



WEBDEVTEACHER.COM

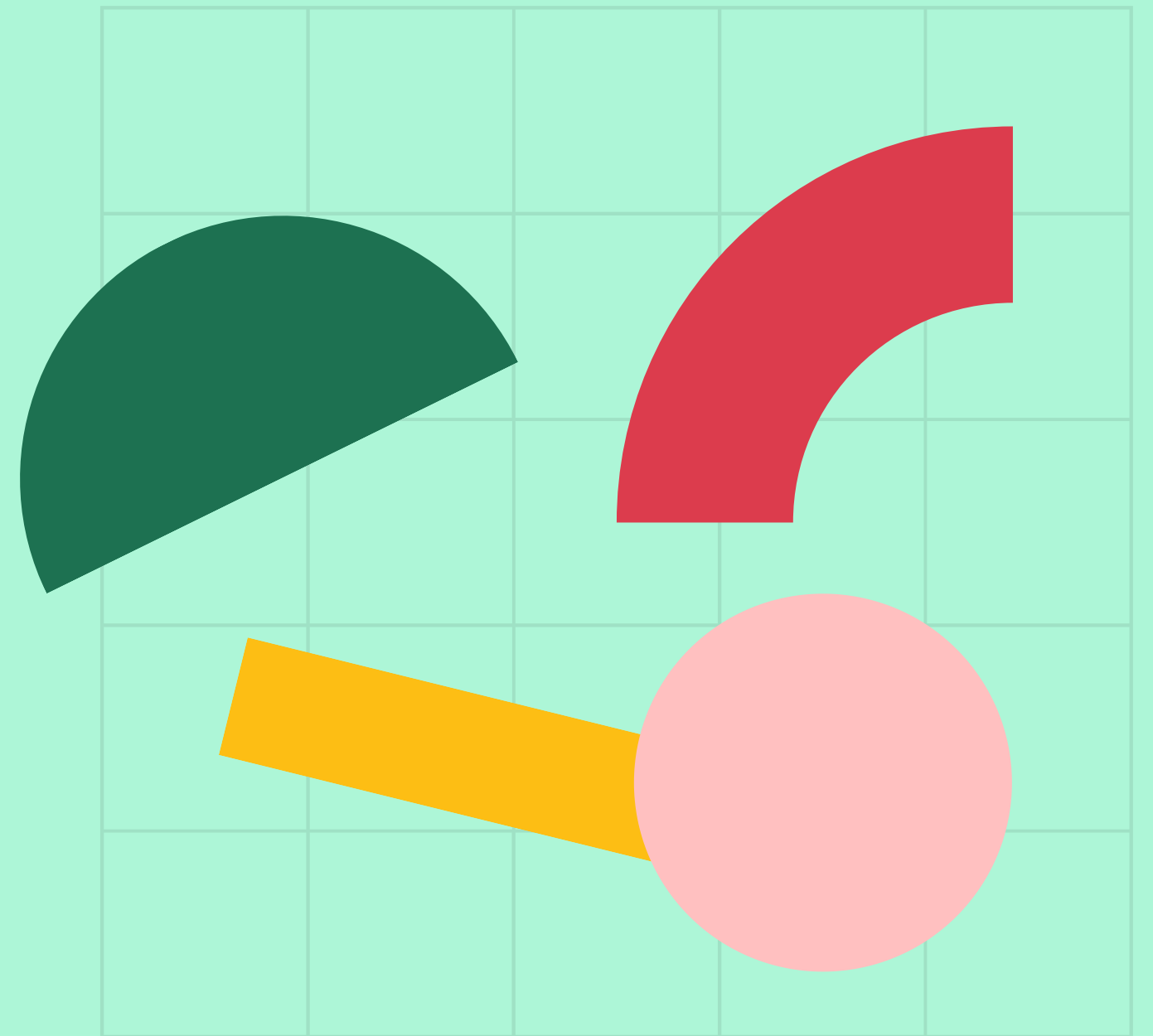
# CSS Frameworks: Bootstrap

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.

