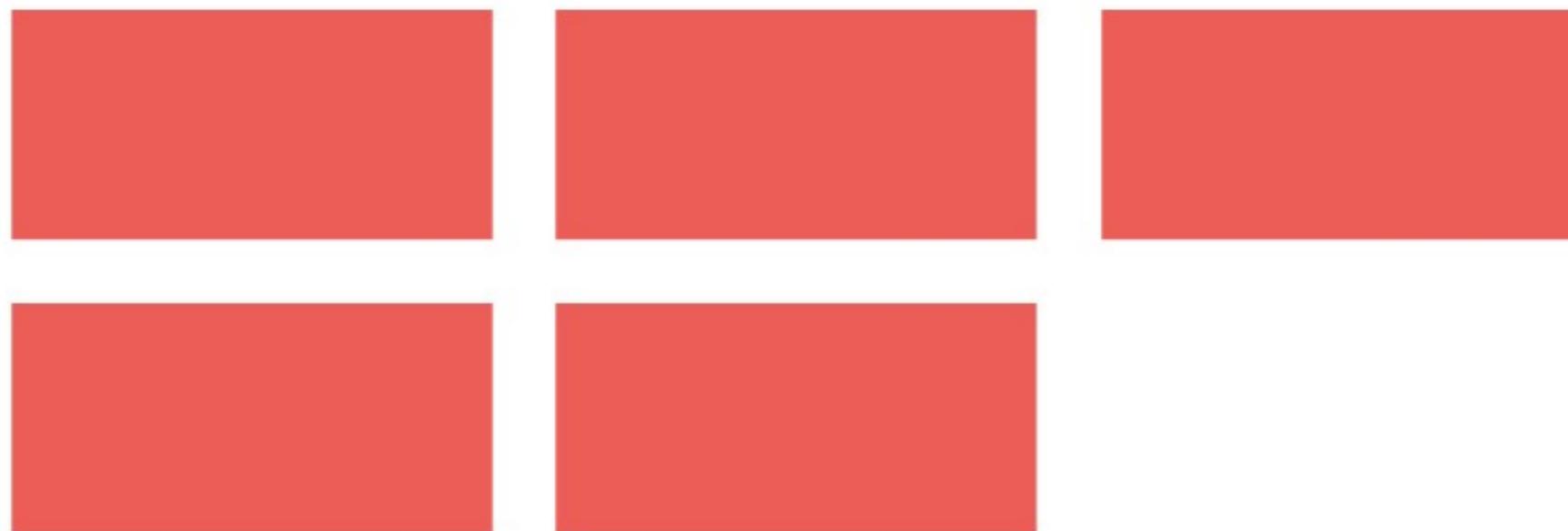
ALIGN CONTENT

```
22  
23 .flex-container {  
24   align-content: flex-end;  
25 }  
26
```



ALIGN CONTENT

```
22  
23 .flex-container {  
24   align-content: center;  
25 }  
26
```



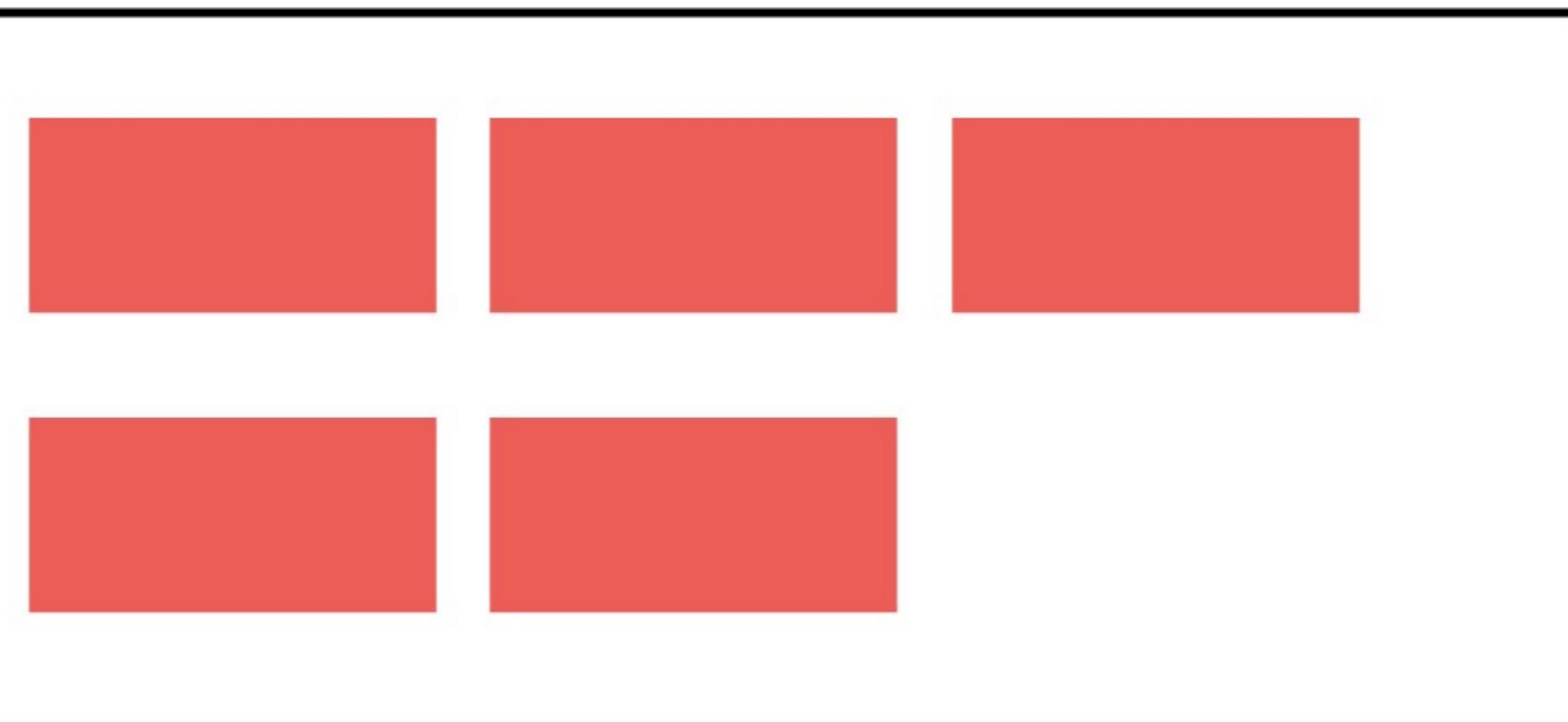
ALIGN CONTENT

```
22  
23 .flex-container {  
24   align-content: space-between;  
25 }  
26
```



ALIGN CONTENT

```
2  
3 .flex-container {  
4   align-content: space-around;  
5 }  
6
```



ALIGN CONTENT

```
22  
23 .flex-container {  
24   align-content: stretch;  
25 }  
26
```



JUSTIFY CONTENT

JUSTIFY CONTENT

```
22  
23 .flex-container {  
24   justify-content: flex-start;  
25 }  
26
```



