



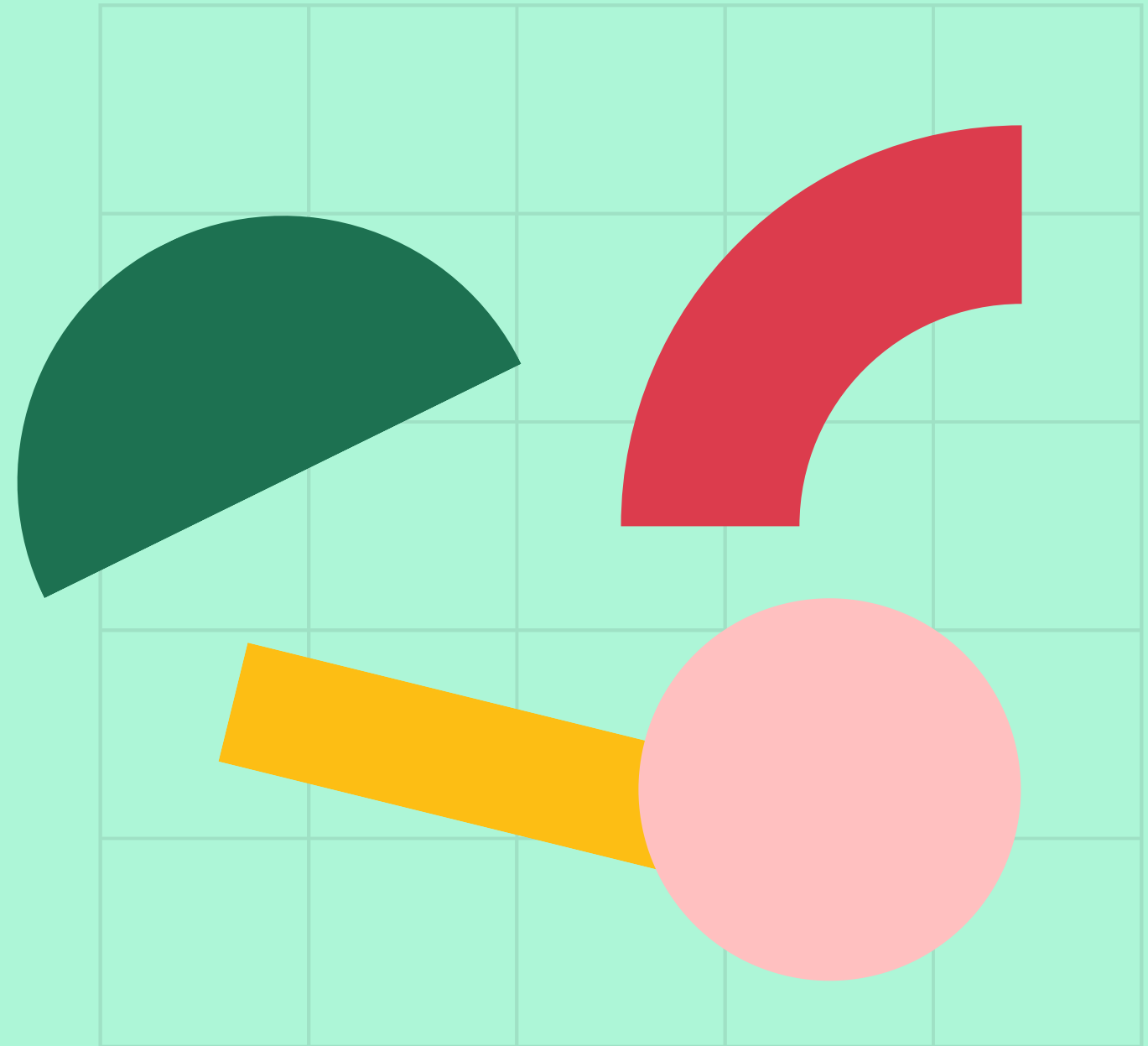
CSS Frameworks: Bootstrap

Course for Beginners

Unit Goals

what we'll cover

- what is Bootstrap?
- components
- grid system





BOOTSTRAP

"The world's most popular
CSS Framework"

WHAT IS IT?

Bootstrap helps us quickly build responsive websites.

