

# The Full React Native Layout Cheat Sheet

A simple visual guide with live examples for all major React Native layout properties



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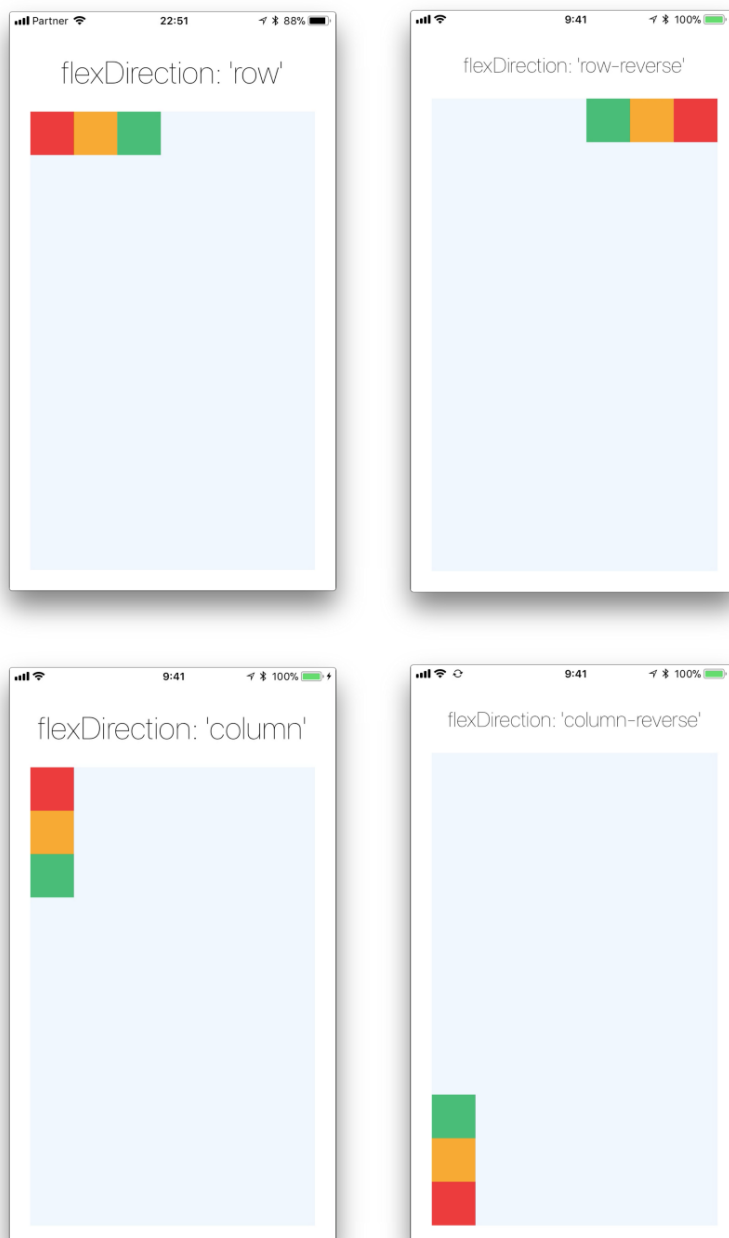
As a newbie in React Native I found myself time after time going back to [React Native layout docs](#), struggling to understand and master the difference between all the different props. `justify` vs `align`, `relative` vs `absolute`, `items` vs `content`, It was all very confusing... 😞

So I prepared this visual guide with all of the important props, including some playgrounds where you can play around with them. I hope that it will help you during the learning process or just as a cheat sheet when you will want to refresh your memory.

## flexDirection

```
'column'/'column-reverse'/'row'/'row-reverse'
```

Defines the direction of the main axis. Opposite to the web, React Native default `flexDirection` is `column` which makes sense, most mobile apps much more vertically oriented.