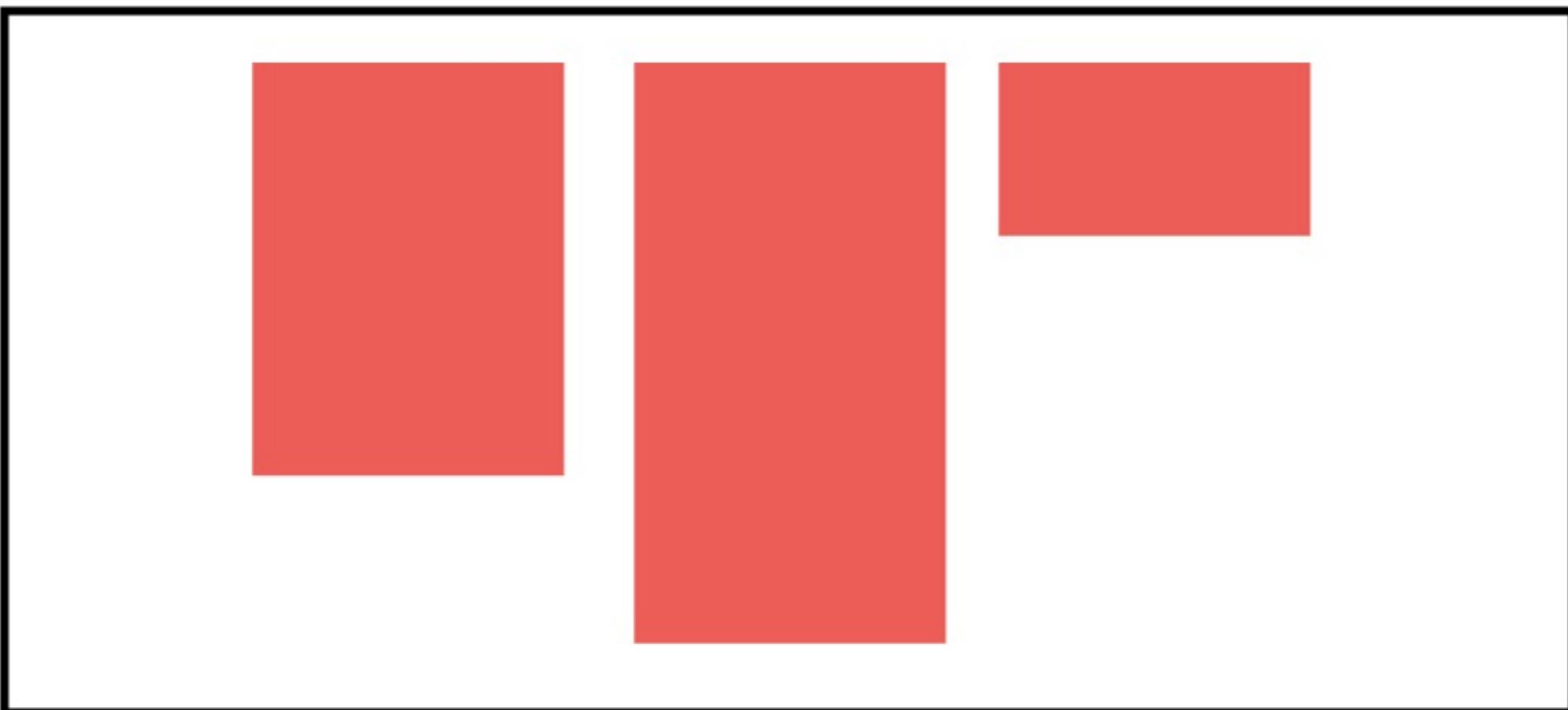
JUSTIFY CONTENT

```
22  
23 .flex-container {  
24   justify-content: flex-end;  
25 }  
26
```



JUSTIFY CONTENT

```
22  
23 .flex-container {  
24   justify-content: center;  
25 }  
26
```



JUSTIFY CONTENT

```
22  
23 .flex-container {  
24   justify-content: space-between;  
25 }  
26
```



JUSTIFY CONTENT

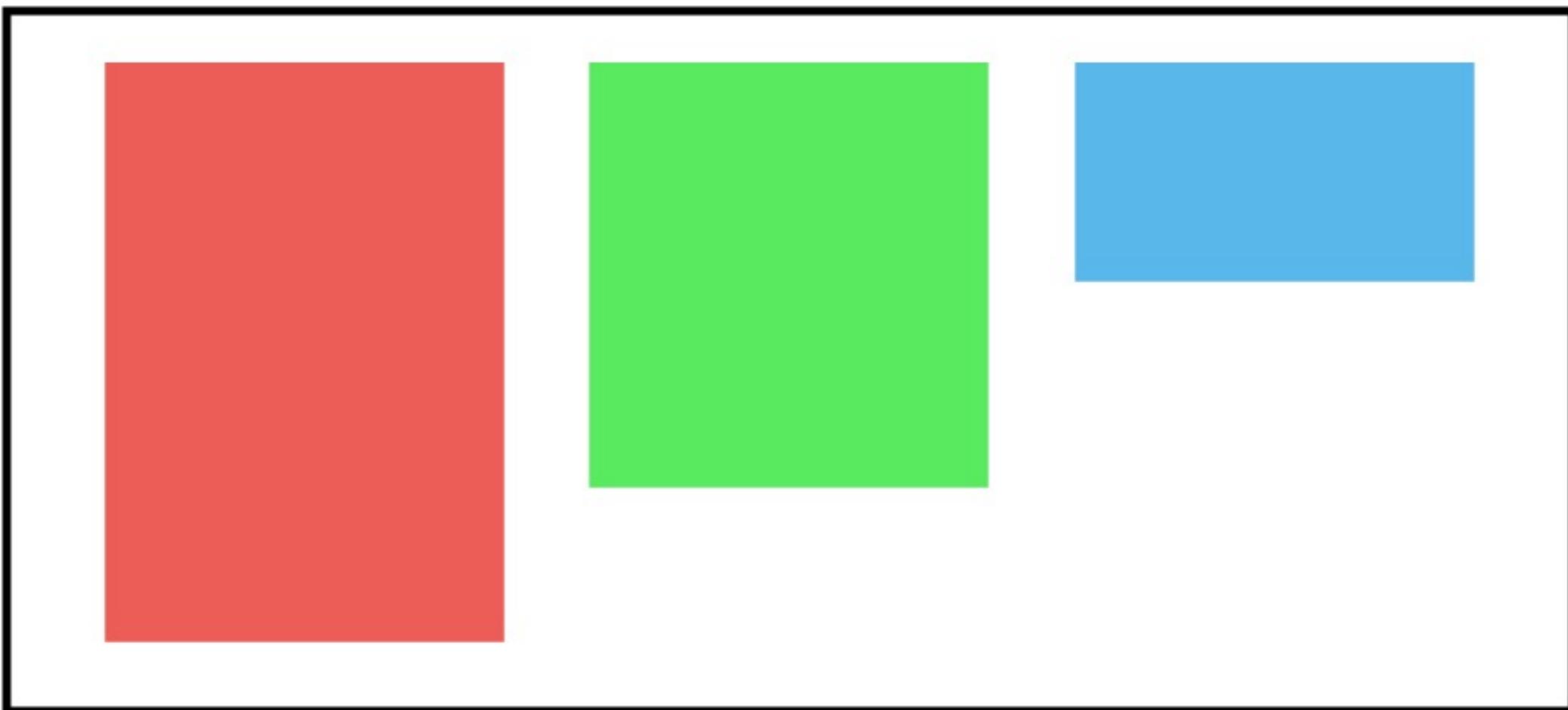
```
22  
23 .flex-container {  
24   justify-content: space-around;  
25 }  
26
```