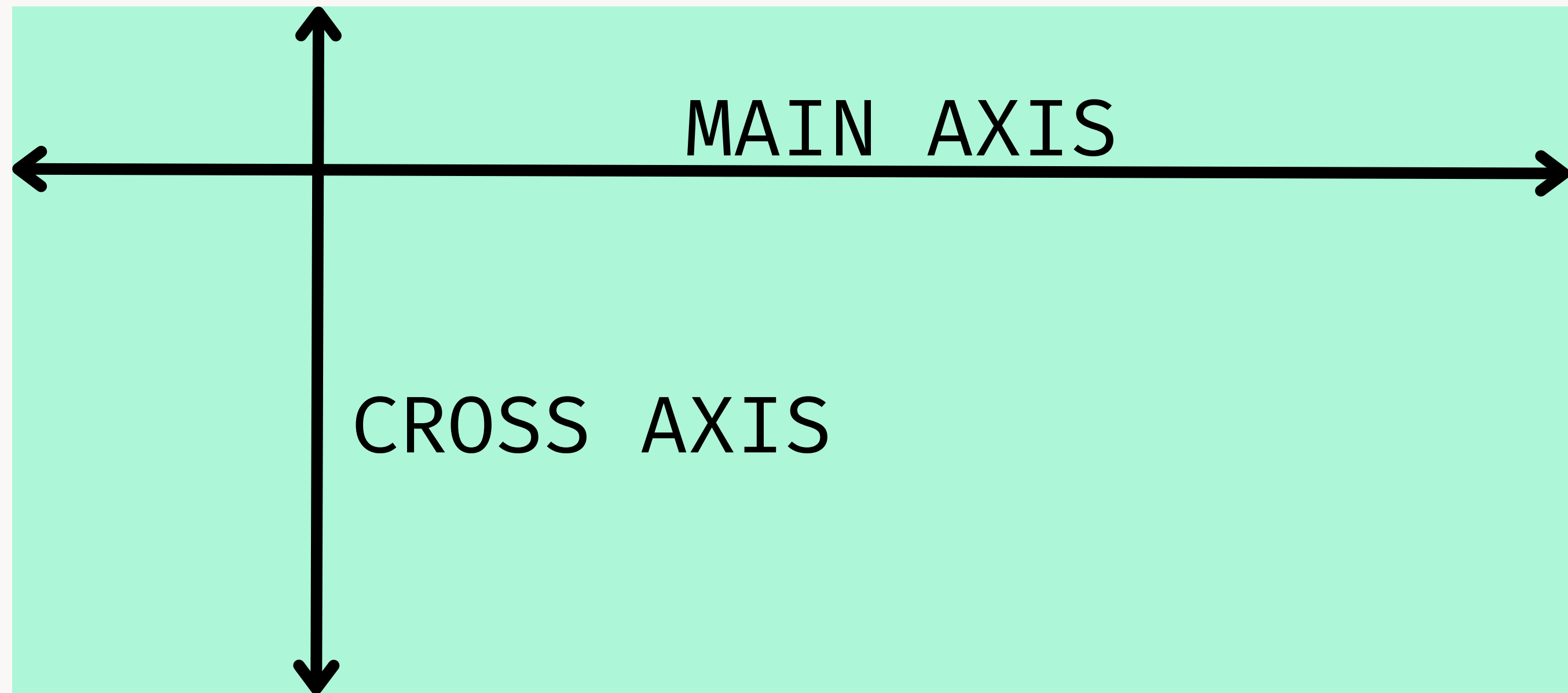
COMPONENTS

Bootstrap gives us access to a bunch of pre-built components that we can incorporate into our own websites.

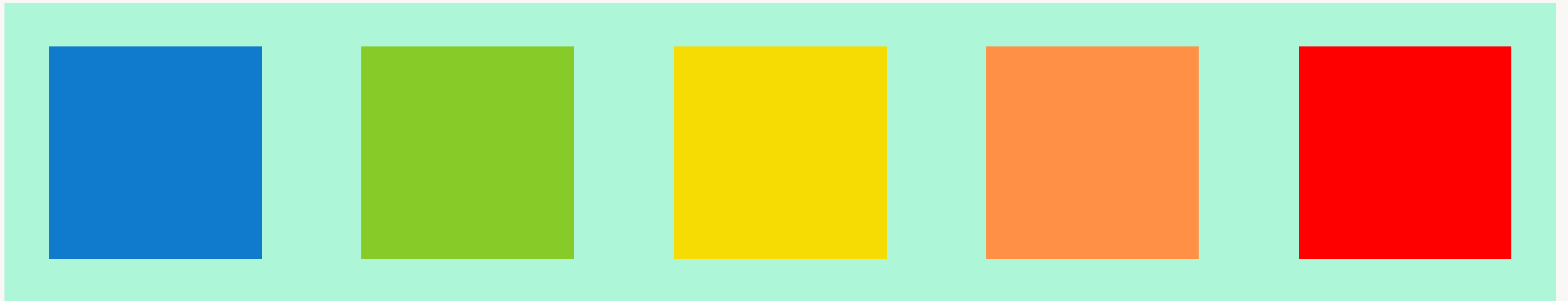
GRID SYSTEM

Bootstrap also comes with a grid system, which helps us construct our custom, responsive layouts.

