

# flex items have sizes They have a "favorite" size They know how to shrink from that and how to grow from that flexBasis flexShrink flexGrow

flexBasis is that favorite size	
When flexDirection: 'row'	When flexDirection: 'column'
flexBasis == width	flexBasis == height
width == width     height == height	<ul><li>width == width</li><li>height == height</li></ul>

## Sizes of the items

- flexBasis = the item's "favorite" size.
- If the viewport is increased from flex-basis ...
- flexGrow = by how much it grows
   unitless a relative number
- if the viewport is <u>decreased</u> from flex-basis ...
- flexShrink= by how much it shrinks
   unitless a relative number

# To have <u>fixed</u> widths/heights, set flexBasis on each item

```
.anItem {
  flexBasis: 150;
```



```
item1:{
                         To have <u>relative</u>
  flexGrow: 3;
                          widths/heights
}
                           set flexGrow/
item2:{
  flexGrow: 1;
                           flexShrink on
}
                             each item
item3:{
  flexGrow: 2;
                               These numbers are
}
                             unitless and relative to
                                 one another
```

# A single number is a shorthand

If you provide a flex property to elements in the same container, and that has a number, then those numbers are compared and allocated the free space available.

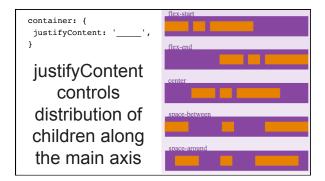
```
Const styles = {
    container: {flex: 1,},
    box1: {flex: 1,
    backgroundColor: 'red',},

}

<View style={styles.container}>
</View style={styles.box1} />
</View>
```

```
const styles = {
    container: {flex: 1,}
    box1: {flex: 1,
    backgroundColor: 'red',},
    box2: {flex: 1,
    backgroundColor: 'orange',},
}
```





### tl;dr

- React Native layouts are handled with a framework that mimics some features of CSS flex layouts
- The learning curve for flexbox is high
- To put things side-by-side, you put them in a container with a flexDirection of 'row'
- Then they will share the space in that row based on
  flexBasis their preferred size
  flexGrow If there's extra space, how do they share it?
  flexShrink Not enough space? How do they donate it?
- "flex: <number>" is a shortcut for flexBasis, flexGrow, and flexShrink  $\,$