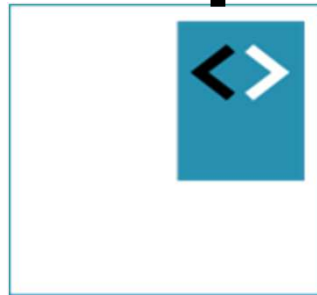


**PROUD  
NERDS**

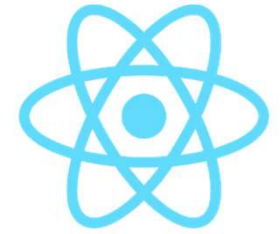
# **React Native**

## **Short recap – day #1**



Peter Kassenaar –  
[info@kassenaar.com](mailto:info@kassenaar.com)

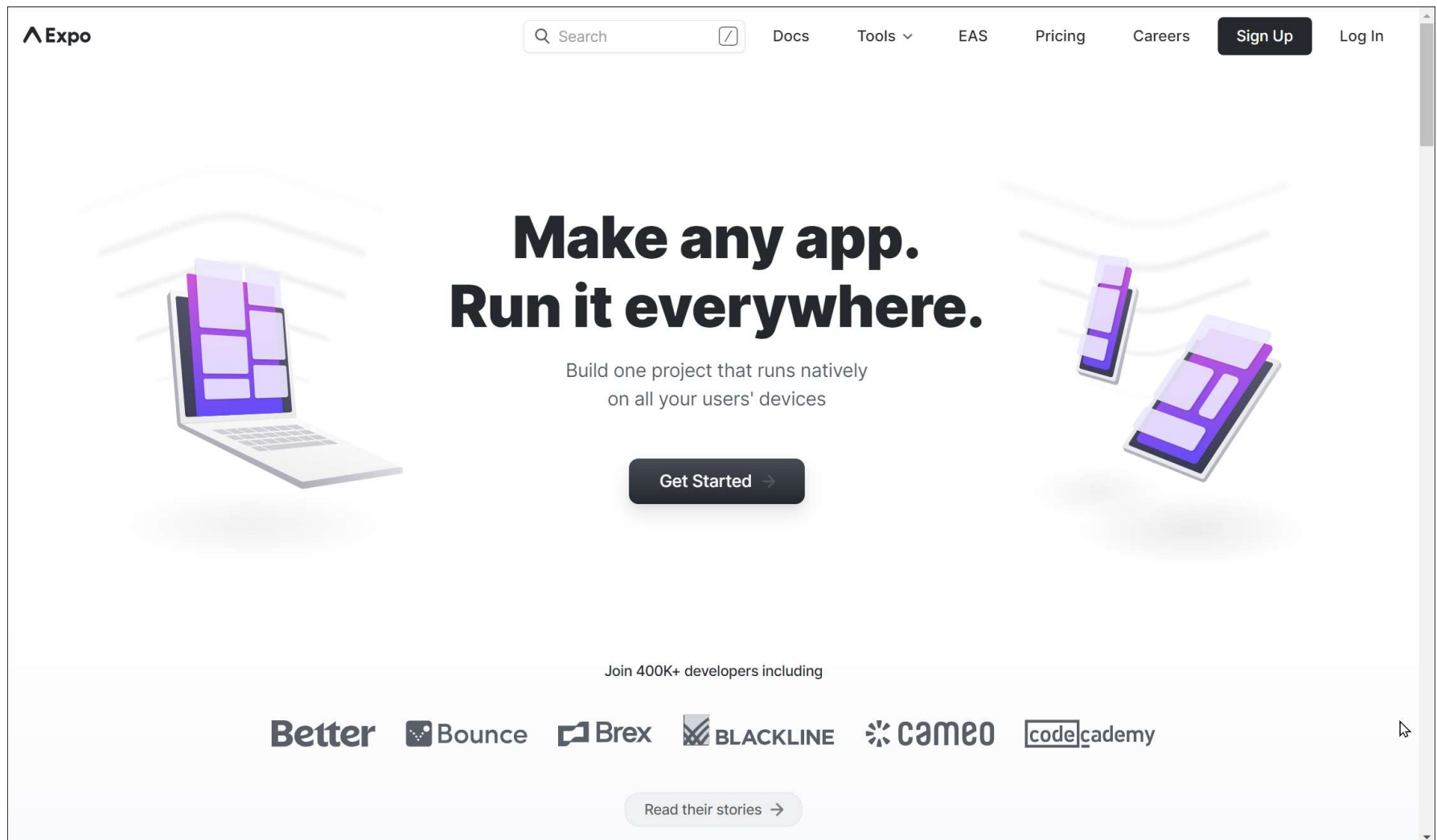
# What is React Native?