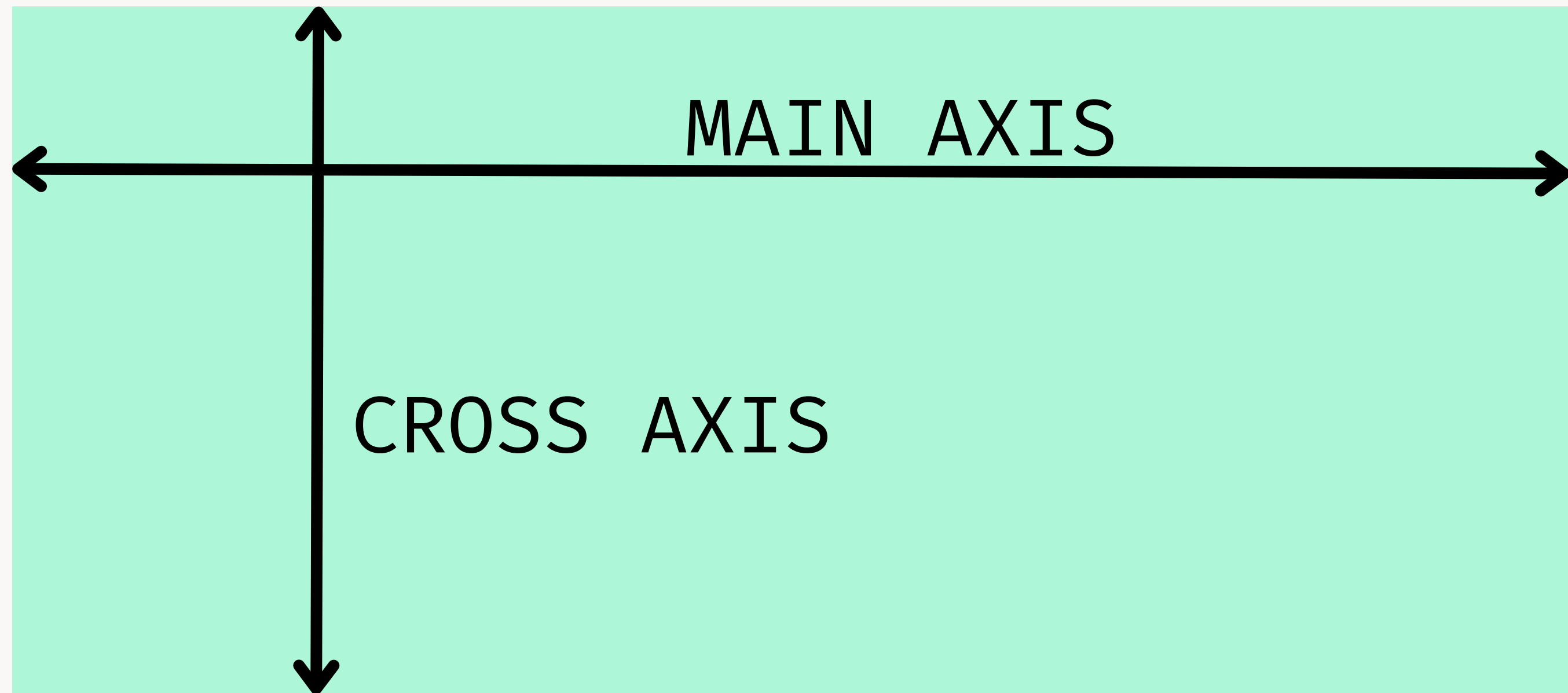
## COMPONENTS

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

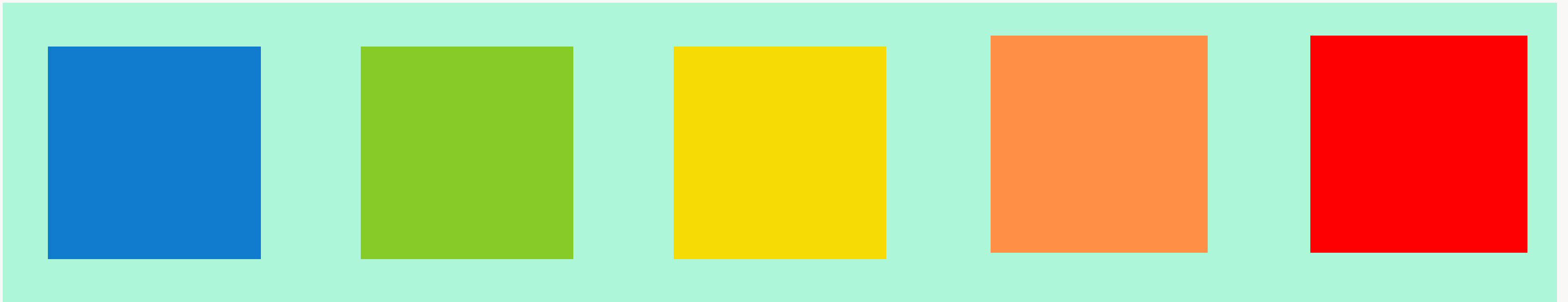
## GRID SYSTEM

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

# THE FLEX MODEL

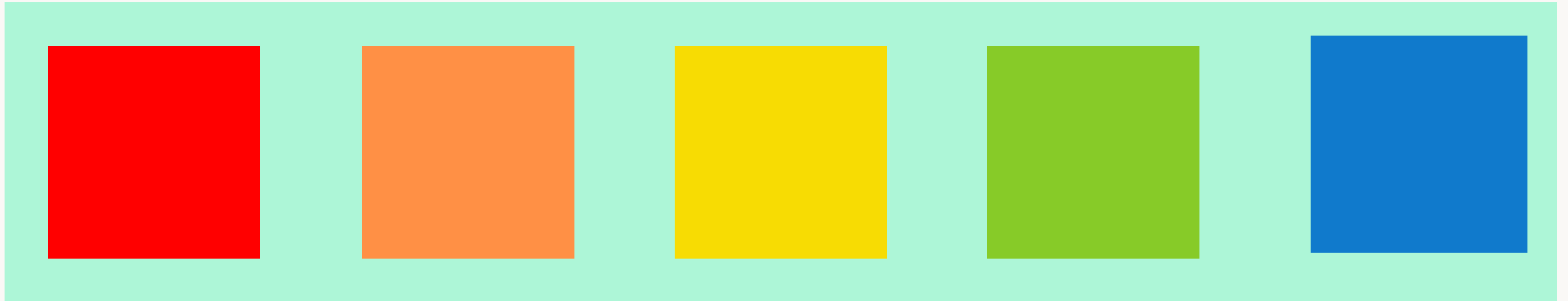


# FLEX DIRECTION



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