Try it out

## flex

`flex` will define how your items are going to “fight” over the available space along your primary axis. Most of the time you will want your app container to be `flex:1` to take all of the screen height. Space will be divided according to each element `flex` property. In the following example the red, yellow and the green views are all children in the container view that got `flex:1`. The red view got `flex:1`, the yellow view got `flex:2` and the green view got `flex:3`.  $1+2+3=6$  which means that red view will get  $1/6$  of the space, the yellow  $2/6$  of the space and the red  $3/6$  of the space. I think you got it...



Try it out

## justifyContent

```
'flex-start'/'flex-end'/'center'/'space-between'/'space-around'
```

Determines the **distribution** of children along the **primary axis**. The term “justify” actually comes from the print world. The lines in a newspaper article fill the space evenly and form a straight edge at the margins which gives the article a more organized layout and helps the reader to move more smoothly between the lines of text. It was actually very hard to do that back in the days where we didn't have any computers.



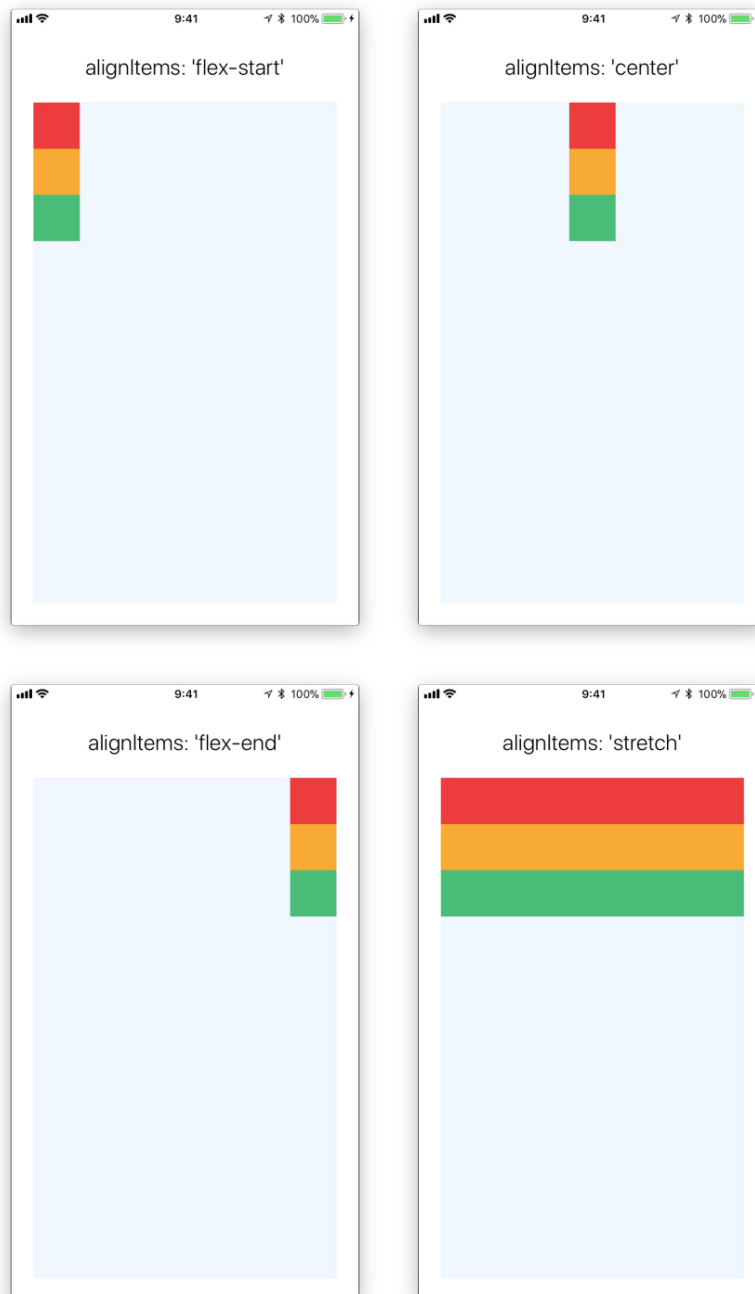
- The default value is `flex-start`

Try it out

## alignItems

`'flex-start', 'flex-end', 'center', 'stretch'`

Align items along the **cross** axis. So in a default view, it will control the horizontal alignment of items.