- Framework for building cross platform mobile apps.
- Cross platform: Android, iOS, Web
- Features:
  - React concepts like components, state, props, hooks, etc.
  - Device API's like GPS, Camera, contacts, etc.

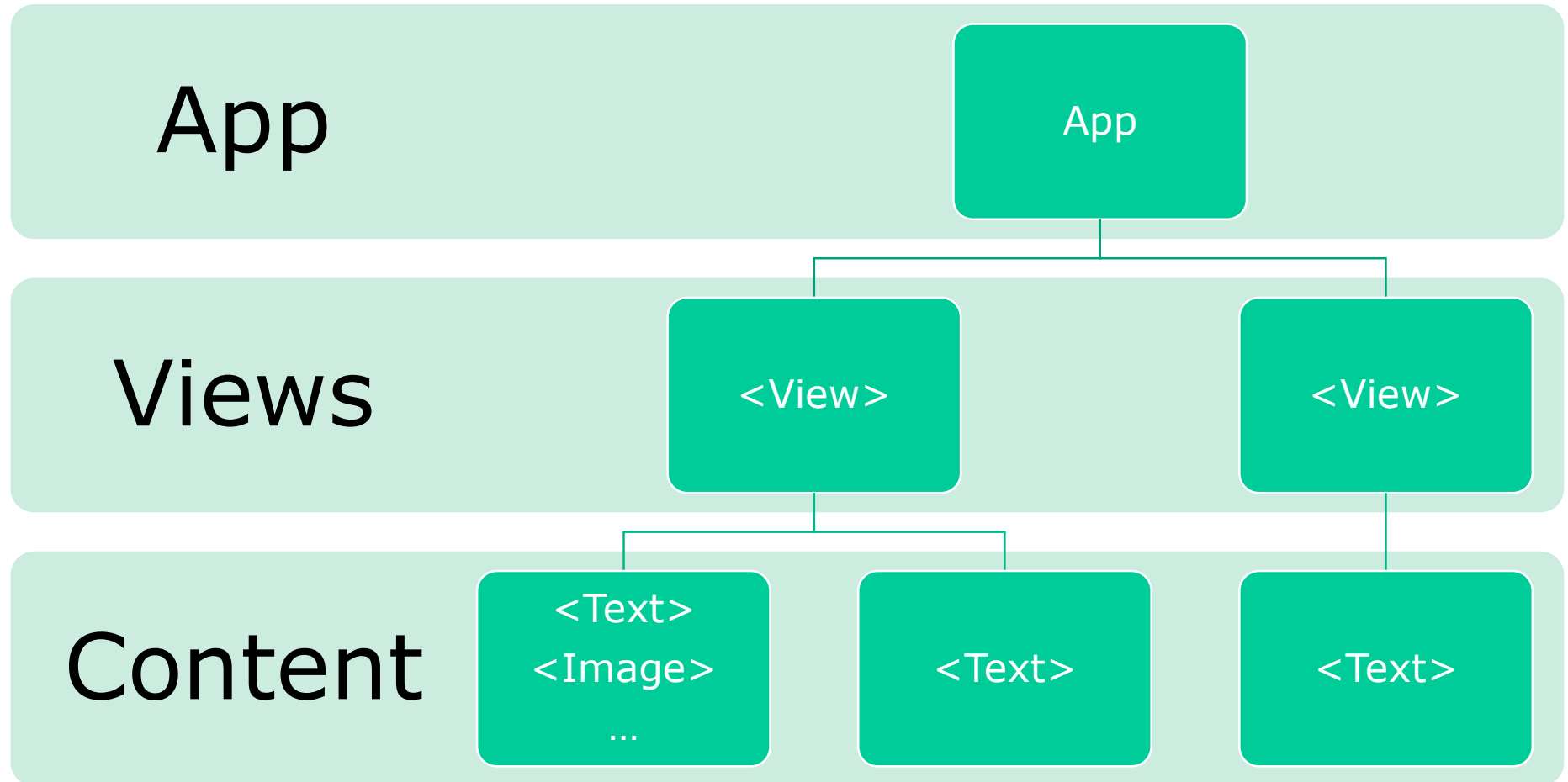
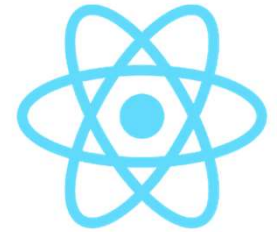