THE FLEX MODEL

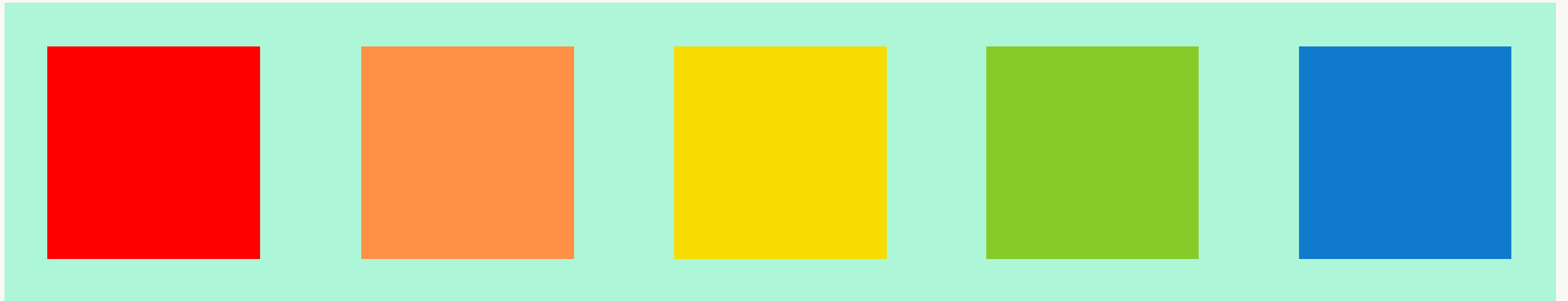


FLEX DIRECTION



```
flex-direction: row;
```

FLEX DIRECTION



```
flex-direction: row-reverse;
```

FLEX DIRECTION

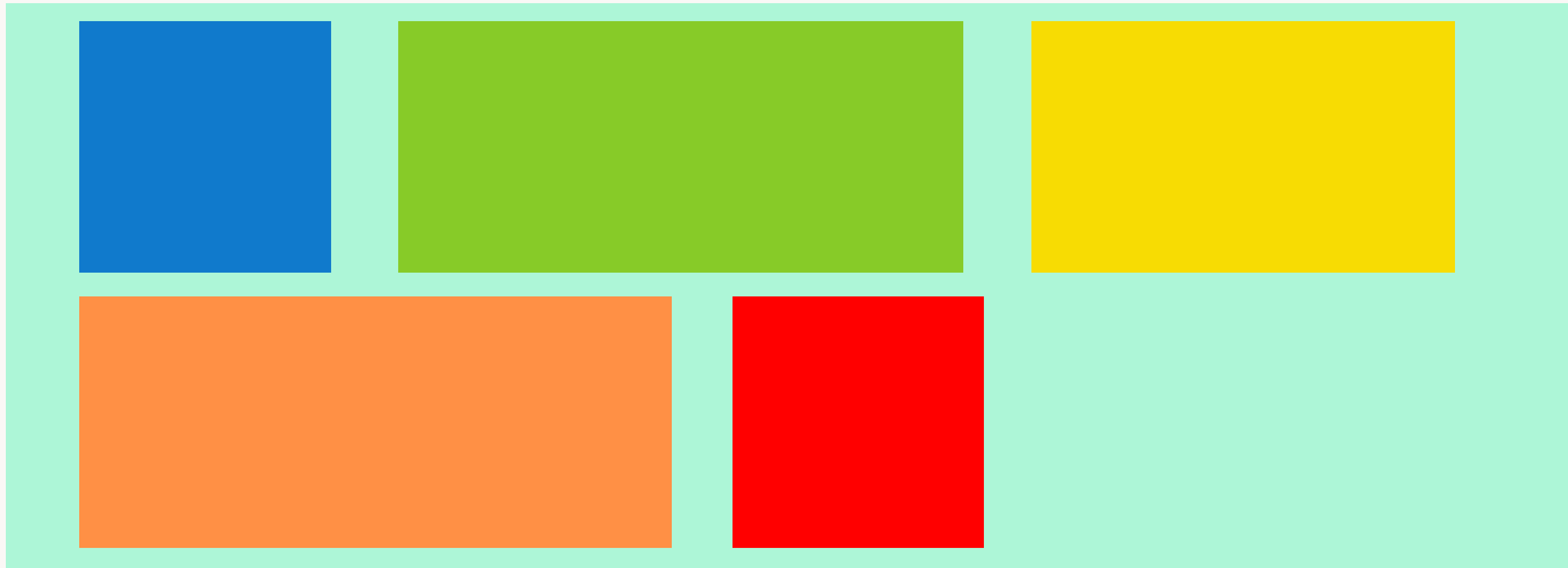


```
flex-direction: column;
```



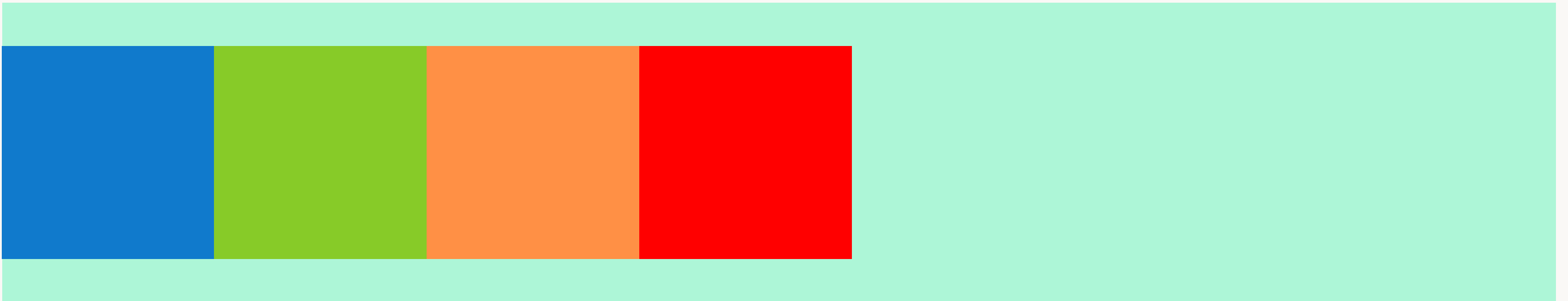
```
flex-direction: column-reverse;
```

FLEX WRAP



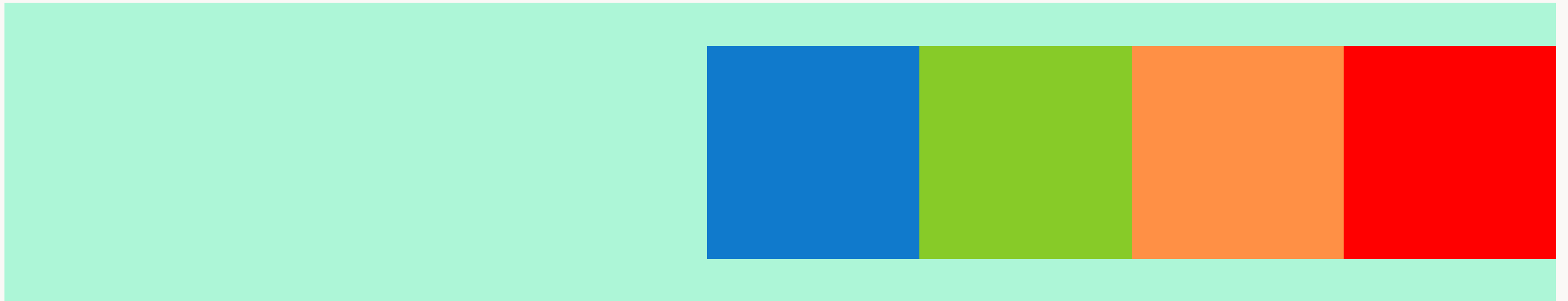
```
flex-wrap: wrap;
```


JUSTIFY CONTENT



```
justify-content: flex-start;