# FLEX DIRECTION



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

# FLEX DIRECTION

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

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



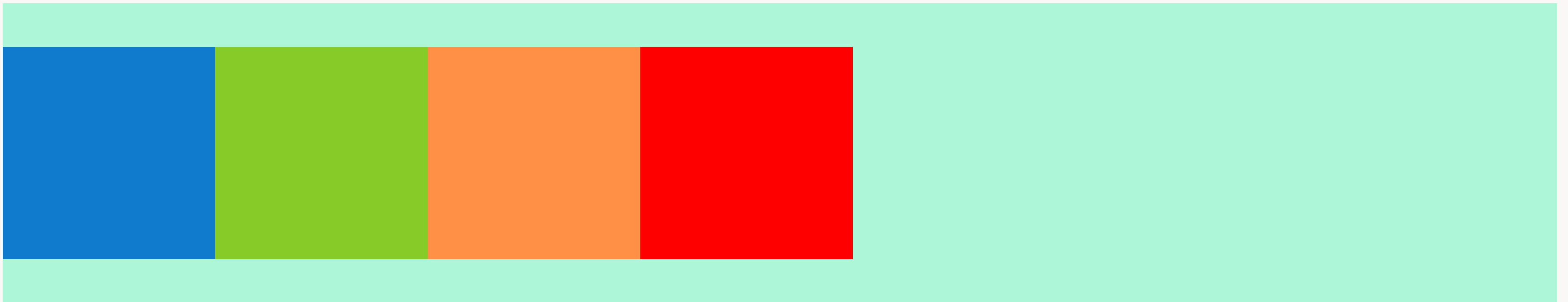
# FLEX WRAP



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