FLEX DIRECTION

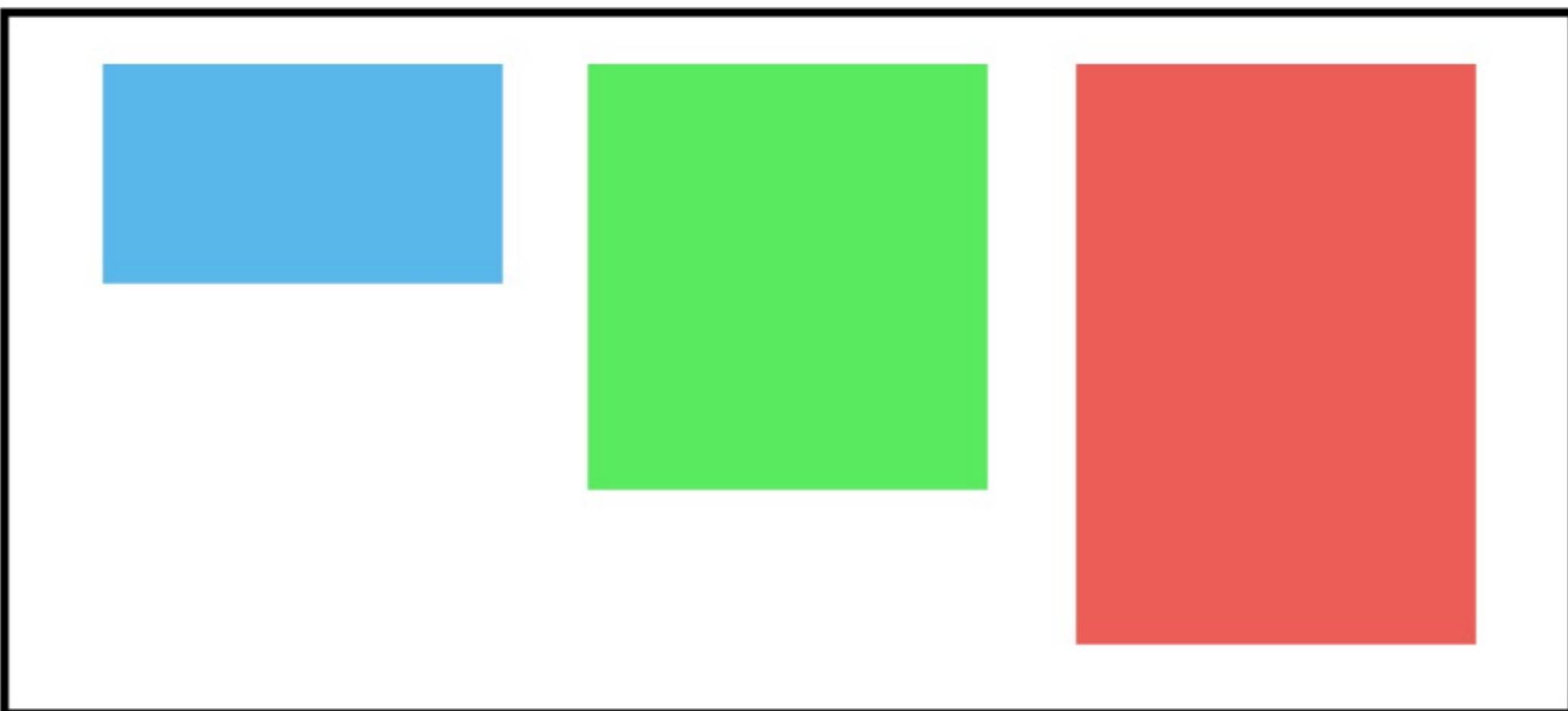
FLEX DIRECTION

```
22  
23 .flex-container {  
24   flex-direction: row;  
25 }  
26
```



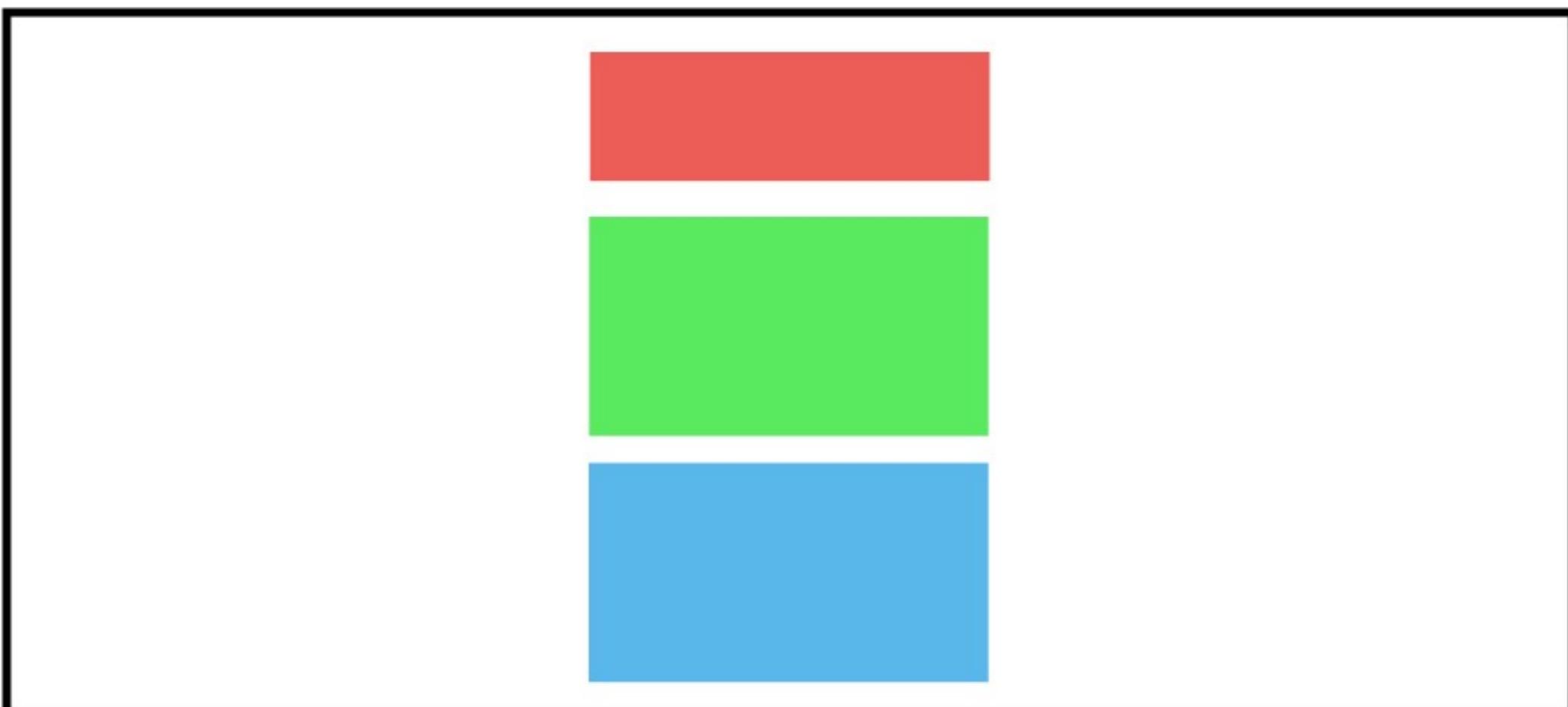
FLEX DIRECTION

```
22  
23 .flex-container {  
24   flex-direction: row-reverse;  
25 }  
26
```