```

JUSTIFY CONTENT



```
justify-content: flex-end;
```

JUSTIFY CONTENT



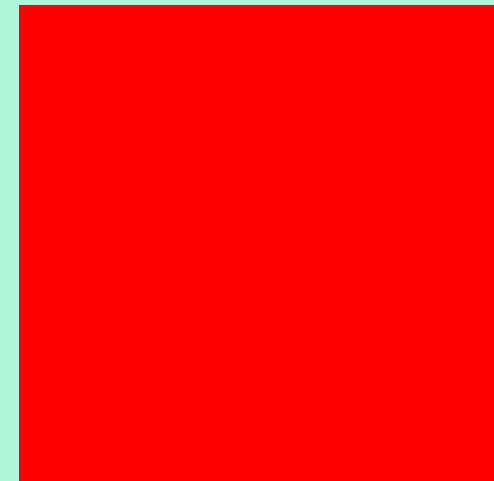
```
justify-content: center;
```

JUSTIFY CONTENT



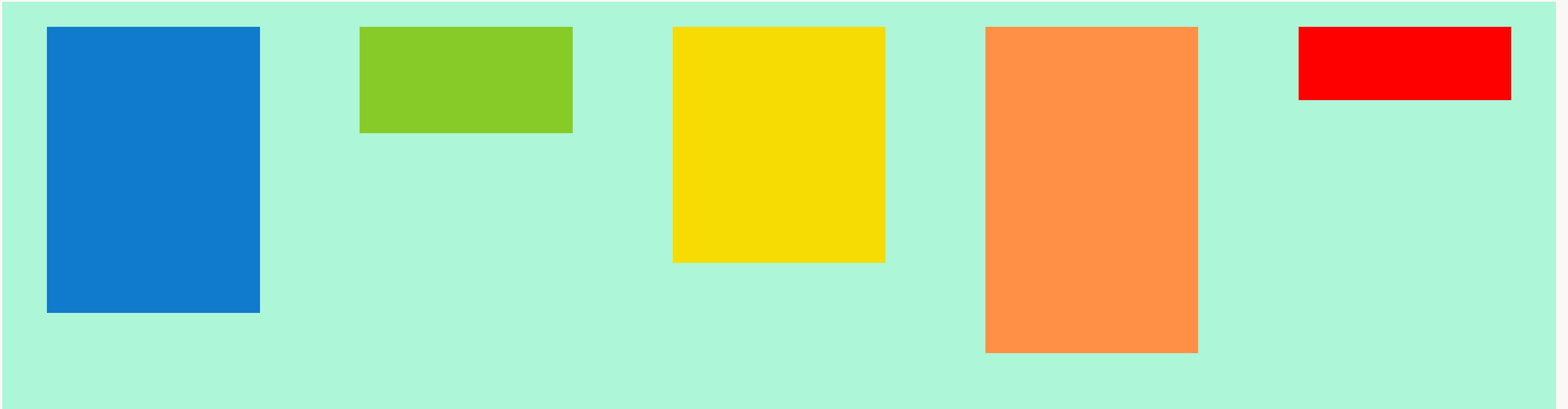
```
justify-content: space-between;
```

JUSTIFY CONTENT



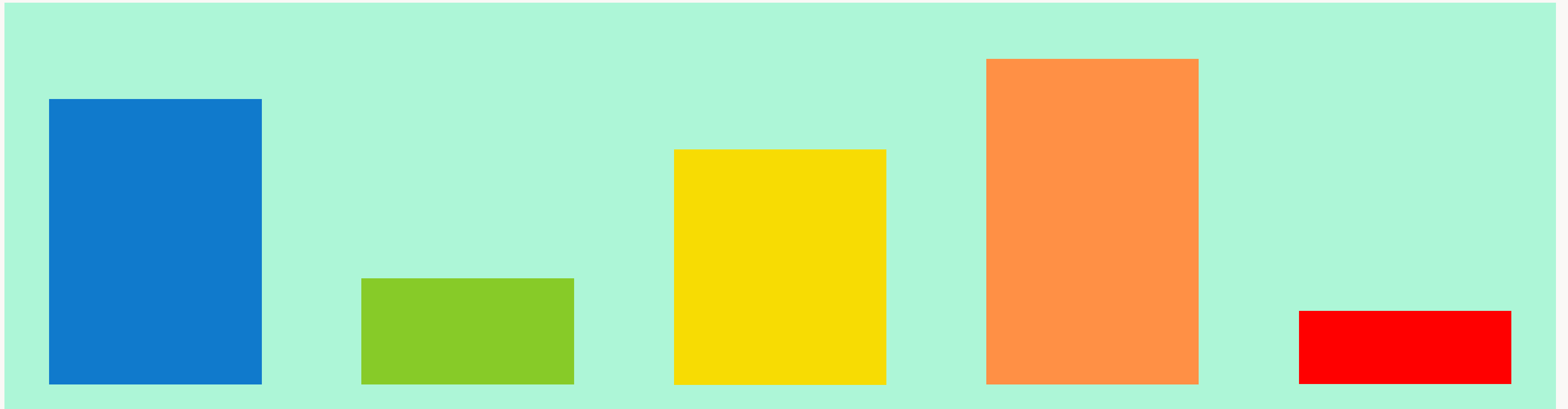
```
justify-content: space-around;
```

ALIGN ITEMS



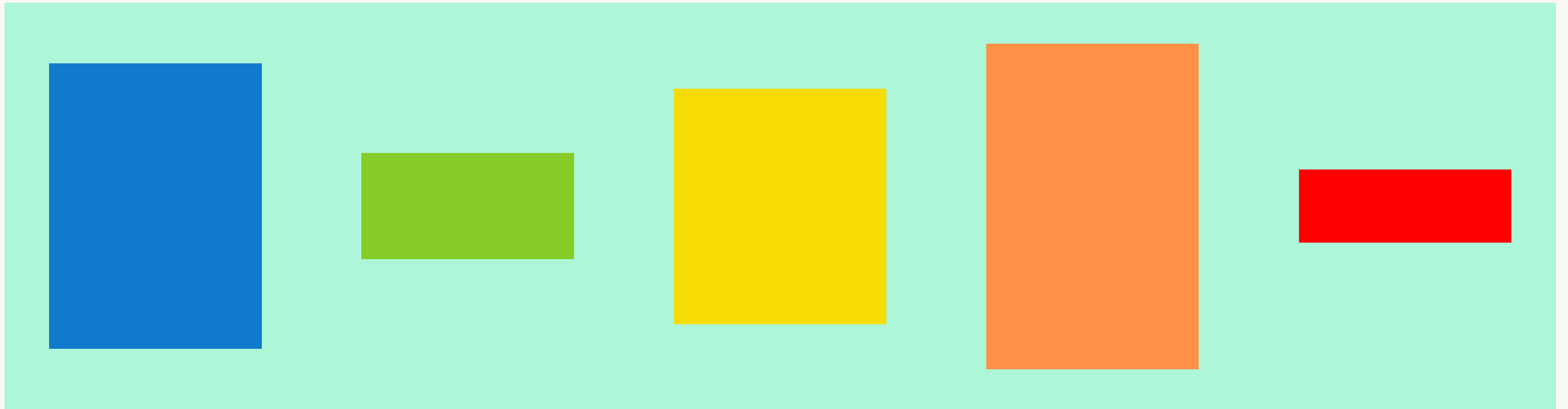
```
align-items: flex-start;
```

ALIGN ITEMS