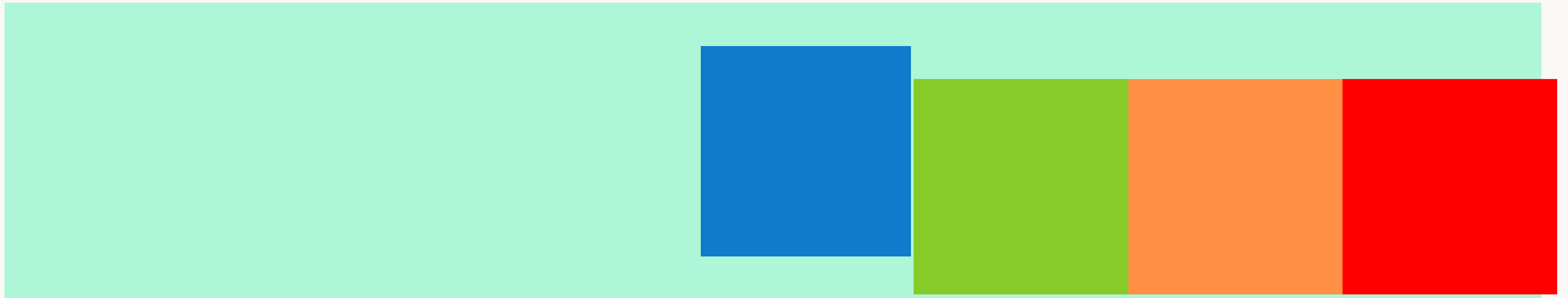


# JUSTIFY CONTENT



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

# JUSTIFY CONTENT



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

# JUSTIFY CONTENT



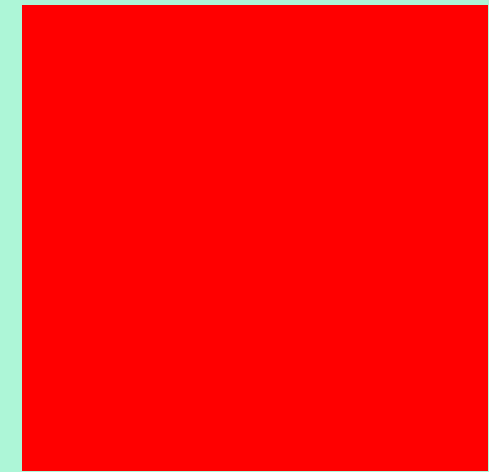
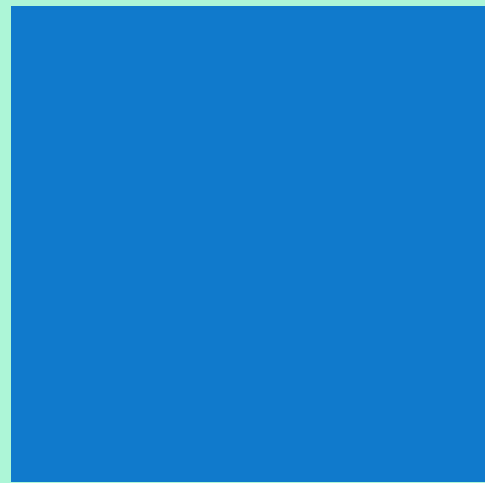
```
justify-content: center;
```

