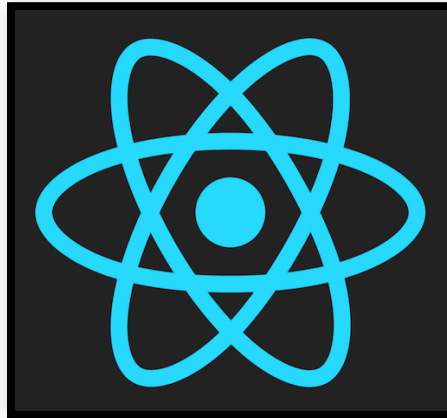


# React Native Training



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# React Native

Mobile application development framework based on React.js. It uses JavaScriptCore for a JS engine.

# Advantages of React Native

- Same code for 2 platform (IOS ve Android)
- Mobile development with JavaScript
- Fast development and debugging
- Native close performance
- Advantages of React.js
- Styling with CSS

# Who Uses?

- Facebook
- Instagram
- Walmart
- Airbnb
- Tesla
- SoundCloud Pulse

# Requirements

- Node.js
- Expo, emulator or real device

# Create a React Native Project

```
npm install -g expo-cli  
  
expo init MyMobileProject  
cd MyMobileProject  
npm start
```

# Install Expo Client

Expo client is a mobile application to run React Native applications on mobile devices during development.

<https://expo.io/tools#client>

# React Native Components



- View
- Text
- Button
- Picker
- TextInput
- Alert
- Modal
- WebView
- FlatList
- Switch
- and more..

# React Native Debugging

Shake your device, and Click Start Remote JS  
Debugging in expo client

# React Native APIs

- Dimensions
- Platform
- Clipboard
- AsyncStorage
- Vibration
- StyleSheet
- more..

# React Native Styling

CSS is supported to style React Native components.

```
(<View style={styles.container}>
  <Text>Hello World</Text>
</View>)

let styles= StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: "red"
  }
});
```

# React Native Layout

React Native uses a responsive grid model called Flexbox.

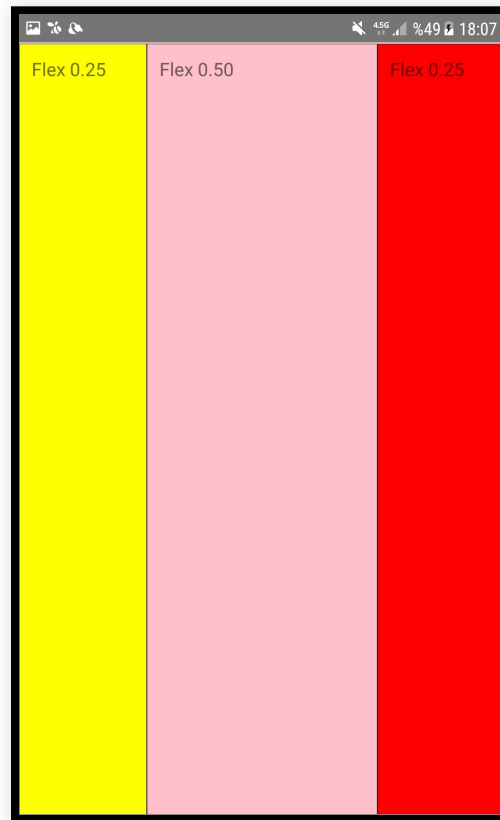
# Flex Direction - Column #1

`flex` places elements on the screen with a proportional coefficient. Direction, axis can be top to down (`column`), or left to right (`row`). Default `flexDirection` is : `column`



# Flex Direction - Row #2

To change the direction, flexDirection CSS attribute should be used.



# Positioning of elements #1

## **justifyContent**

Determines to place of elements on the main axis (`flex-start`, `flex-end`, `center`, `space-around`, `space-between`)



# Elemanların yerleşimi #2

## **alignItems**

Determines to place of elements on the secondary axis  
(`flex-start` , `flex-end` , `center` , `stretch`)