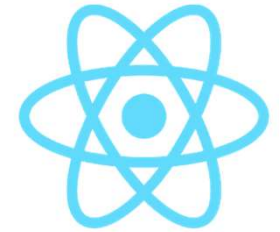
# Our choice: Expo



<https://expo.dev/>

# Apps, just like React: Component Trees

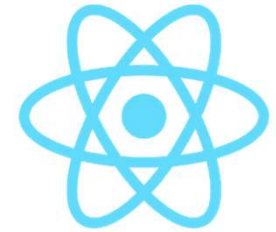




REACT NATIVE UI COMPONENT	ANDROID VIEW	IOS VIEW	WEB ANALOG	DESCRIPTION
<b>&lt;View&gt;</b>	<b>&lt;ViewGroup&gt;</b>	<b>&lt;UIView&gt;</b>	A non-scrolling <b>&lt;div&gt;</b>	A container that supports layout with flexbox, style, some touch handling, and accessibility controls

<b>&lt;Text&gt;</b>	<b>&lt;TextView&gt;</b>	<b>&lt;UITextView&gt;</b>	<b>&lt;p&gt;</b>	Displays, styles, and nests strings of text and even handles touch events
---------------------	-------------------------	---------------------------	------------------	---

# Core Components



- `<View>`
- `<Text>`
- `<Image>`
- `<TextInput>`
- `<ScrollView>`
- `<FlatList>`
- `<Touchable...>`
- `<Pressable>`

A screenshot of the React Native documentation page for 'Core Components and APIs'. On the left, a sidebar lists various components: ActivityIndicator, Button, FlatList, Image, ImageBackground, KeyboardAvoidingView, Modal, Pressable (marked with a 'NEW' tag), RefreshControl, ScrollView, SectionList, StatusBar, Switch, Text, TextInput, TouchableHighlight, TouchableOpacity, TouchableWithoutFeedback, and View. The main content area has the title 'Core Components and APIs' and a paragraph explaining that React Native provides built-in components. It lists categories: Basic Components, User Interface, List Views, Android-specific, iOS-specific, and Others. A note mentions that developers can also use external libraries. The footer of the page lists 'Basic Components' again.

**Core Components**

Core Components and APIs

ActivityIndicator  
Button  
FlatList  
Image  
ImageBackground  
KeyboardAvoidingView  
Modal  
Pressable NEW  
RefreshControl  
ScrollView  
SectionList  
StatusBar  
Switch  
Text  
TextInput  
TouchableHighlight  
TouchableOpacity  
TouchableWithoutFeedback  
View

## Core Components and APIs

React Native provides a number of built-in Core Components ready for you to use in your app. You can find them all in the left sidebar (or menu above, if you are on a narrow screen). If you're not sure where to get started, take a look at the following categories:

- Basic Components
- User Interface
- List Views
- Android-specific
- iOS-specific
- Others

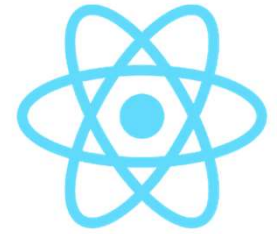
You're not limited to the components and APIs bundled with React Native. React Native has a community of thousands of developers. If you're looking for a library that does something specific, please refer to [this guide about finding libraries](#).

### Basic Components

Basic Components  
User Interface  
List Views  
Android Components and APIs  
iOS Components and APIs  
Others