# JUSTIFY CONTENT



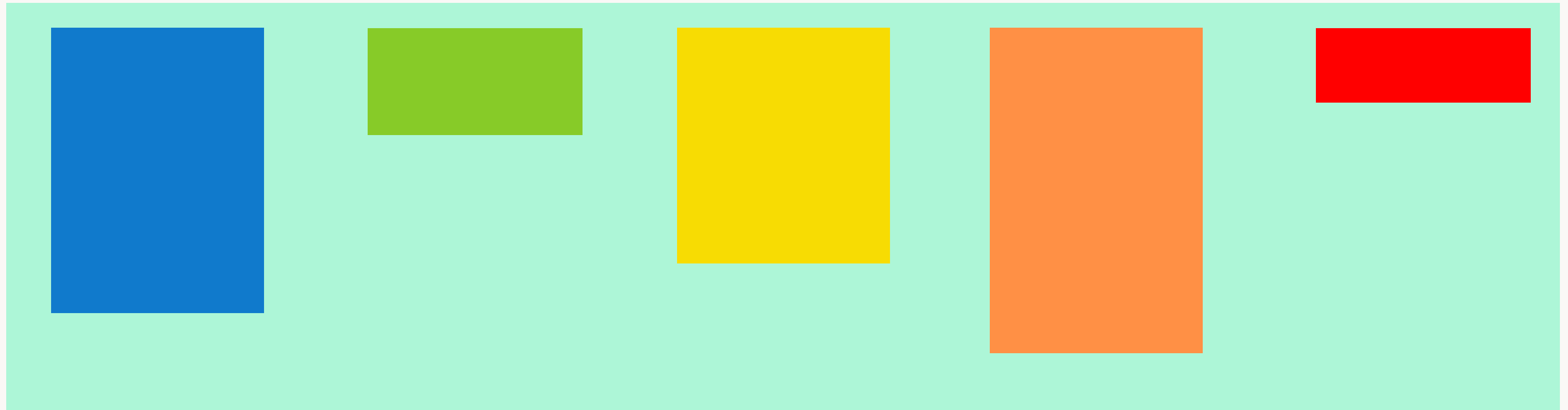
```
justify-content: space-between;
```

# JUSTIFY CONTENT



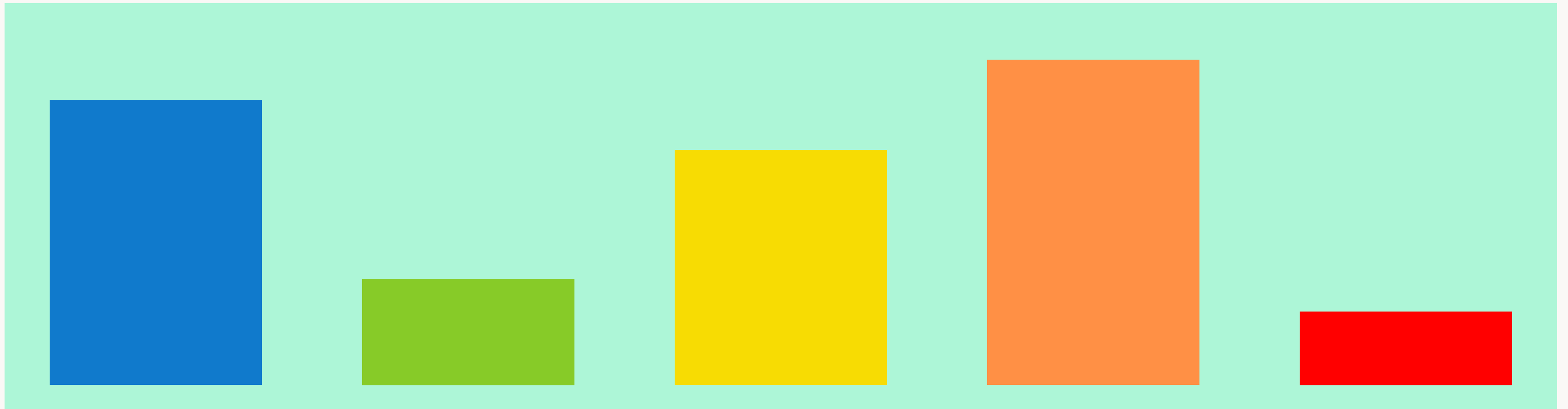
```
justify-content: space-around;
```