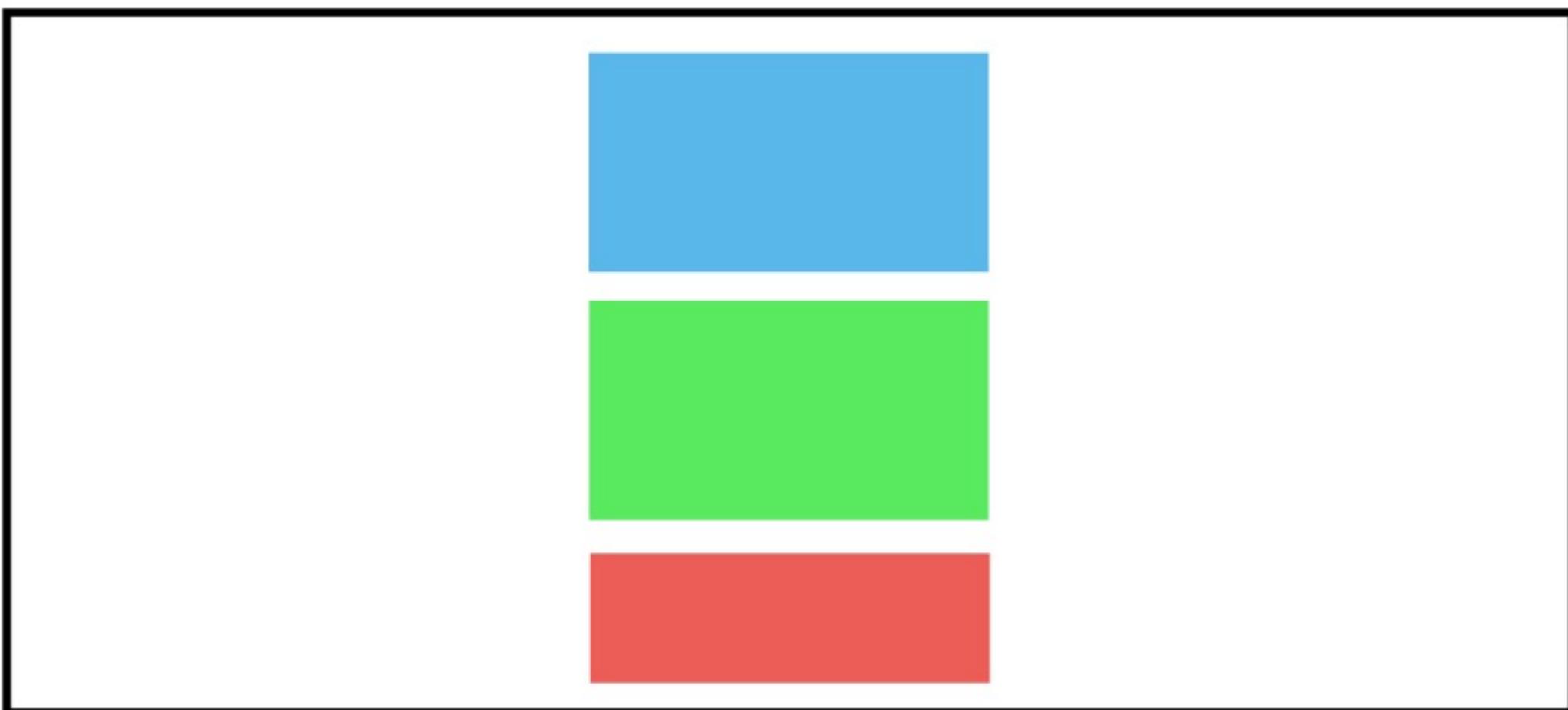
FLEX DIRECTION

```
22  
23 .flex-container {  
24   flex-direction: column;  
25 }  
26
```



FLEX DIRECTION

```
2  
3 .flex-container {  
4   flex-direction: column-reverse;  
5 }  
6
```



FLEX WRAP

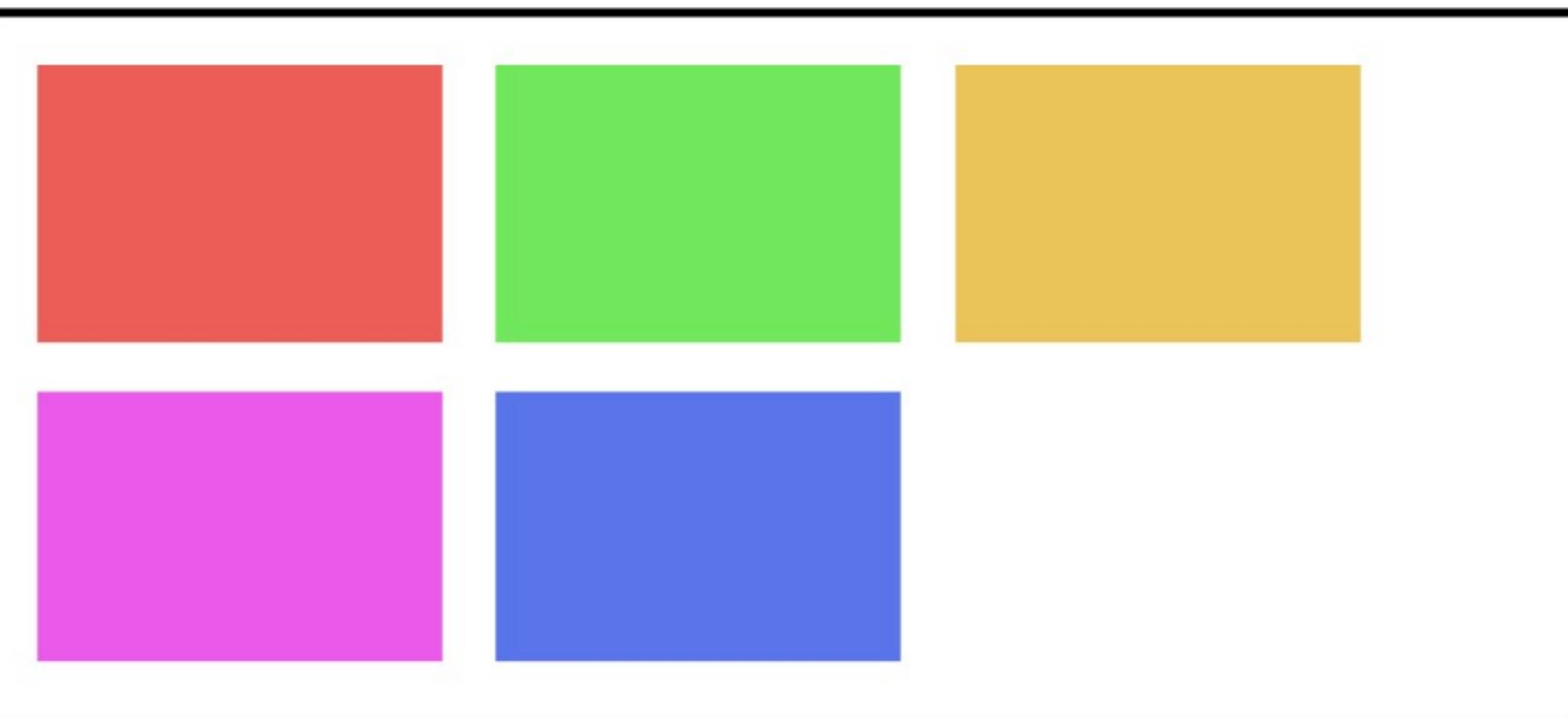
FLEX WRAP

```
23 .flex-container {  
24   flex-wrap: nowrap;  
25 }
```



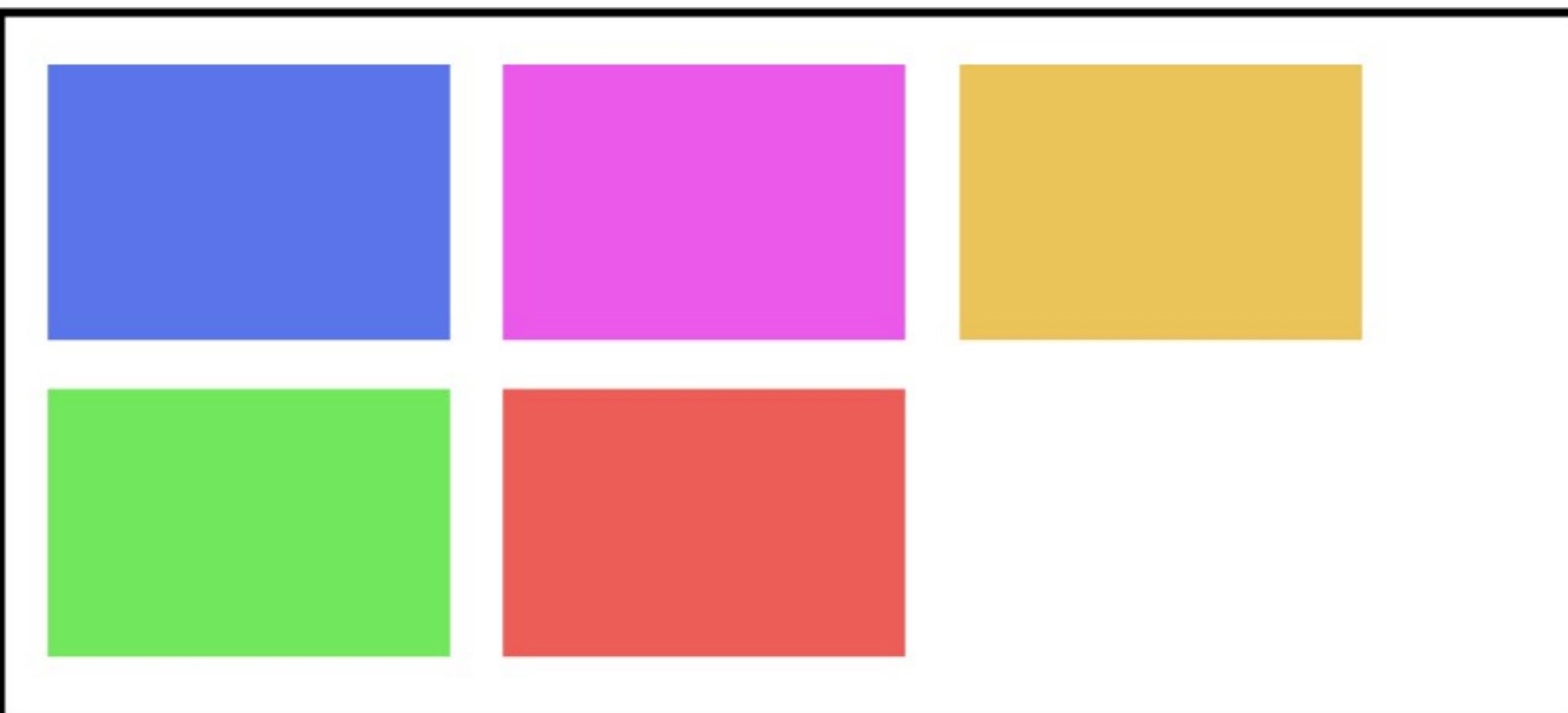
FLEX WRAP

```
23 .flex-container {  
24   flex-wrap: wrap;  
25 }
```