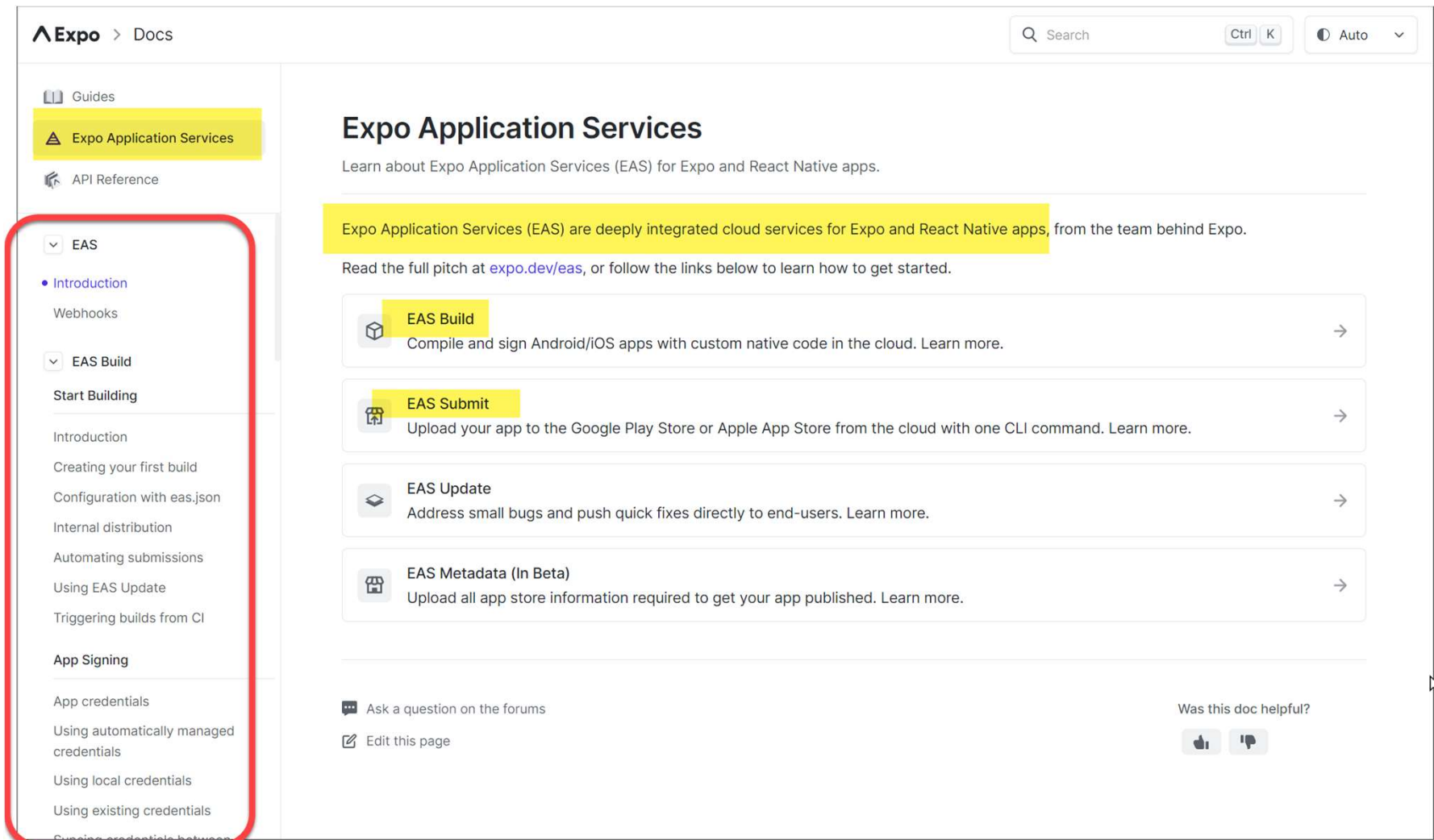
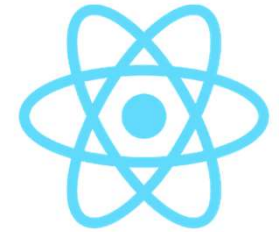
<https://reactnative.dev/docs/components-and-apis>

# Remarks



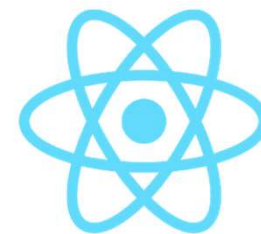
- React Native **Looks Like** React Web, but is different in some places
  - No HTML / JSX
  - StyleSheets act different
  - No shorthand notation in StyleSheets
  - ...
- Sometimes you need to stop and restart the server, while there is no apparent reason to do so...

# Extra – building Expo apps – use EAS

A screenshot of the Expo Application Services (EAS) documentation page. The page is titled "Expo Application Services" and includes a sidebar with a navigation menu. The sidebar menu is highlighted with a red rounded rectangle and contains the following items: "Guides", "Expo Application Services", "API Reference", "EAS" (expanded), "Introduction", "Webhooks", "EAS Build" (expanded), "Start Building", "Introduction", "Creating your first build", "Configuration with eas.json", "Internal distribution", "Automating submissions", "Using EAS Update", "Triggering builds from CI", "App Signing", "App credentials", "Using automatically managed credentials", "Using local credentials", and "Using existing credentials". The main content area is titled "Expo Application Services" and includes a search bar, a "Ctrl K" shortcut, and an "Auto" dropdown. The main content area also features a yellow highlighted section with the text "Expo Application Services (EAS) are deeply integrated cloud services for Expo and React Native apps, from the team behind Expo." and a link to "expo.dev/eas". Below this, there are four cards: "EAS Build" (Compile and sign Android/iOS apps with custom native code in the cloud. Learn more.), "EAS Submit" (Upload your app to the Google Play Store or Apple App Store from the cloud with one CLI command. Learn more.), "EAS Update" (Address small bugs and push quick fixes directly to end-users. Learn more.), and "EAS Metadata (In Beta)" (Upload all app store information required to get your app published. Learn more.). At the bottom, there are links to "Ask a question on the forums" and "Edit this page", and a "Was this doc helpful?" section with thumbs up and down icons.