# ALIGN ITEMS



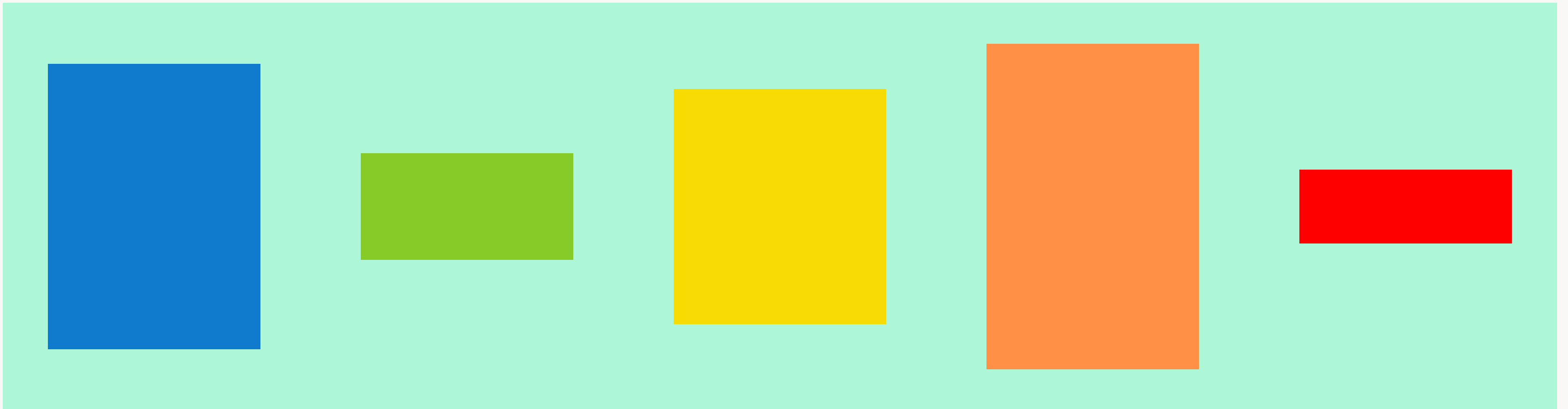
```
align-items: flex-start;
```

# ALIGN ITEMS



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

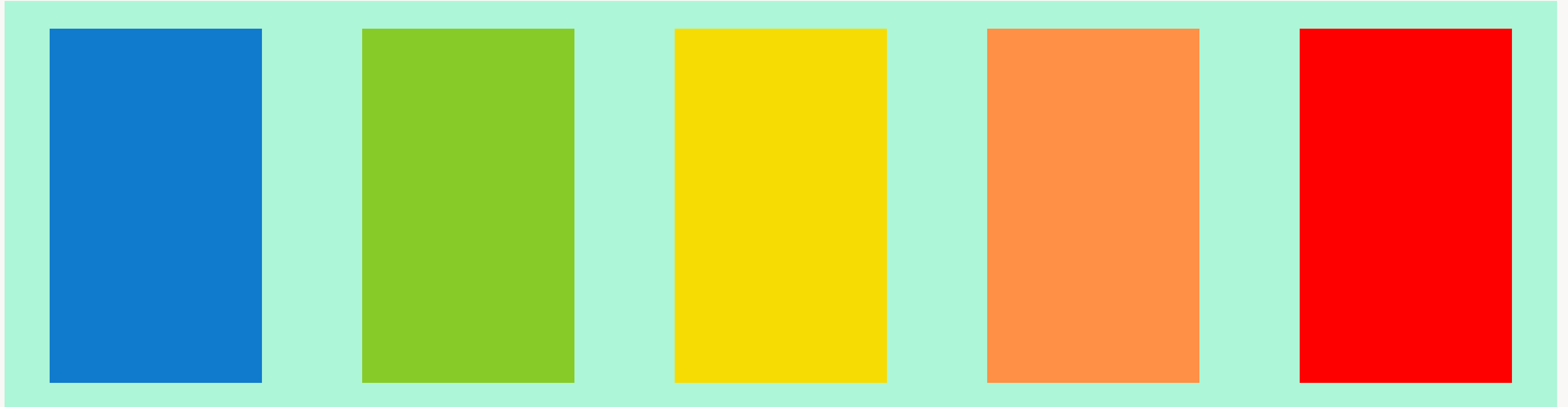
# ALIGN ITEMS



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