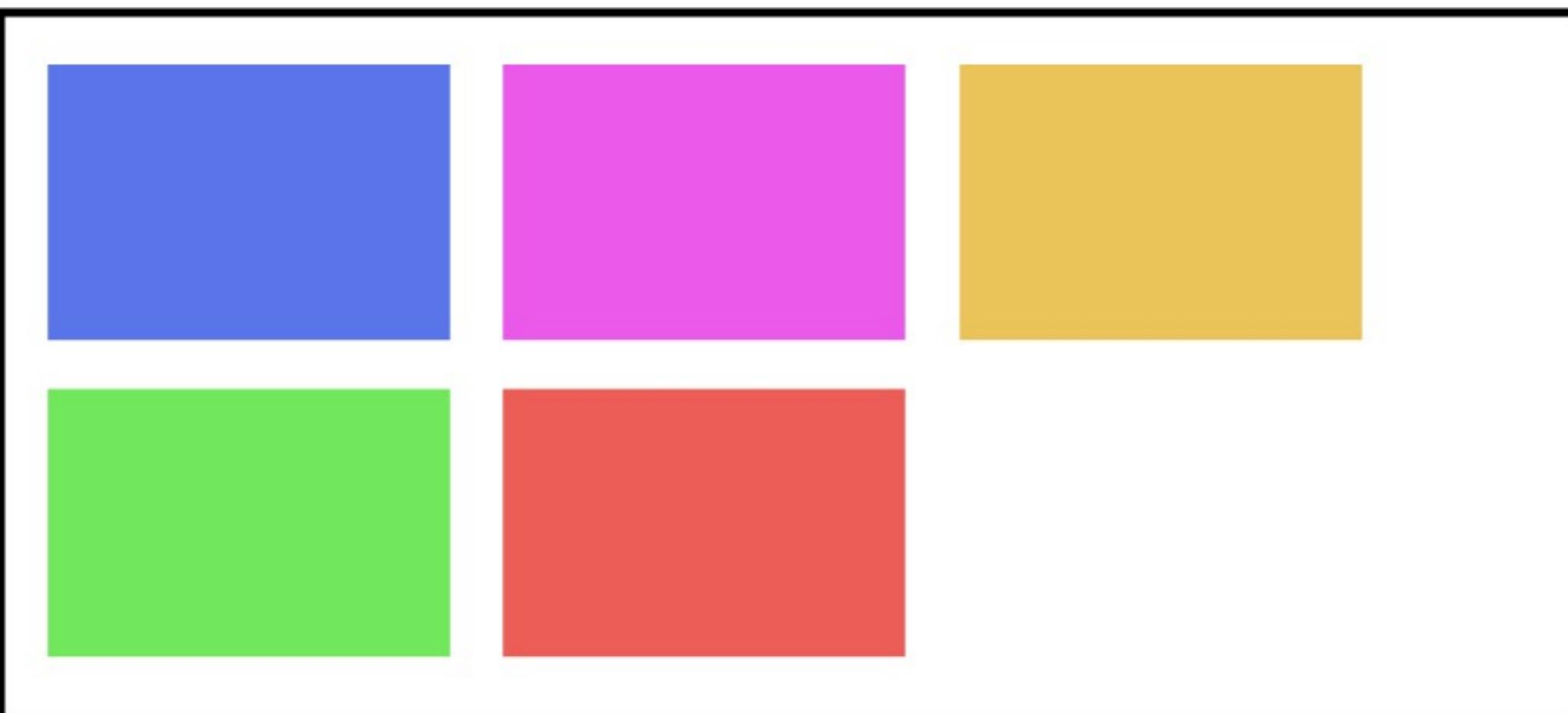
FLEX WRAP

```
22  
23 .flex-container {  
24   flex-wrap: wrap-reverse;  
25 }  
26
```



FLEX WRAP

```
22  
23 .flex-container {  
24   flex-wrap: wrap-reverse;  
25 }  
26
```



DIRECTION/WRAP SHORTHAND

```
22
23 .flex-container {
24   flex-flow: row wrap;
25 }
26
```

```
22
23 .flex-container {
24   flex-flow: column wrap-reverse;
25 }
26
```

FLEX ITEM

ALIGN-SELF:

FLEX ITEM

ALIGN-SELF:

ORDER:

FLEX ITEM

ALIGN-SELF:

ORDER:

FLEX-GROW:

FLEX ITEM

ALIGN-SELF:

ORDER:

FLEX-GROW:

FLEX-SHRINK:

FLEX ITEM

ALIGN-SELF:

ORDER:

FLEX-GROW:

