

FLEXBOX ALIGNMENT & JUSTIFICATION



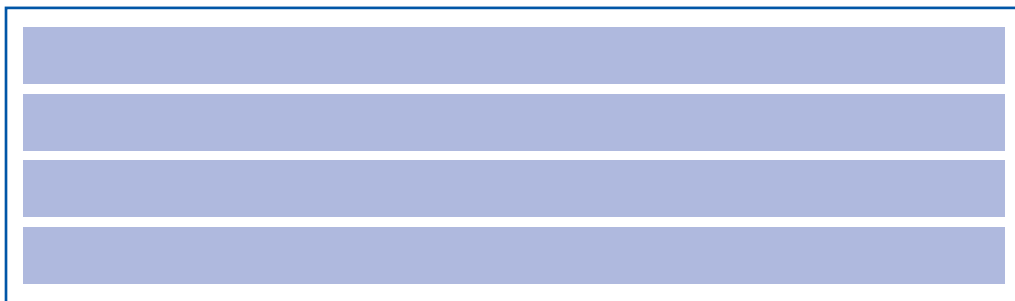
flex-container



flex-item

```
<div class="parent">
  <div class="child"></div>
  <div class="child"></div>
  <div class="child"></div>
  <div class="child"></div>
</div>
```

Default behaviour - no flex applied



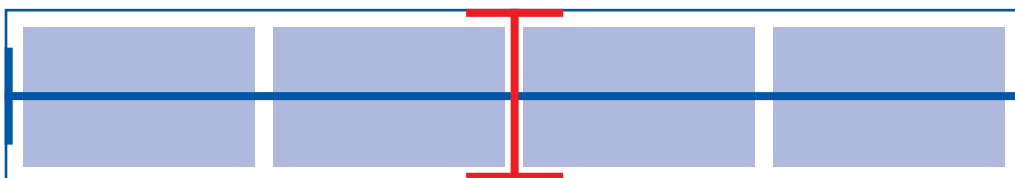
```
parent {
  display: flex;
}
```

When you change the parent to display: flex, the children shrink to the size of the content inside them, and stack up next to each other, making columns



main-axis
cross-axis

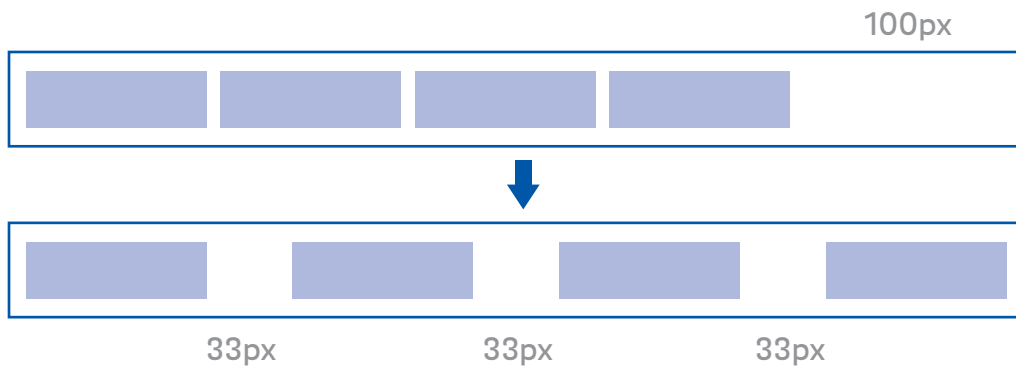
When we declare display: flex, there are two axis. The main-axis, and cross-axis. We can change these with flex-direction, but by default the main-axis is horizontal, and cross-axis is vertical (more on flex-direction on the last page of this document).