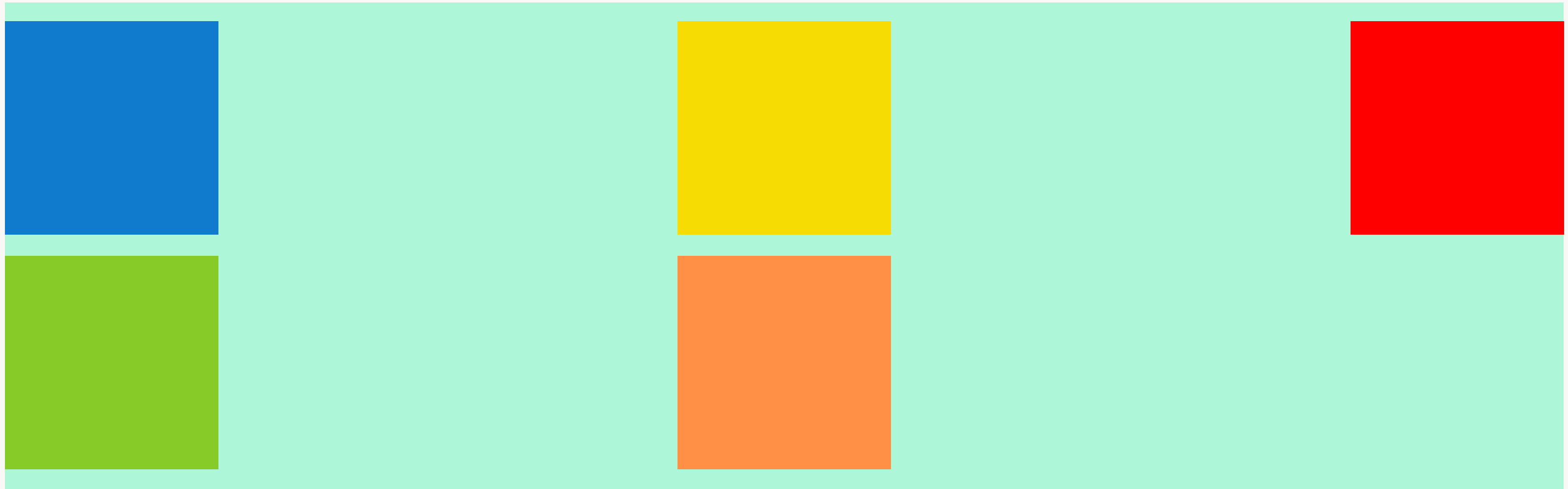


# ALIGN ITEMS



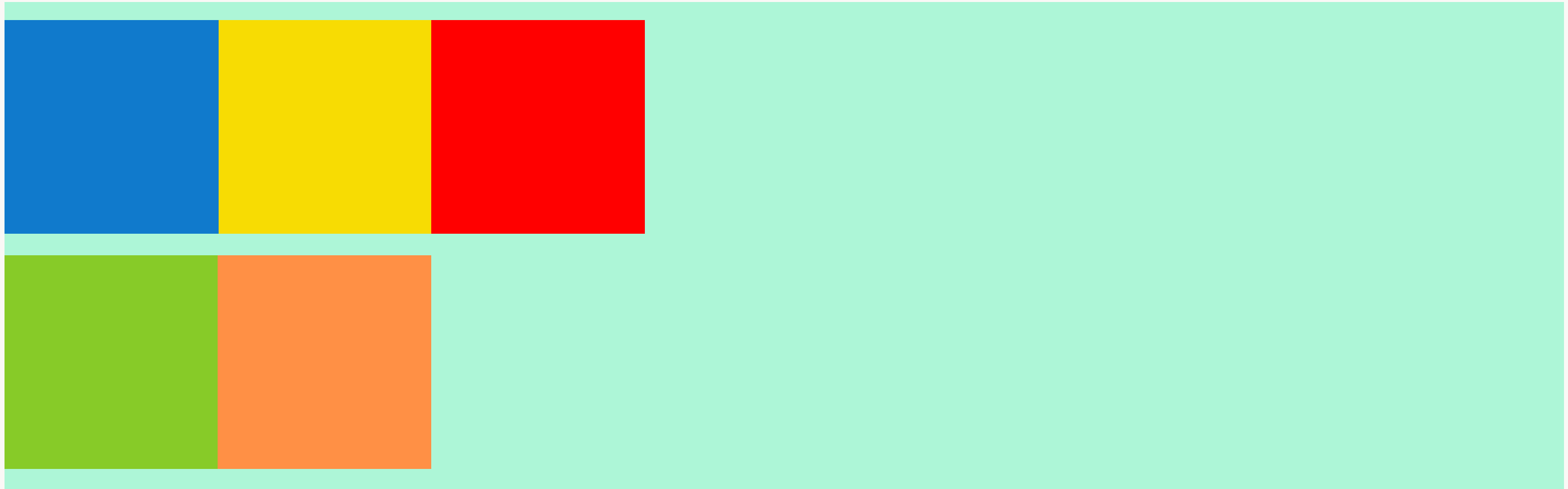
```
align-items: stretch;
```

# ALIGN CONTENT



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