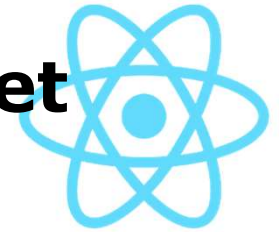
<https://docs.expo.dev/eas/>





*Questions?*

# The Full React Native Layout Cheat Sheet



Published in Wix Engineering

Dror Biran  
Dec 6, 2017 · 4 min read · [Listen](#)

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## The Full React Native Layout Cheat Sheet

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

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'`

[Get started](#) [Sign In](#)

Dror Biran  
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A Product manager and a Front-end React Native developer at [Wix.com](#)  
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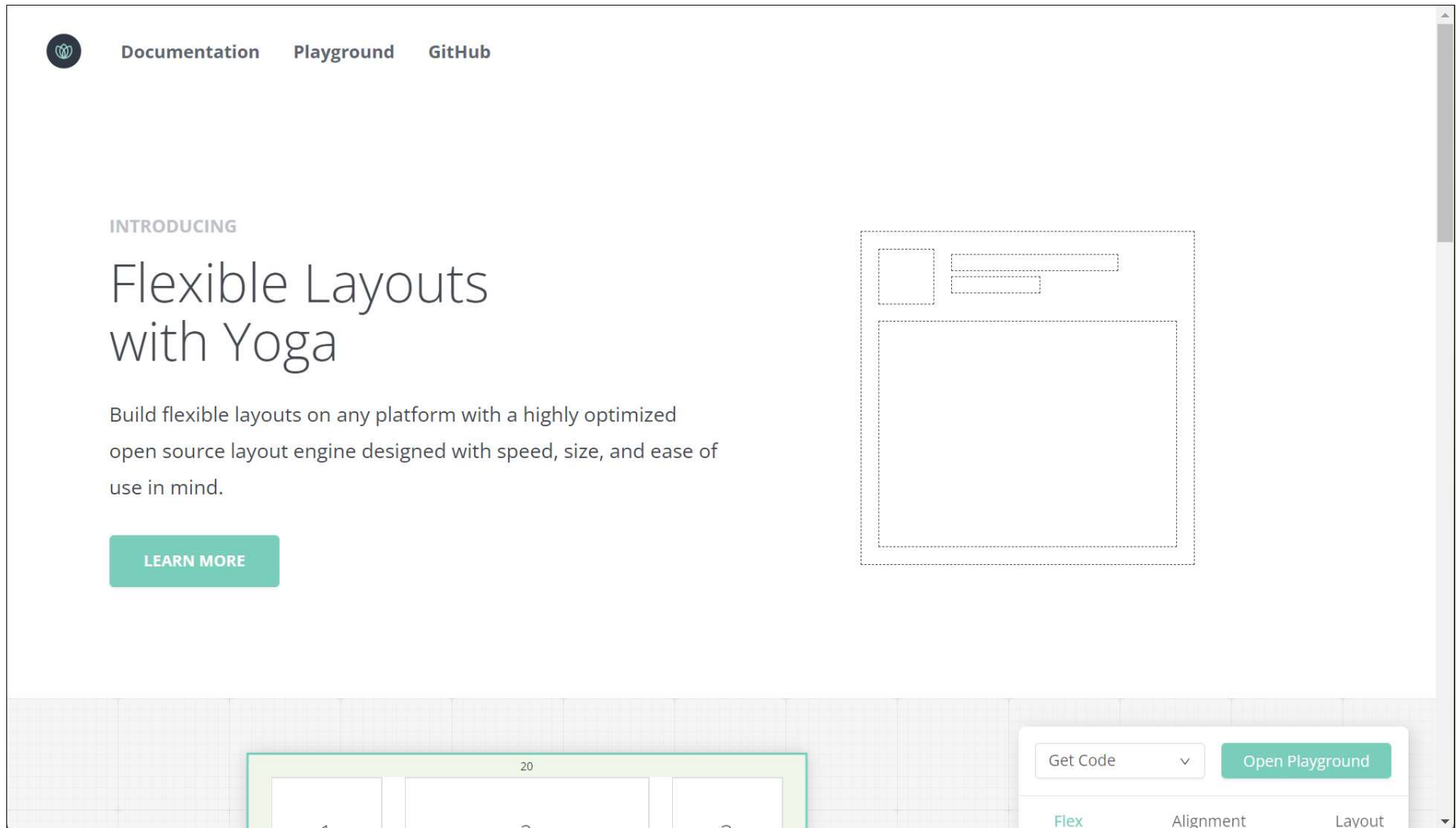
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Sunil Ku... in JavaScript in Plain Eng...  
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**Don't Go To Any UX Job Interview Before Knowing these 7 UX Terms**