FLEXBOX ALIGNMENT & JUSTIFICATION

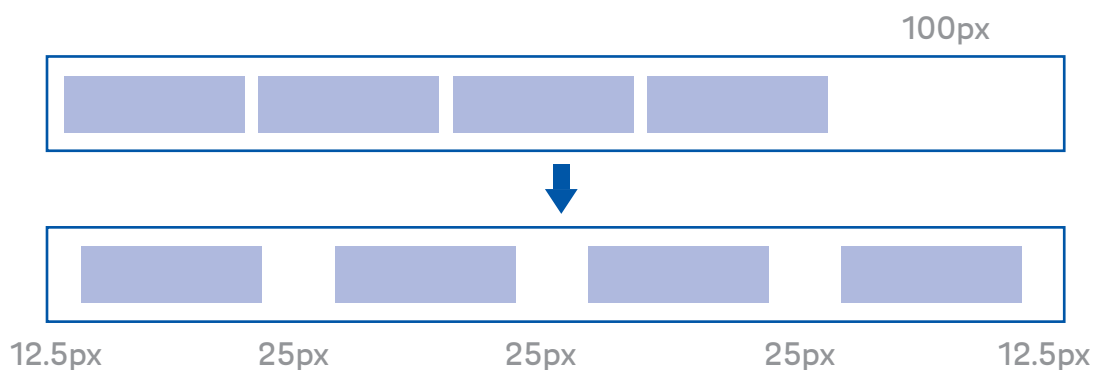
```
parent {  
  display: flex;  
  justify-content: space-between;  
}
```

This takes the available space on the main-axis, and puts it between the children.



```
parent {  
  display: flex;  
  justify-content: space-around;  
}
```

This takes the available space on the main-axis, and puts it around the children.



FLEXBOX ALIGNMENT & JUSTIFICATION

```
parent {  
  display: flex;  
  justify-content: flex-start;  
}
```

This pushes all the children to the start of the main-axis (default behaviour)



```
parent {  
  display: flex;  
  justify-content: flex-end;  
}
```

This pushes all the children to the end of the main-axis



```
parent {  
  display: flex;  
  justify-content: center;  
}
```

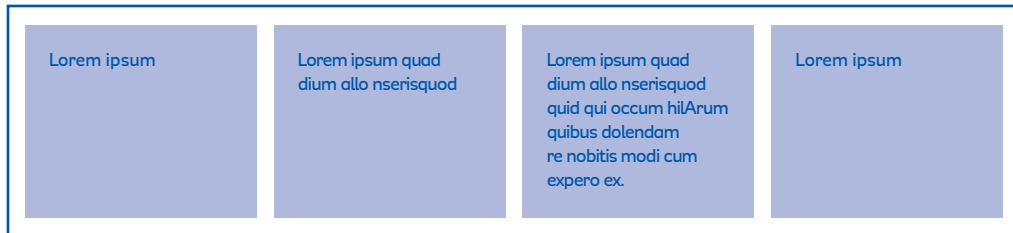
This centers all the children along the main-axis



FLEXBOX ALIGNMENT & JUSTIFICATION

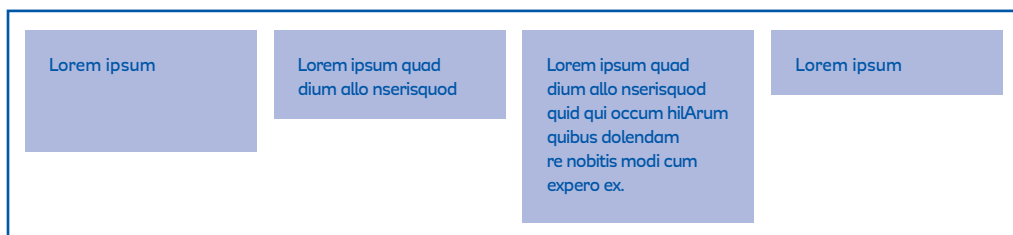
```
parent {  
  display: flex;  
  align-items: stretch;  
}
```

The default behavior, causing all elements to have the same size on the cross-axis (height, in the example below)