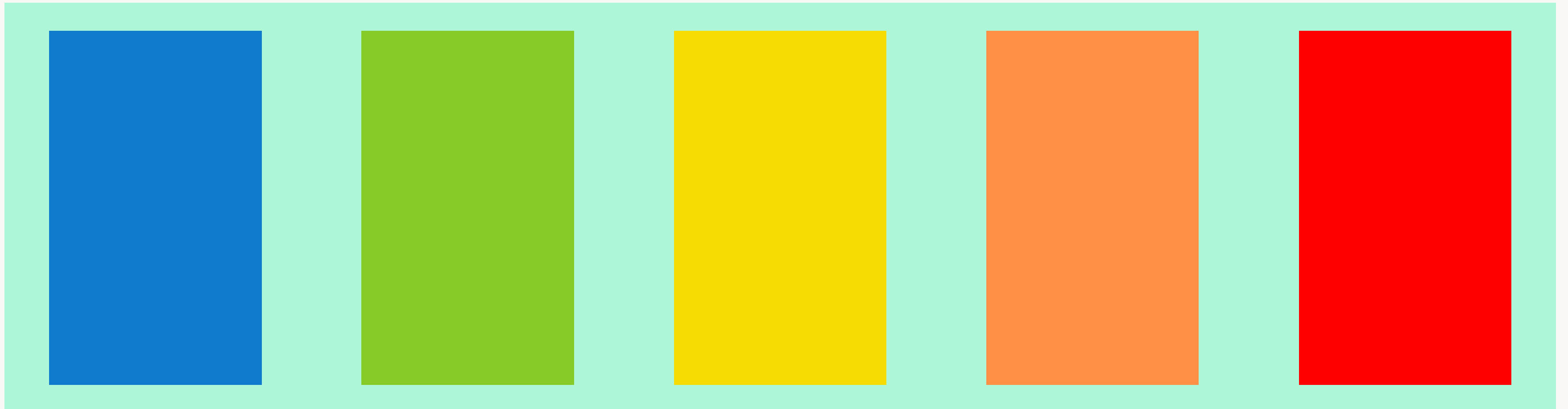
```
align-items: flex-end;
```

ALIGN ITEMS



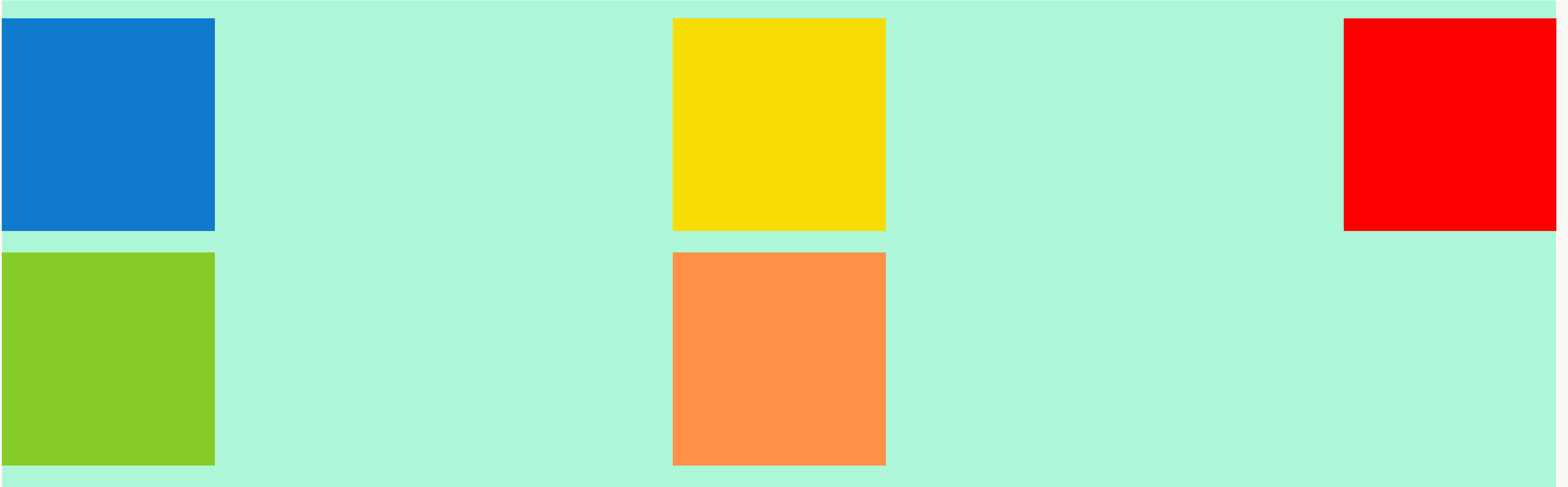
```
align-items: center;
```


ALIGN ITEMS



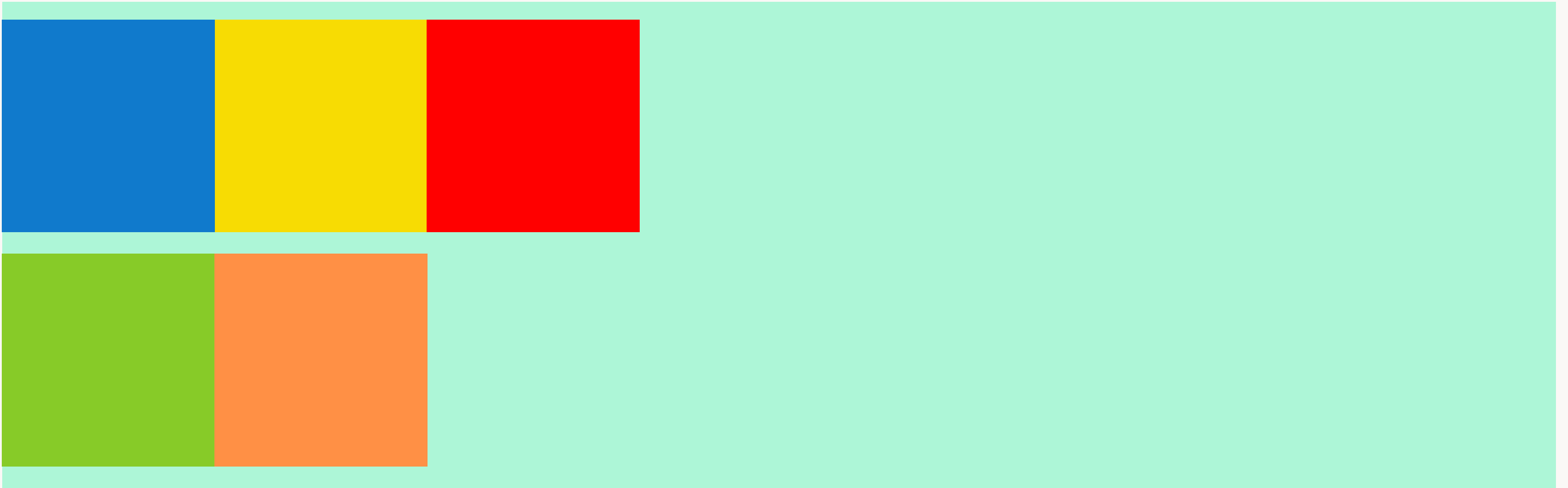
```
align-items: stretch;
```

ALIGN CONTENT



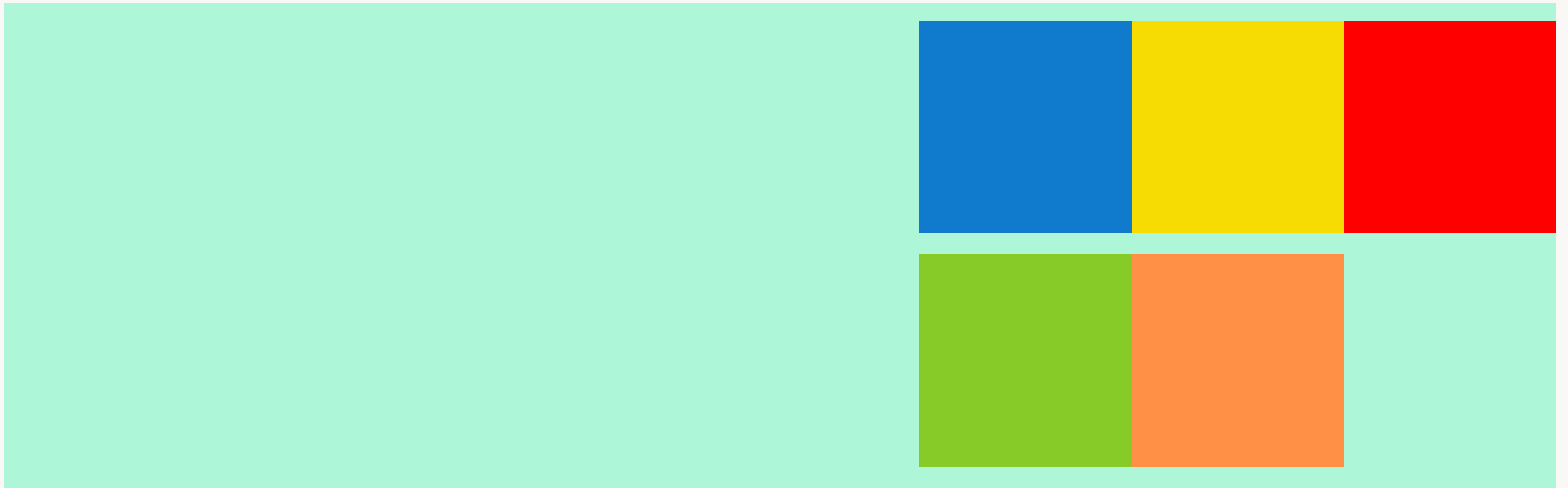
```
align-content: space-between;
```

ALIGN CONTENT



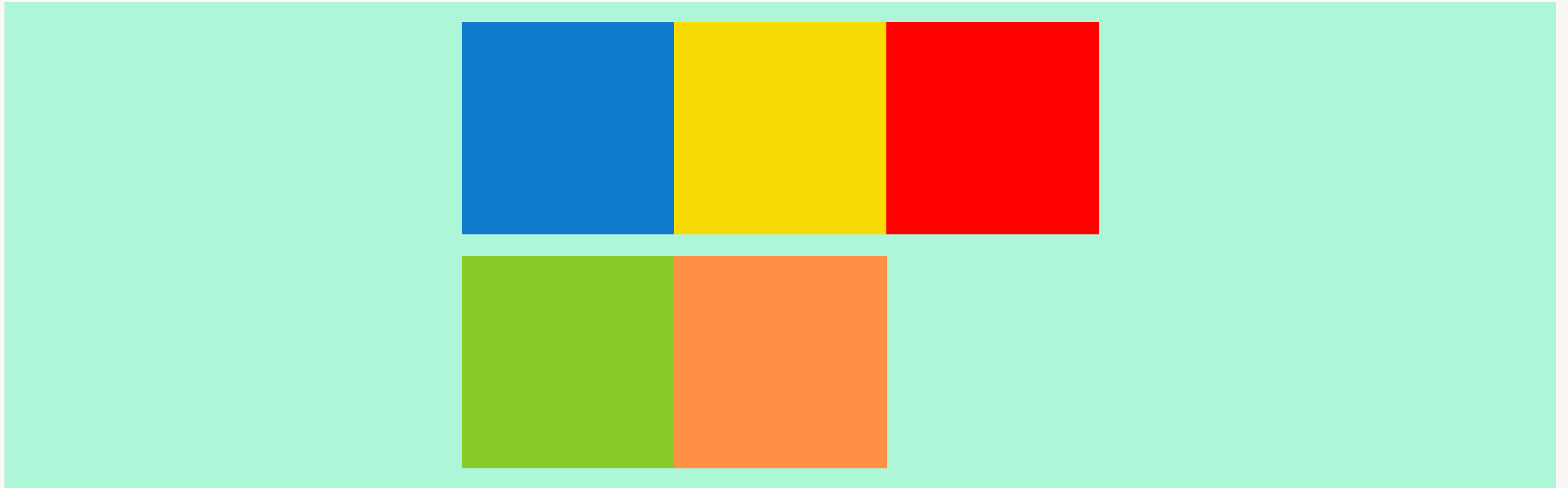
```
align-content: flex-start;
```

ALIGN CONTENT