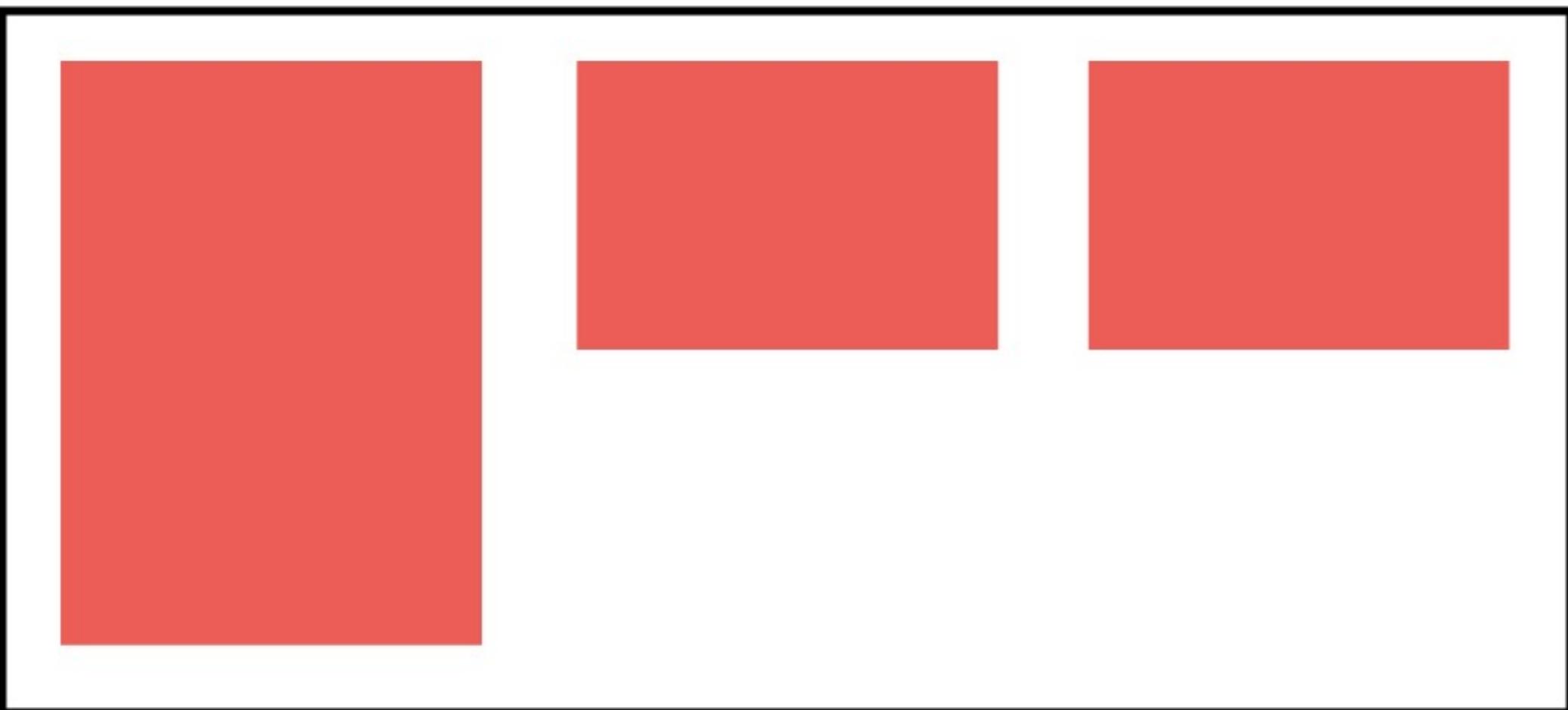
FLEX-SHRINK:

FLEX-BASIS:

ALIGN-SELF

ALIGN SELF

```
22  
23 .first-box {  
24   align-self: stretch;  
25 }  
26
```



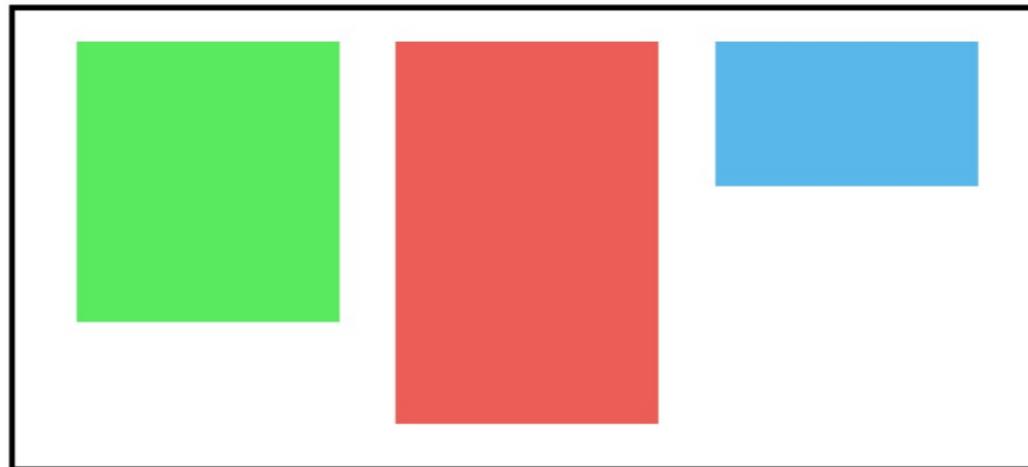
ALIGN SELF

```
23 .first-box {  
24   align-self: flex-end;  
25 }
```

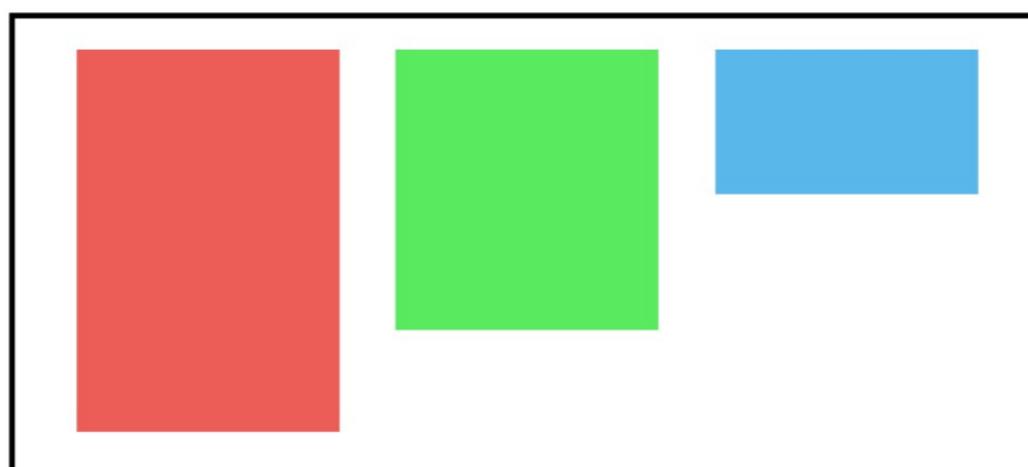


ORDER

ORDER



```
23 .red-box {  
24   order: -1;  
25 }
```





FLEX-GROW

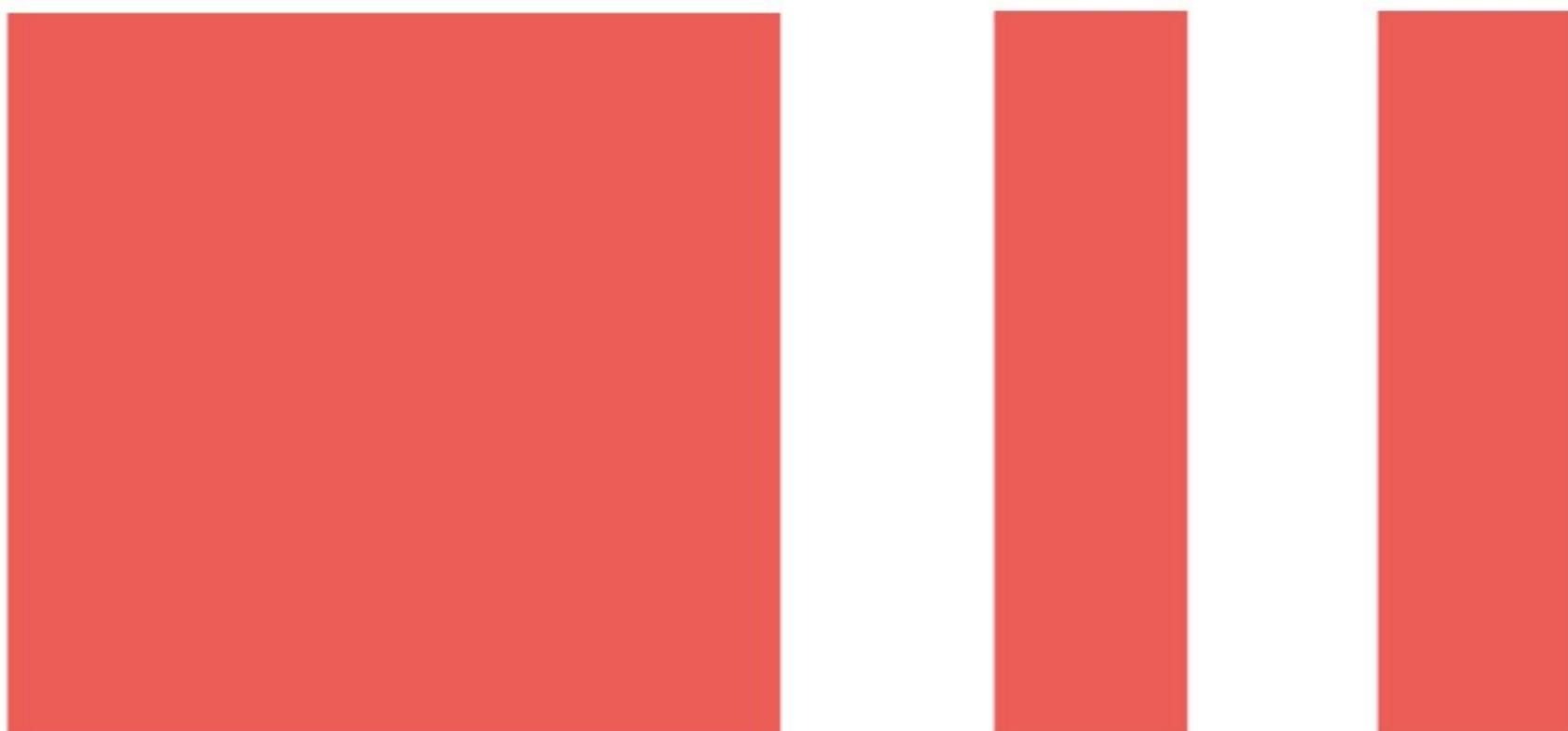
FLEX GROW

```
22  
23 .flex-item {  
24   width: 10%;  
25 }  
26
```