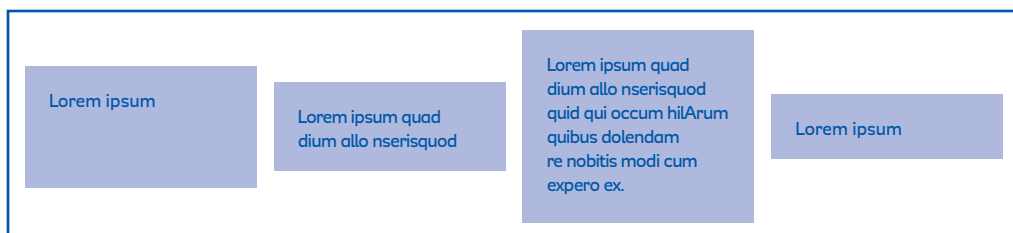
```
parent {  
  display: flex;  
  align-items: flex-start;  
}
```

All the items will have their intrinsic (default) size on the cross-axis, and align along the start of that axis.



```
parent {  
  display: flex;  
  align-items: center;  
}
```

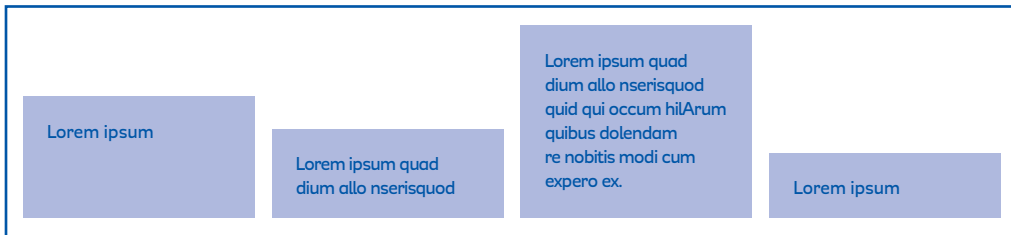
All items will be center aligned along the cross-axis.



FLEXBOX ALIGNMENT & JUSTIFICATION

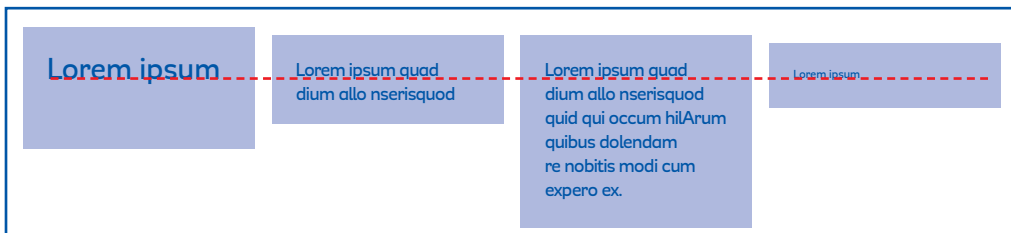
```
parent {  
  display: flex;  
  align-items: flex-end;  
}
```

All the items will have their intrinsic (default) size on the cross-axis, and align along the end of that axis.



```
parent {  
  display: flex;  
  align-items: baseline;  
}
```

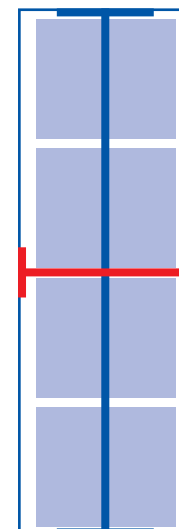
The first line of text for all items will align on the same baseline.



```
parent {  
  display: flex;  
  flex-direction: column;  
}
```

The default flex-direction is row. This is on the parent, so the parent is a row, and the children are columns. When we declare flex-direction: column, the parent is a column, and the children become rows.

This also changes the main- and cross-axis, meaning align-items now works horizontally, and justify-content now works vertically.



main-axis
cross-axis