

Layout Props

More detailed examples about those properties can be found on the [Layout with Flexbox](#) page.

Example

The following example shows how different properties can affect or shape a React Native layout. You can try for example to add or remove squares from the UI while changing the values of the property `flexWrap`.

TypeScript

JavaScript

LayoutProps Example

^ Expo

```
import React, {useState} from 'react';
import {
  Button,
  ScrollView,
  StatusBar,
  StyleSheet,
  Text,
  View,
} from 'react-native';

const App = () => {
  const flexDirections = [
    'row',
    'row-reverse',
    'column',
    'column-reverse',
  ] as const;
  const justifyContents = [
    'flex-start',
    'flex-end',
    'center',
    'space-between',
    'space-around',
    'space-evenly',
  ] as const;
  const alignItemsArr = [
```

Preview



My Device

iOS

Android

Web

Reference

Props

alignContent

`alignContent` controls how rows align in the cross direction, overriding the `alignContent` of the parent. See <https://developer.mozilla.org/en-US/docs/Web/CSS/align-content> for more details.

TYPE	REQUIRED
enum('flex-start', 'flex-end', 'center', 'stretch', 'space-between', 'space-around')	No

alignItems

`alignItems` aligns children in the cross direction. For example, if children are flowing vertically, `alignItems` controls how they align horizontally. It works like `align-items` in CSS (default: stretch). See <https://developer.mozilla.org/en-US/docs/Web/CSS/align-items> for more details.

TYPE	REQUIRED
enum('flex-start', 'flex-end', 'center', 'stretch', 'baseline')	No

alignSelf

`alignSelf` controls how a child aligns in the cross direction, overriding the `alignItems` of the parent. It works like `align-self` in CSS (default: auto). See <https://developer.mozilla.org/en-US/docs/Web/CSS/align-self> for more details.

TYPE	REQUIRED
enum('auto', 'flex-start', 'flex-end', 'center', 'stretch', 'baseline')	No

aspectRatio

Aspect ratio controls the size of the undefined dimension of a node. See <https://developer.mozilla.org/en-US/docs/Web/CSS/aspect-ratio> for more details.

- On a node with a set width/height, aspect ratio controls the size of the unset dimension
- On a node with a set flex basis, aspect ratio controls the size of the node in the cross axis if unset
- On a node with a measure function, aspect ratio works as though the measure function measures the flex basis
- On a node with flex grow/shrink, aspect ratio controls the size of the node in the cross axis if unset
- Aspect ratio takes min/max dimensions into account

TYPE	REQUIRED
number, string	No

borderBottomWidth

`borderBottomWidth` works like `border-bottom-width` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/border-bottom-width> for more details.

TYPE	REQUIRED
number	No

borderEndWidth

When direction is `ltr`, `borderEndWidth` is equivalent to `borderRightWidth`. When direction is `rtl`, `borderEndWidth` is equivalent to `borderLeftWidth`.

TYPE	REQUIRED
number	No

borderLeftWidth

`borderLeftWidth` works like `border-left-width` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/border-left-width> for more details.

TYPE	REQUIRED
number	No

borderRightWidth

`borderRightWidth` works like `border-right-width` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/border-right-width> for more details.

TYPE	REQUIRED
number	No

borderStartWidth

When direction is `ltr`, `borderStartWidth` is equivalent to `borderLeftWidth`. When direction is `rtl`, `borderStartWidth` is equivalent to `borderRightWidth`.

TYPE	REQUIRED
number	No

borderTopWidth

`borderTopWidth` works like `border-top-width` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/border-top-width> for more details.

TYPE	REQUIRED
number	No

borderWidth

`borderWidth` works like `border-width` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/border-width> for more details.

TYPE	REQUIRED
number	No

bottom

`bottom` is the number of logical pixels to offset the bottom edge of this component.

It works similarly to `bottom` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported.

See <https://developer.mozilla.org/en-US/docs/Web/CSS/bottom> for more details of how `bottom` affects layout.