# ALIGN CONTENT



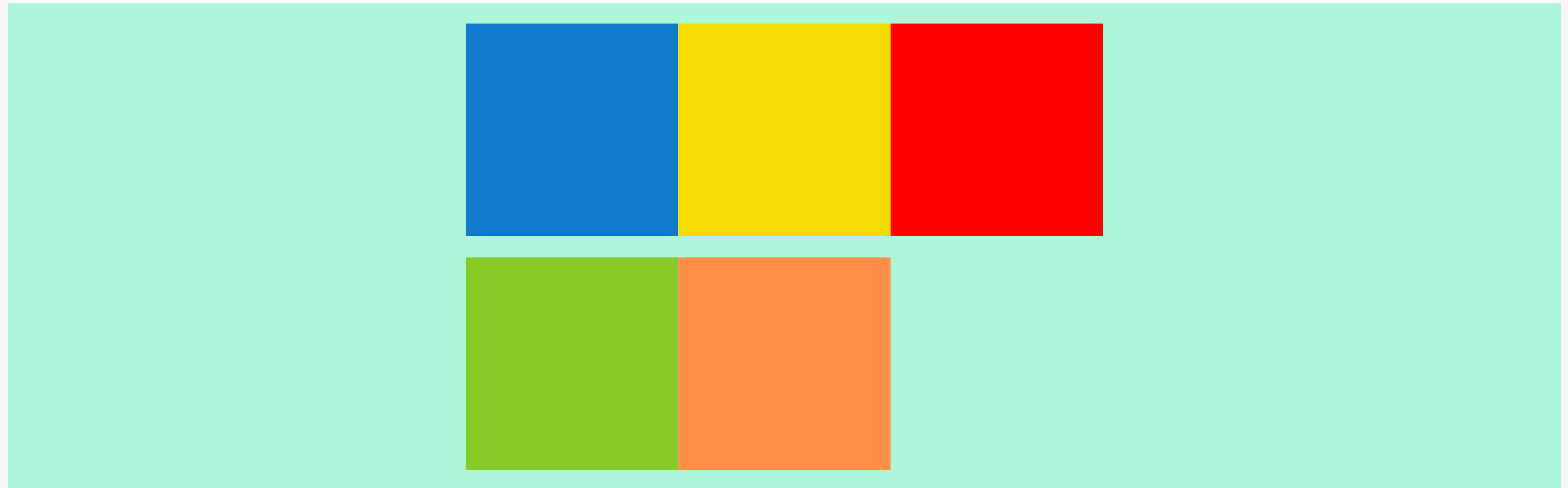
```
align-content: flex-start;
```

# ALIGN CONTENT



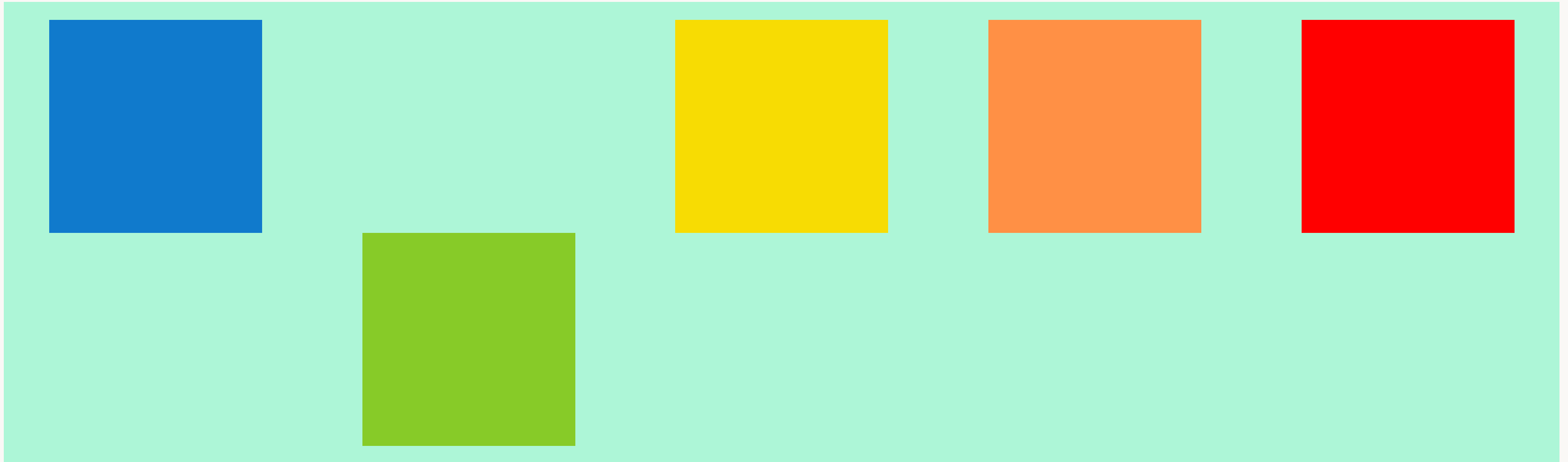
```
align-content: flex-end;
```

# 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