# Example #1



Figure 3. `flexDirection=column`, `justifyContent=flex-start`

# Example #2



Figure 4. `flexDirection=column`, `justifyContent=flex-end`

# Example #3



Figure 5. flexDirection=column, justifyContent=center

# Example #4



Figure 6. flexDirection=column, justifyContent=space-around

# Example #5

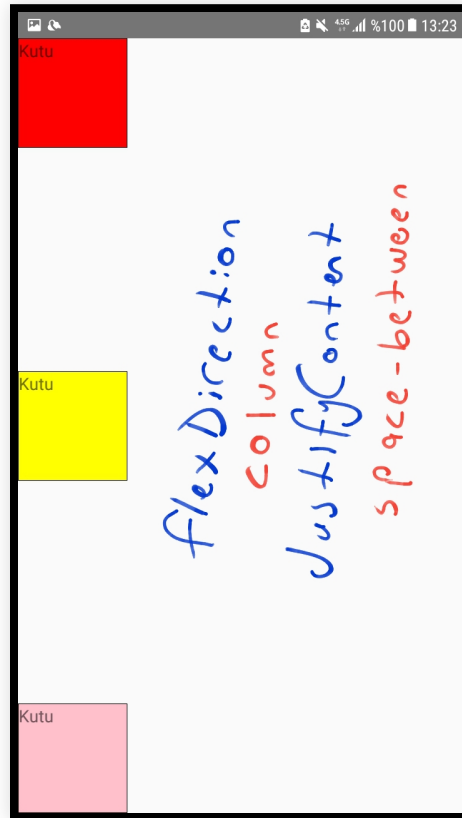


Figure 7. `flexDirection=column`, `justifyContent=space-between`

# Example #6



Figure 8. flexDirection=row, justifyContent=flex-start

# Example #7

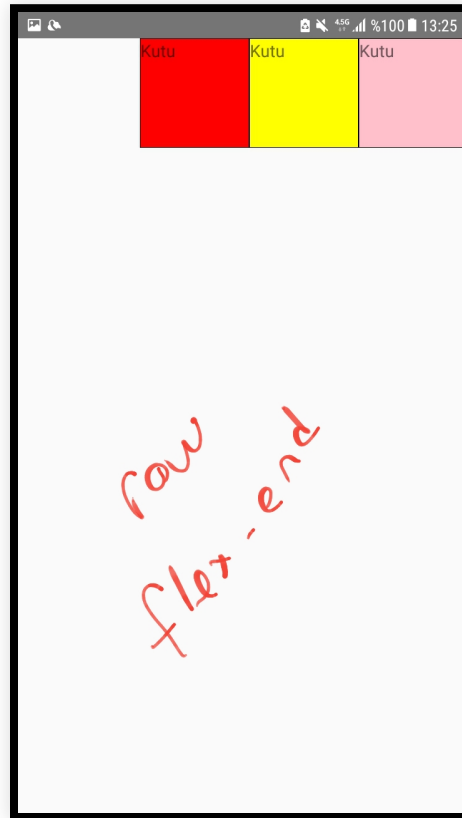


Figure 9. flexDirection=row, justifyContent=flex-end



# Example #8



Figure 10. `flexDirection=row`, `justifyContent=center`

# Example #9



Figure 11. `flexDirection=row`, `justifyContent=space-around`

# Example #10



Figure 12. `flexDirection=row`, `justifyContent=space-between`

# Example #11



Figure 13. `flexDirection=column`, `justifyContent=center`,  
`alignItems=flex-start`

# Example #12



Figure 14. `flexDirection=column`, `justifyContent=center`,  
`alignItems=flex-end`

# Example #13

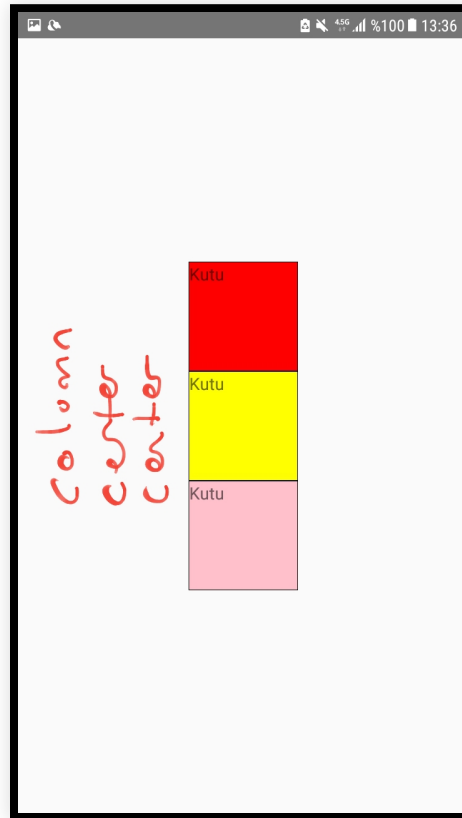


Figure 15. `flexDirection=column`, `justifyContent=center`,  
`alignItems=center`

# Example #14

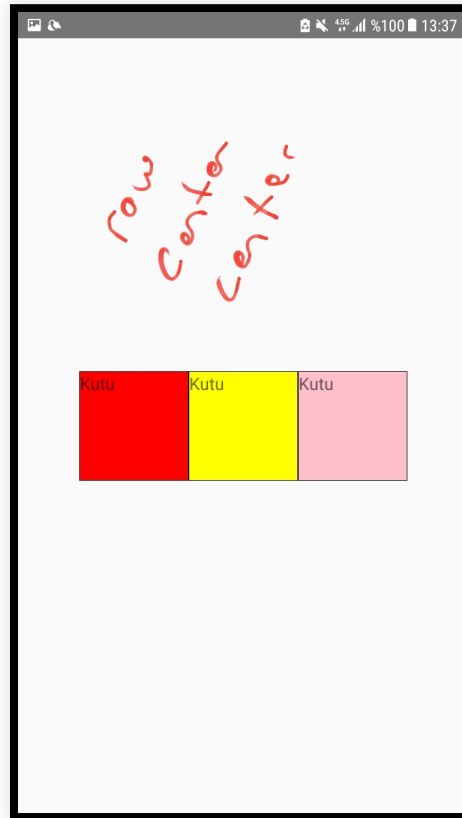


Figure 16. `flexDirection=row`, `justifyContent=center`,  
`alignItems=center`

# Button

```
<Button  
  title="Press me"  
  color="#f194ff"  
  onPress={() => Alert.alert('Pressed')}  
>
```



# TextInput

```
<TextInput
  multiline={false}
  numberOfLines={1}
  onChangeText={text => onChangeText(text)}
  value={value}
/>
```

# Text

```
<Text>{someText}</Text>
```

```
<Text numberOfLines={5}>  
  {someText}  
</Text>
```

# FlatList

```
<FlatList
  data={DATA}
  renderItem={({ item }) => <Item title={item.title} />}
  keyExtractor={item => item.id}
/>
```

# Other components

<https://facebook.github.io/react-native/docs/button>

# React Native Elements

<https://react-native-elements.github.io/react-native-elements/docs/overview.html>

# Demo application

Demo

# Building Native Packages

```
expo build:android  
expo build:ios
```

# Deploying App

<https://docs.expo.io/versions/latest/workflow/publishing/#to-the-app-store-and-play>



# The End

Thank you