- `stretch` wouldn't work if you have a specific `width`
- If you don't have a specific `width` `flex-start` and `flex-end` wouldn't understand what to do...

Try it out

## alignSelf

`'flex-start', 'flex-end', 'center', 'stretch'`

align an item along the **cross axis** overwriting his **parent** `alignItem` property

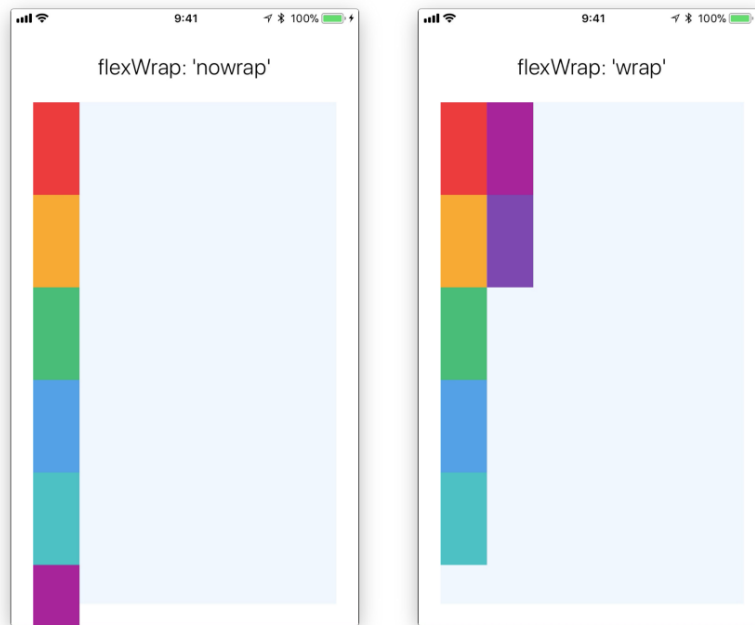


[Try it out](#)

## flexWrap

`'wrap', 'nowrap'`

Controls whether flex items are forced on a single line or can be wrapped on multiple lines.