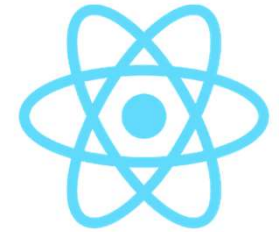
<https://medium.com/wix-engineering/the-full-react-native-layout-cheat-sheet-a4147802405c>

# Yogalayout – build interfaces

A screenshot of the Yogalayout website. The top navigation bar includes a logo, 'Documentation', 'Playground', and 'GitHub'. The main content area features the heading 'INTRODUCING Flexible Layouts with Yoga' and a subtext: 'Build flexible layouts on any platform with a highly optimized open source layout engine designed with speed, size, and ease of use in mind.' Below this is a green 'LEARN MORE' button. To the right is a diagram of a flexible layout with a header and a main content area. At the bottom, there is a grid-based visualizer showing a layout with dimensions (e.g., 20, 1, 2) and a control panel with 'Get Code', 'Open Playground', and tabs for 'Flex', 'Alignment', and 'Layout'.

<https://yogalayout.com/>

# An interactive guide to Flexbox



Josh Comeau

Latest Posts Snippets Goodies

Flexbox is a remarkably powerful layout mode. When we *truly* understand how it works, we can build dynamic layouts that respond automatically, rearranging themselves as-needed.

For example, check this out:

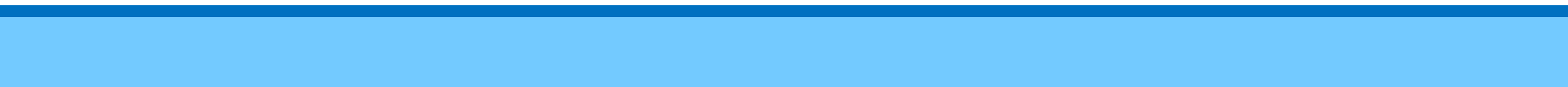
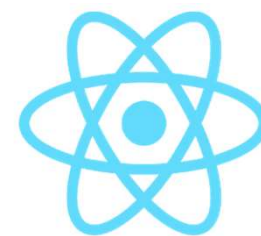
Container width: 570

Name: Lin Email: Lin9558@web.de Submit

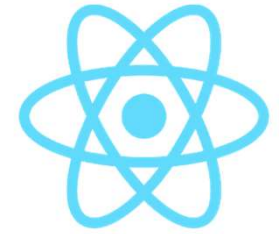
This demo is heavily inspired by Adam Argyle's incredible ["4 layouts for the price of 1"](#) codepen. *It uses no media/container queries.* Instead of setting arbitrary breakpoints, it uses *fluid principles* to create a layout that flows seamlessly.

Here's the relevant CSS:

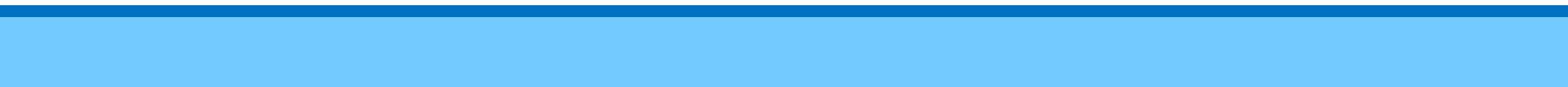
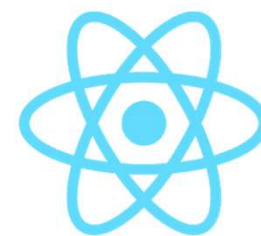
- Introduction to Flexbox
- Flex direction
- Alignment
  - Content vs. items
- Hypothetical size
- Growing and shrinking
  - flex-basis
  - flex-grow
  - flex-shrink
- Preventing shrinking
- The minimum size gotcha
- Gaps
  - Auto margins
- Wrapping
- You made it!
- Bonus: Unpacking the demo