TYPE	REQUIRED
number, string	No

columnGap

`columnGap` works like `column-gap` in CSS. Only pixel units are supported in React Native. See <https://developer.mozilla.org/en-US/docs/Web/CSS/column-gap> for more details.

TYPE	REQUIRED
number	No

direction

`direction` specifies the directional flow of the user interface. The default is `inherit`, except for root node which will have value based on the current locale. See <https://yogalayout.com/docs/layout-direction> for more details.

TYPE	REQUIRED	PLATFORM
enum('inherit', 'ltr', 'rtl')	No	iOS

display

`display` sets the display type of this component.

It works similarly to `display` in CSS but only supports 'flex' and 'none'. 'flex' is the default.

TYPE	REQUIRED
enum('none', 'flex')	No

end

When the direction is `ltr`, `end` is equivalent to `right`. When the direction is `rtl`, `end` is equivalent to `left`.

This style takes precedence over the `left` and `right` styles.

TYPE	REQUIRED
number, string	No

flex

In React Native `flex` does not work the same way that it does in CSS. `flex` is a number rather than a string, and it works according to the [Yoga](#) layout engine.

When `flex` is a positive number, it makes the component flexible, and it will be sized proportional to its flex value. So a component with `flex` set to 2 will take twice the space as a component with `flex` set to 1. `flex: <positive number>` equates to `flexGrow: <positive number>, flexShrink: 1, flexBasis: 0`.

When `flex` is 0, the component is sized according to `width` and `height`, and it is inflexible.

When `flex` is -1, the component is normally sized according to `width` and `height`. However, if there's not enough space, the component will shrink to its `minWidth` and `minHeight`.

`flexGrow`, `flexShrink`, and `flexBasis` work the same as in CSS.

TYPE	REQUIRED
number	No

flexBasis

`flexBasis` is an axis-independent way of providing the default size of an item along the main axis. Setting the `flexBasis` of a child is similar to setting the `width` of that child if its parent is a container with `flexDirection: row` or setting the `height` of a child if its parent is a container with `flexDirection: column`. The `flexBasis` of an item is the default size of that item, the size of the item before any `flexGrow` and `flexShrink` calculations are performed.

TYPE	REQUIRED
number, string	No

flexDirection

`flexDirection` controls which directions children of a container go. `row` goes left to right, `column` goes top to bottom, and you may be able to guess what the other two do. It works like `flex-direction` in CSS, except the default is `column`. See <https://developer.mozilla.org/en-US/docs/Web/CSS/flex-direction> for more details.

TYPE	REQUIRED
enum('row', 'row-reverse', 'column', 'column-reverse')	No

flexGrow

`flexGrow` describes how any space within a container should be distributed among its children along the main axis. After laying out its children, a container will distribute any remaining space according to the flex grow values specified by its children.

`flexGrow` accepts any floating point value ≥ 0 , with 0 being the default value. A container will distribute any remaining space among its children weighted by the children's `flexGrow` values.

TYPE	REQUIRED
number	No

flexShrink

`flexShrink` describes how to shrink children along the main axis in the case in which the total size of the children overflows the size of the container on the main axis. `flexShrink` is very similar to `flexGrow` and can be thought of in the same way if any overflowing size is

considered to be negative remaining space. These two properties also work well together by allowing children to grow and shrink as needed.

`flexShrink` accepts any floating point value ≥ 0 , with 0 being the default value. A container will shrink its children weighted by the children's `flexShrink` values.

TYPE	REQUIRED
number	No

flexWrap

`flexWrap` controls whether children can wrap around after they hit the end of a flex container. It works like `flex-wrap` in CSS (default: `nowrap`). See <https://developer.mozilla.org/en-US/docs/Web/CSS/flex-wrap> for more details. Note it does not work anymore with `alignItems: stretch` (the default), so you may want to use `alignItems: flex-start` for example (breaking change details: <https://github.com/facebook/react-native/releases/tag/v0.28.0>).