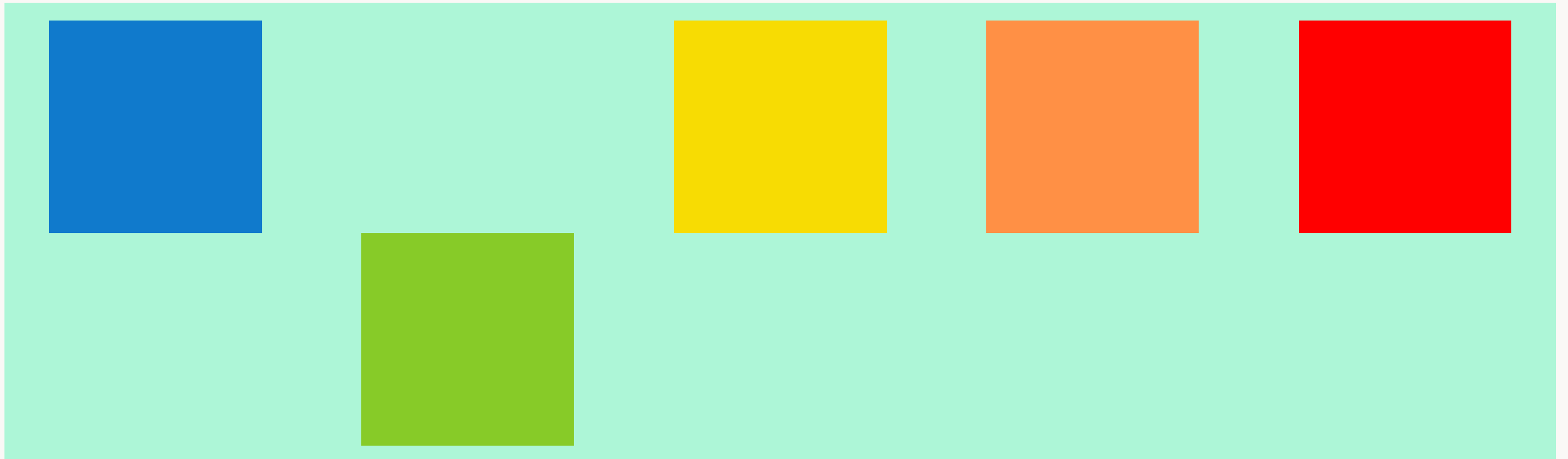
```
align-content: flex-end;
```

ALIGN CONTENT



```
align-content:center;
```

ALIGN SELF



```
align-self: flex-end;
```



FLEX SIZING PROPERTIES

FLEX-BASIS

Defines the initial size of an element before additional space is distributed.

FLEX-GROW

Controls the amount of available space an element should take up. Accepts a unit-less number value.

FLEX-SHRINK

If items are larger than the container, they shrink according to flex-shrink.



RESPONSIVE DESIGN

What it is and why
you should care?



THE PROBLEM

As mobile devices and tablets became widely available, developers had a problem... How do we create websites that look good on all screen sizes?

ONE APPROACH

Early on, it was common to create separate stylesheets for different devices, or even completely different websites for each size.

ENTER RESPONSIVE

These days, we typically create ONE website and stylesheet that is able to repond to different device sizes and features

MEDIA QUERIES

Allow us to modify our styles depending on particular parameters like screen width or device type.





```
@media (max-width: 800px) {  
  .sidebar {  
    display: none;  
  }  
  
  .main {  
    width: 80%;  
  }  
}  
  
@media (min-width: 30em) and (orientation: landscape) {  
  #container {  
    flex-direction: column;  
    justify-content: center;  
  }  
}
```

MEDIA QUERIES