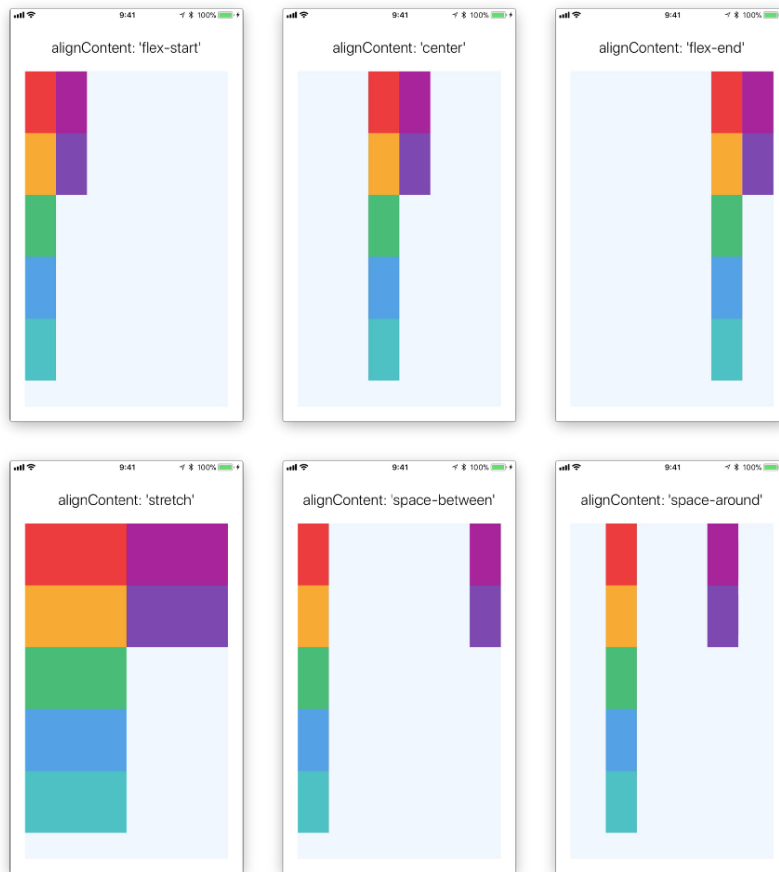
- The default value is `nowrap`

Try it out

## alignContent

`'flex-start' / 'center' / 'flex-end' / 'stretch' / 'space-between' / 'space-around'`

So if you went with `flexWrap: 'wrap'` you have multiple lines of items, this property will help you align the lines on the cross-axis.



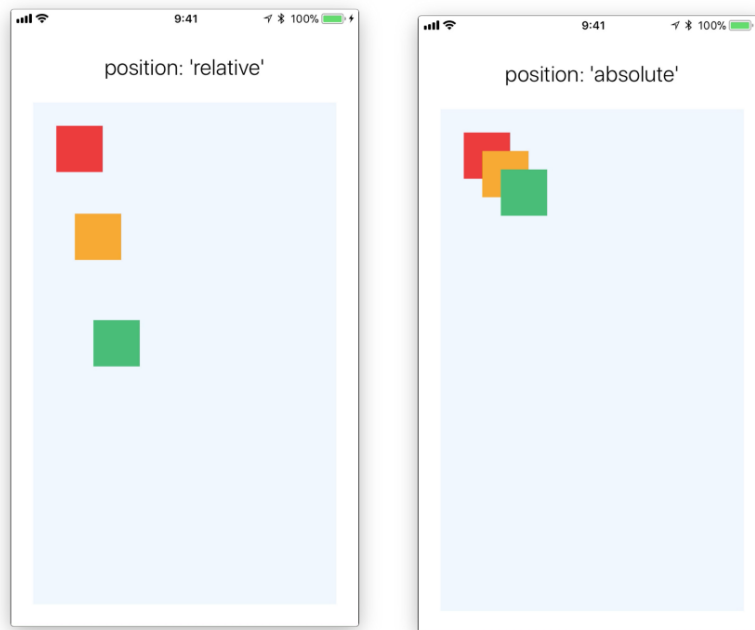
Try it out

## position

```
'relative'/'absolute'
```

Think of your container as a line of people. And you are telling each person to stand 5 meters behind the person in front of him (marginTop: 5). If this person is set to `relative` he will respect the line and will position himself relatively to the person in front of him. If this person is set to `absolute` he will ignore all of the people in the line and will position himself as if the line was empty, 5 meters from where the line (his parent container) starts.



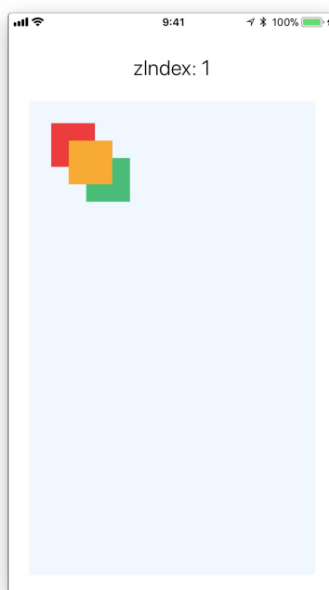


- The default value is `relative`

Try it out

## zIndex

You can control which components display on top of others. In the following example the `zIndex` of the yellow square to 1.



Try it out

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React Native is still lagging behind the capabilities that we have on the web. But mixing and matching all of the properties above will give you almost any layout you want. so go wild.

I Hope that these examples helped you to nail down those properties in your head.