TYPE	REQUIRED
enum('wrap', 'nowrap', 'wrap-reverse')	No

gap

`gap` works like `gap` in CSS. Only pixel units are supported in React Native. See <https://developer.mozilla.org/en-US/docs/Web/CSS/gap> for more details.

TYPE	REQUIRED
number	No

height

`height` sets the height of this component.

It works similarly to `height` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported. See <https://developer.mozilla.org/en-US/docs/Web/CSS/height> for more details.

TYPE	REQUIRED
number, string	No

justifyContent

`justifyContent` aligns children in the main direction. For example, if children are flowing vertically, `justifyContent` controls how they align vertically. It works like `justify-content` in CSS (default: `flex-start`). See <https://developer.mozilla.org/en-US/docs/Web/CSS/justify-content> for more details.

TYPE	REQUIRED
enum('flex-start', 'flex-end', 'center', 'space-between', 'space-around', 'space-evenly')	No

left

`left` is the number of logical pixels to offset the left edge of this component.

It works similarly to `left` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported.

See <https://developer.mozilla.org/en-US/docs/Web/CSS/left> for more details of how `left` affects layout.

TYPE	REQUIRED
number, string	No

margin

Setting `margin` has the same effect as setting each of `marginTop`, `marginLeft`, `marginBottom`, and `marginRight`. See <https://developer.mozilla.org/en-US/docs/Web/CSS/margin> for more details.

TYPE	REQUIRED
number, string	No

marginBottom

`marginBottom` works like `margin-bottom` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/margin-bottom> for more details.

TYPE	REQUIRED
number, string	No

marginEnd

When `direction` is `ltr`, `marginEnd` is equivalent to `marginRight`. When `direction` is `rtl`, `marginEnd` is equivalent to `marginLeft`.

TYPE	REQUIRED
number, string	No

marginHorizontal

Setting `marginHorizontal` has the same effect as setting both `marginLeft` and `marginRight`.

TYPE	REQUIRED
number, string	No

marginLeft

`marginLeft` works like `margin-left` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/margin-left> for more details.

TYPE	REQUIRED
number, string	No

marginRight

`marginRight` works like `margin-right` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/margin-right> for more details.

TYPE	REQUIRED
number, string	No

marginStart

When `direction` is `ltr`, `marginStart` is equivalent to `marginLeft`. When `direction` is `rtl`, `marginStart` is equivalent to `marginRight`.

TYPE	REQUIRED
number, string	No

marginTop

`marginTop` works like `margin-top` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/margin-top> for more details.

TYPE	REQUIRED
number, string	No

`marginVertical`

Setting `marginVertical` has the same effect as setting both `marginTop` and `marginBottom`.

TYPE	REQUIRED
number, string	No

`maxHeight`

`maxHeight` is the maximum height for this component, in logical pixels.

It works similarly to `max-height` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported.

See <https://developer.mozilla.org/en-US/docs/Web/CSS/max-height> for more details.

TYPE	REQUIRED
number, string	No

`maxWidth`

`maxWidth` is the maximum width for this component, in logical pixels.

It works similarly to `max-width` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported.

See <https://developer.mozilla.org/en-US/docs/Web/CSS/max-width> for more details.

TYPE	REQUIRED
number, string	No

minHeight

`minHeight` is the minimum height for this component, in logical pixels.

It works similarly to `min-height` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported.

See <https://developer.mozilla.org/en-US/docs/Web/CSS/min-height> for more details.

TYPE	REQUIRED
number, string	No

minWidth

`minWidth` is the minimum width for this component, in logical pixels.

It works similarly to `min-width` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported.

See <https://developer.mozilla.org/en-US/docs/Web/CSS/min-width> for more details.

TYPE	REQUIRED
number, string	No

overflow

`overflow` controls how children are measured and displayed. `overflow: hidden` causes views to be clipped while `overflow: scroll` causes views to be measured independently of their parents' main axis. It works like `overflow` in CSS (default: visible). See <https://developer.mozilla.org/en/docs/Web/CSS/overflow> for more details.