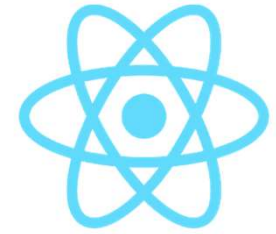
# Today




- **Navigation** in React Native
  - Passing data between screens
- Working with external **(REST) API's**
- Working with **Device API's**
- **Cases** / 'hackathon'-like
- Next steps...



# Cases



- Case / 'Hackathon'
- Put your learned knowledge into practice
- Topics
  - Case 1 – Country Picker
  - Case 2 – Movie Finder App
  - Case 3 – Camera Picker

PROUD NERDS

REACT NATIVE CASE 01 – PROUD NERDS

01 – Country Picker

Bouw een React Native applicatie waarmee gebruikers informatie over landen kunnen opzoeken. Je gebruikt hiervoor de (open) RestCountries API. Met de applicatie kunnen mensen zoeken op (een deel van de) naam van een land zoals Bel (resultaat: Belgium, Belize, etc) en zien ze een lijst met landen die met de betreffende letters beginnen. Vervolgens kunnen gedetailleerde gegevens over het betreffende land worden getoond.

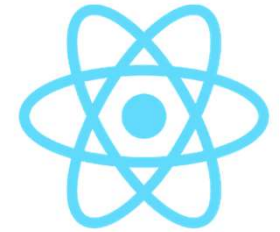
De applicatie heeft de volgende requirements:

- De app is gemaakt in React Native en draait op een Android of iOS emulator en/of device via de Expo Go-app.
- Naar keuze mag een aanvullend UI-component framework zoals *React Native UI Lib*, *React Native Elements* of anders worden gebruikt. De applicatie mag echter ook gebruik maken van de standaard React Native Core Components zoals `<View>`, `<Text>`, `<Image>` enzovoort.
- De app bevat een zoekvak en een knop en voldoende aanwijzingen in de userinterface.
  - Als de bezoeker (een deel van) een landnaam invult en op *Zoeken* klikt, wordt een lijst met landen getoond.
  - In de lijst wordt de vlag van het land, de naam, de hoofdstad en het inwoneraantal getoond.
- Er moet een knop zijn om de lijst weer leeg te maken/te verbergen.





# React Native Next Steps



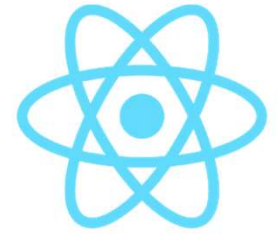
- Building/Publishing your apps
- Styling - React Router Web/Advanced [Navigation](#)
- Routing [Guards / security](#)
- State Management with [Context](#) and/or [Redux](#)
- Writing [Custom Hooks](#)
- More [Core components](#)
- Using [UI Libraries...](#)



# Wrap-up

What have we learned?

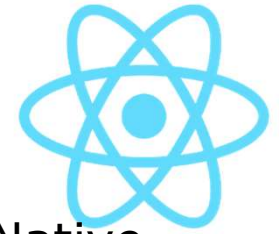
## Goals of this training



*You're **not** going to be a **React Native wizard** in 2 days (sorry)*

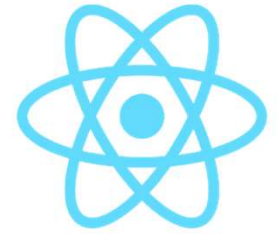
**but....**

# Goals



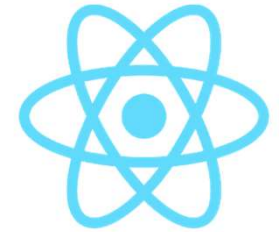
1. You *will* learn about the **structure and architecture** of React Native Apps. From a small `hello-world` app to the largest enterprise applications.
2. You are familiar with the **main React Native concepts** of the framework and operating systems. You can Google details yourself.
3. You will gain **insights** in React Native core components, platform specific components, external API's & device API's, navigation, forms.
4. You will have a **some hands-on experience** with *React Native* to build Native Mobile Applications for Android and iOS.