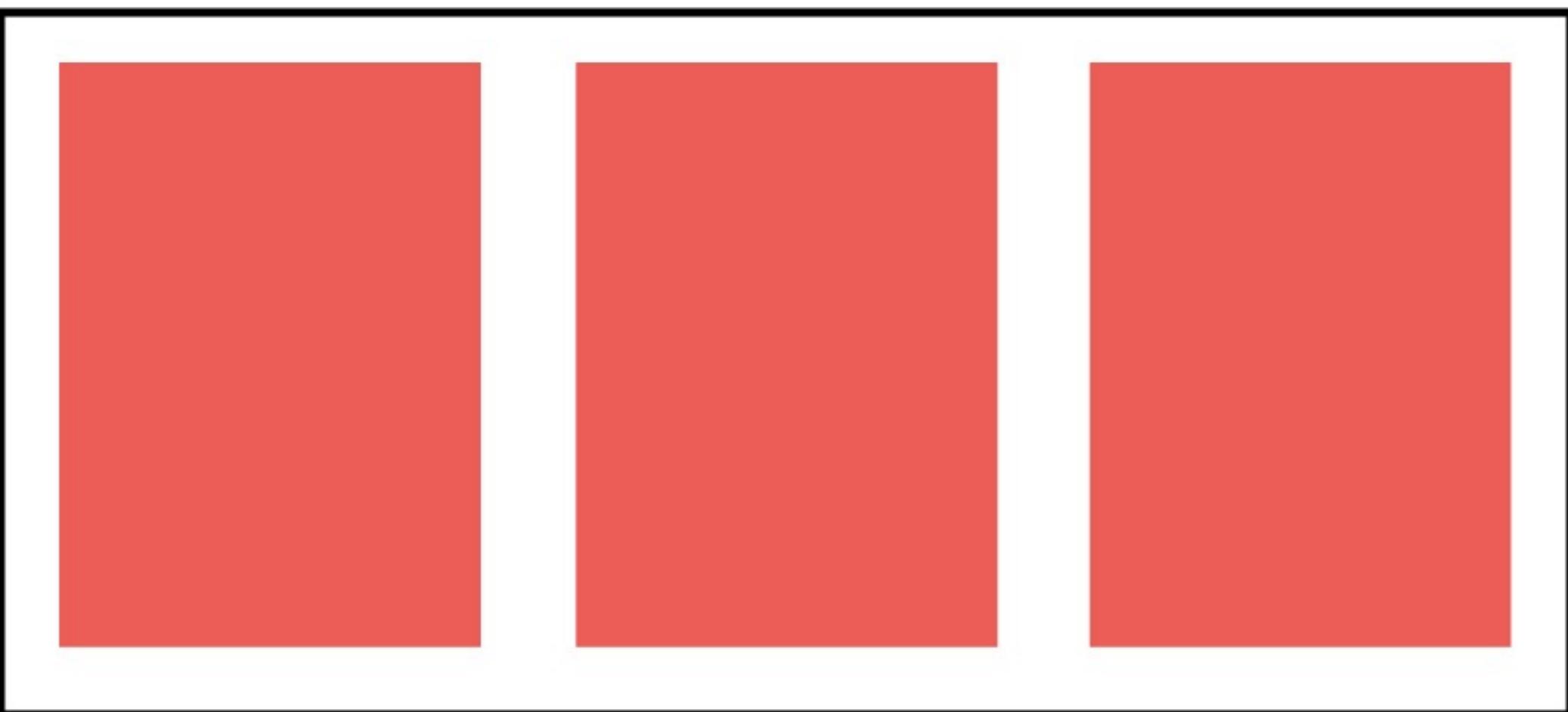
FLEX GROW

```
23 .first-box {  
24   flex-grow: 1;  
25 }
```



FLEX GROW

```
23 .flex-item {  
24   width: 20%;  
25   flex-grow: 1;  
26 }
```



FLEX GROW

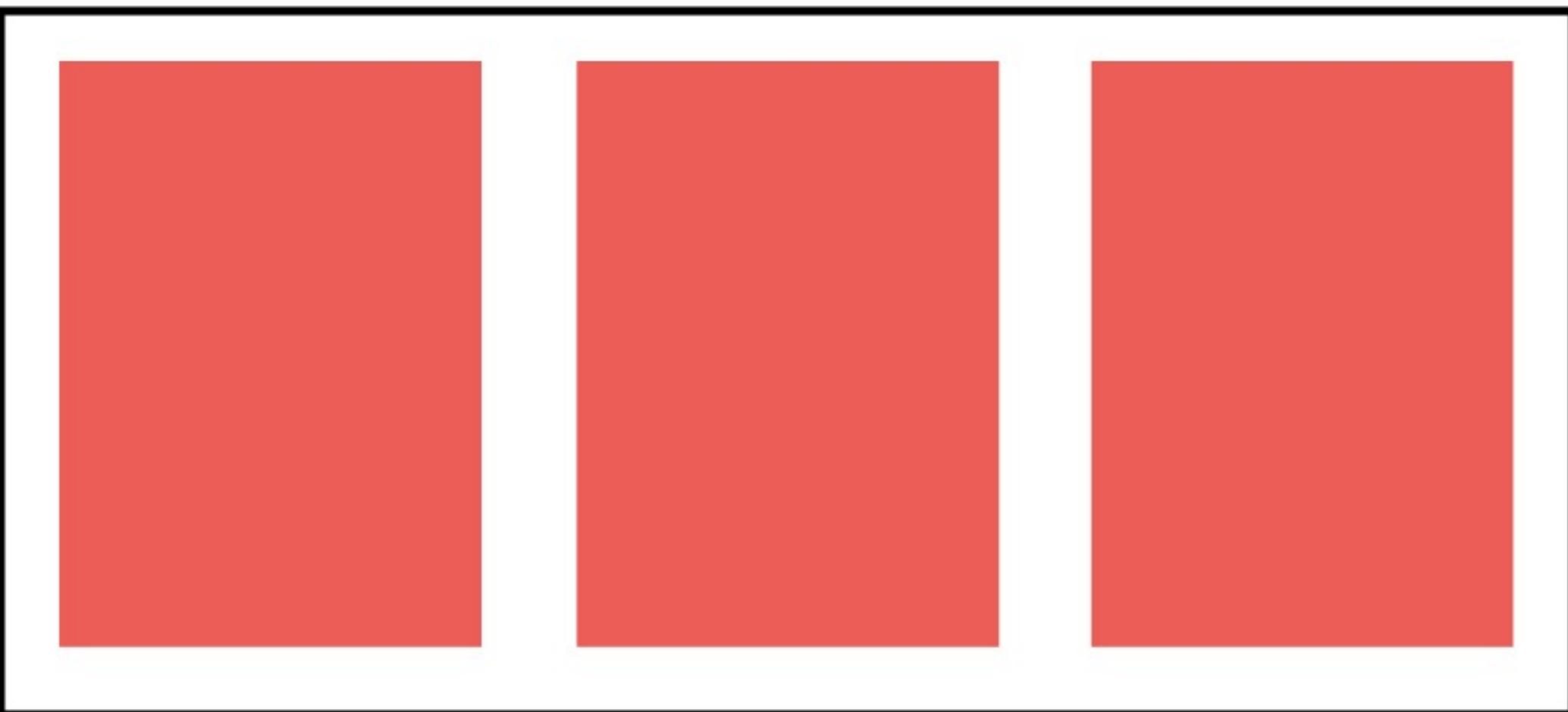
```
22  
23 .first-box {  
24   flex-grow: 2;  
25 }  
26
```