TYPE	REQUIRED
enum('visible', 'hidden', 'scroll')	No

padding

Setting `padding` has the same effect as setting each of `paddingTop`, `paddingBottom`, `paddingLeft`, and `paddingRight`. See <https://developer.mozilla.org/en-US/docs/Web/CSS/padding> for more details.

TYPE	REQUIRED
number, string	No

paddingBottom

`paddingBottom` works like `padding-bottom` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/padding-bottom> for more details.

TYPE	REQUIRED
number, string	No

paddingEnd

When `direction` is `ltr`, `paddingEnd` is equivalent to `paddingRight`. When `direction` is `rtl`, `paddingEnd` is equivalent to `paddingLeft`.

TYPE	REQUIRED
number, string	No

paddingHorizontal

Setting `paddingHorizontal` is like setting both of `paddingLeft` and `paddingRight`.

TYPE	REQUIRED
number, string	No

paddingLeft

`paddingLeft` works like `padding-left` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/padding-left> for more details.

TYPE	REQUIRED
number, string	No

paddingRight

`paddingRight` works like `padding-right` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/padding-right> for more details.

TYPE	REQUIRED
number, string	No

paddingStart

When `direction` is `ltr`, `paddingStart` is equivalent to `paddingLeft`. When `direction` is `rtl`, `paddingStart` is equivalent to `paddingRight`.

TYPE	REQUIRED
number, string	No

paddingTop

`paddingTop` works like `padding-top` in CSS. See <https://developer.mozilla.org/en-US/docs/Web/CSS/padding-top> for more details.

TYPE	REQUIRED
number, ,string	No

paddingVertical

Setting `paddingVertical` is like setting both of `paddingTop` and `paddingBottom`.

TYPE	REQUIRED
number, string	No

position

`position` in React Native is similar to regular CSS, but everything is set to `relative` by default, so `absolute` positioning is always relative to the parent.

If you want to position a child using specific numbers of logical pixels relative to its parent, set the child to have `absolute` position.

If you want to position a child relative to something that is not its parent, don't use styles for that. Use the component tree.

See <https://github.com/facebook/yoga> for more details on how `position` differs between React Native and CSS.

TYPE	REQUIRED
<code>enum('absolute', 'relative')</code>	No

right

`right` is the number of logical pixels to offset the right edge of this component.

It works similarly to `right` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported.

See <https://developer.mozilla.org/en-US/docs/Web/CSS/right> for more details of how `right` affects layout.

TYPE	REQUIRED
<code>number, string</code>	No

rowGap

`rowGap` works like `row-gap` in CSS. Only pixel units are supported in React Native. See <https://developer.mozilla.org/en-US/docs/Web/CSS/row-gap> for more details.

TYPE	REQUIRED
<code>number</code>	No

start

When the direction is `ltr`, `start` is equivalent to `left`. When the direction is `rtl`, `start` is equivalent to `right`.

This style takes precedence over the `left`, `right`, and `end` styles.

TYPE	REQUIRED
number, string	No

top

`top` is the number of logical pixels to offset the top edge of this component.

It works similarly to `top` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported.

See <https://developer.mozilla.org/en-US/docs/Web/CSS/top> for more details of how `top` affects layout.

TYPE	REQUIRED
number, string	No

width

`width` sets the width of this component.

It works similarly to `width` in CSS, but in React Native you must use points or percentages. Ems and other units are not supported. See <https://developer.mozilla.org/en-US/docs/Web/CSS/width> for more details.

TYPE	REQUIRED
number, string	No

zIndex

`zIndex` controls which components display on top of others. Normally, you don't use `zIndex`. Components render according to their order in the document tree, so later components draw over earlier ones. `zIndex` may be useful if you have animations or custom modal interfaces where you don't want this behavior.

It works like the CSS `z-index` property - components with a larger `zIndex` will render on top. Think of the `z`-direction like it's pointing from the phone into your eyeball. See <https://developer.mozilla.org/en-US/docs/Web/CSS/z-index> for more details.

On iOS, `zIndex` may require views to be siblings of each other for it to work as expected.

TYPE	REQUIRED
number	No

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