**Getting some experience...**





*Finish your case!*


# Eval Time! - [rb.gy/frv8sf](https://rb.gy/frv8sf)





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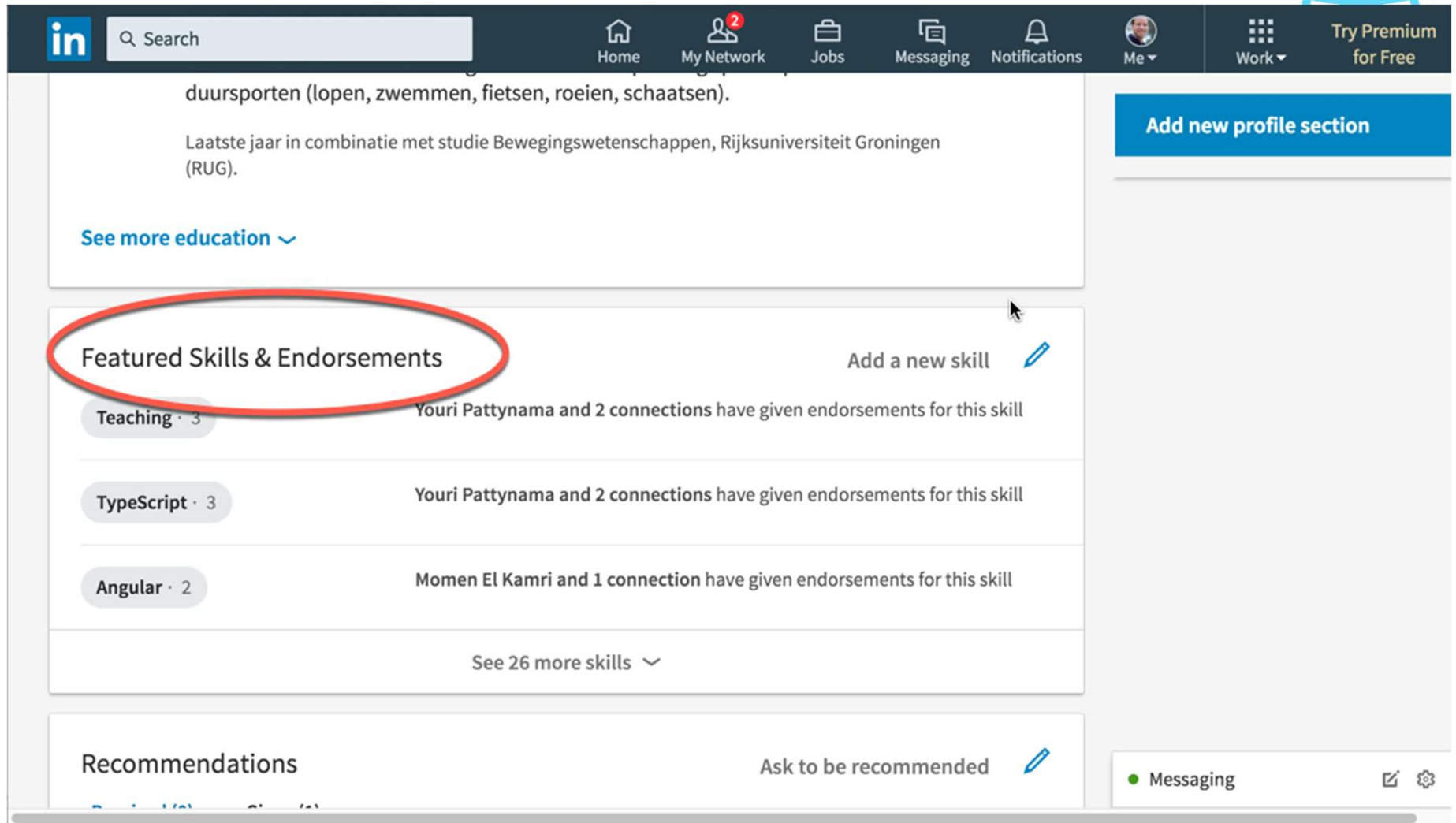
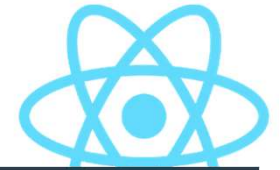
[www.spiraltrain.nl](https://www.spiraltrain.nl)

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Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).

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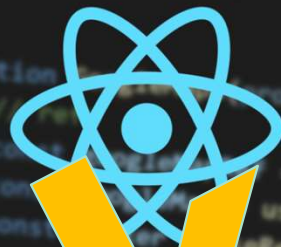
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