FLEX-SHRINK

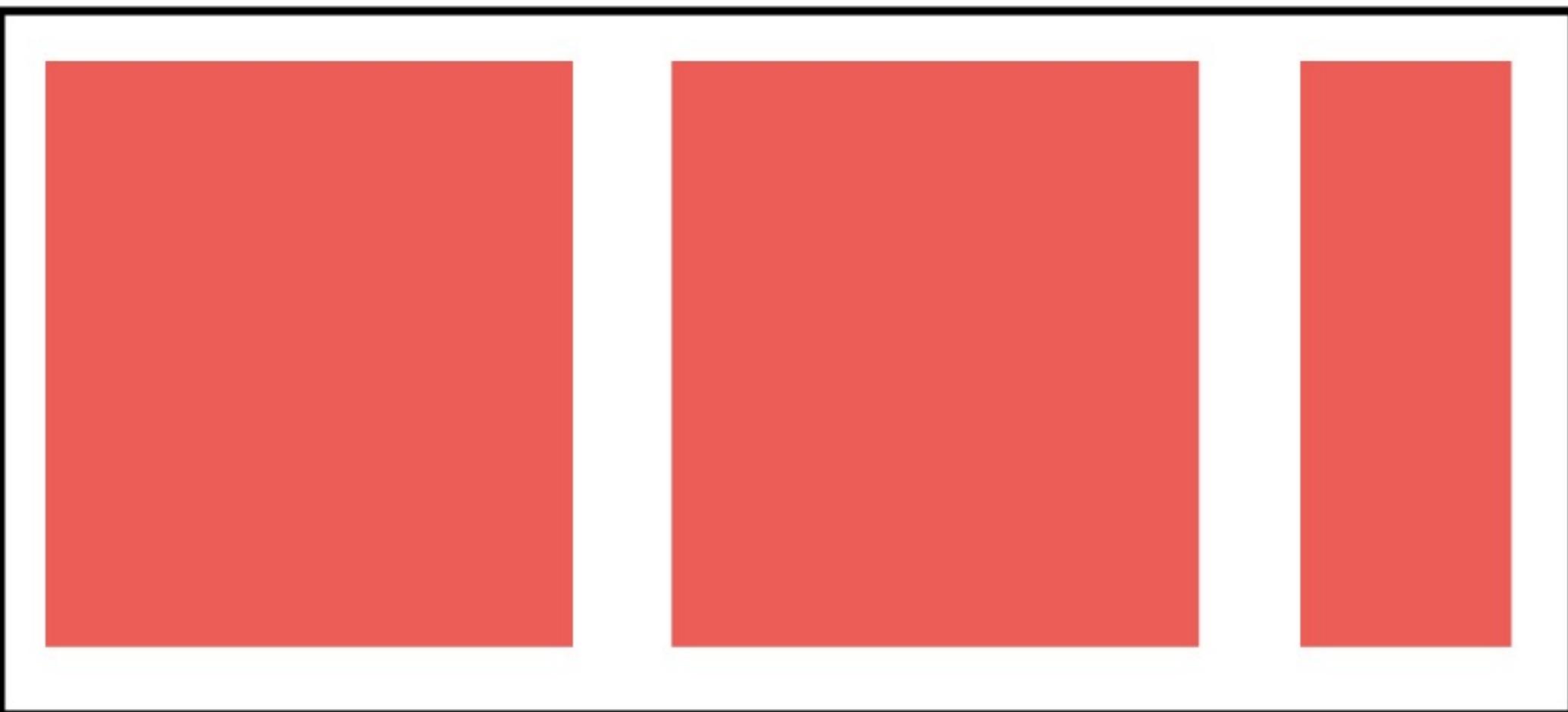
FLEX SHRINK

```
22  
23 .flex-item {  
24   width: calc(100% * 1/3);  
25 }  
26
```



FLEX SHRINK

```
22  
23 .last-box {  
24   flex-shrink: 3;  
25 }  
26
```



FLEX-BASIS

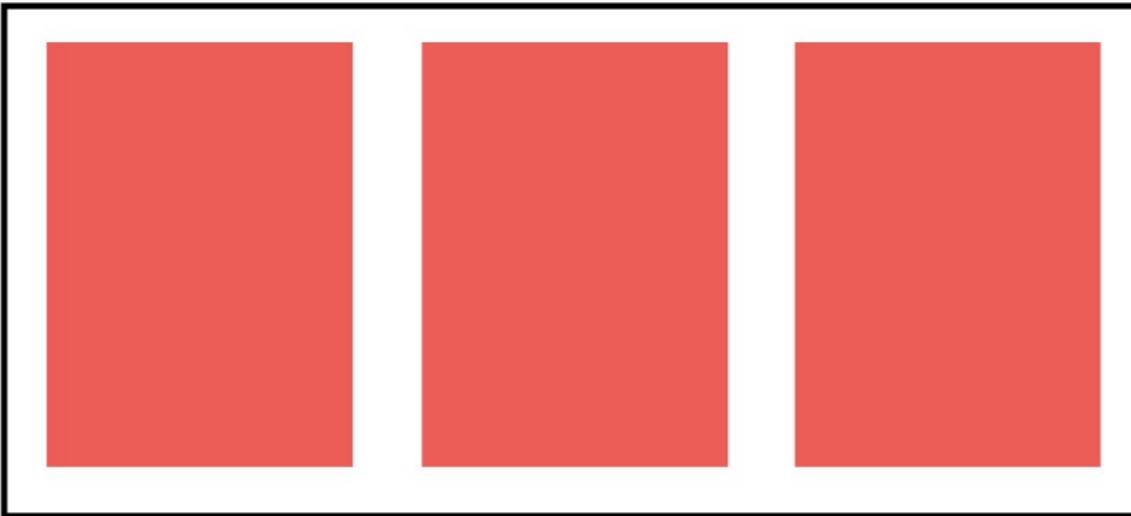
FLEX BASIS

```
22  
23 .flex-item {  
24   flex-basis: calc(100% / 3);  
25 }  
26
```



GROW/SHRINK/BASIS SHORTHAND

```
22  
23 .flex-item {  
24   flex: 0 1 calc(100% / 3);  
25 }  
26
```



WE DID IT!



FLEX IN THE REAL WORLD

PRESIDENT CAMACHO'S **XTREME** PROTEIN POWDER!11

[Home](#) [About Us](#) [Contact](#)



**It's going to fix
EVERYTHING.**

Lore ipsum dolor sit amet,
consectetuer adipiscing elit. Aenean
commodo ligula eget dolor. Aenean
massa.

Amazing!



Lore ipsum dolor sit amet, aenean
adipiscing elit. Aenean commodo sit



Lore ipsum dolor sit amet, aenean
adipiscing elit. Aenean commodo sit



Lore ipsum dolor sit amet, aenean
adipiscing elit. Aenean commodo sit

LINKS!

www.w3.org/TR/css-flexbox-1/

the-echoplex.net/flexyboxes/

css-tricks.com/snippets/css/a-guide-to-flexbox/

philipwalton.github.io/solved-by-flexbox/demos/grids/

THANK YOU!!

github.com/ryanhagerty/flexbox

@hotpizzas

@ChromaticHQ