



Universidad Politécnica de Madrid

React Native

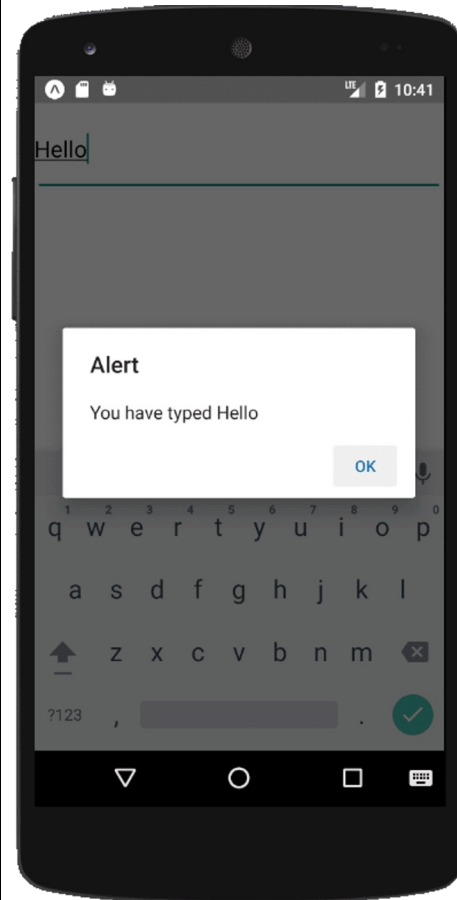
Componentes básicos

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TextInput

```
import React from 'react';
import { TextInput, View } from 'react-native';

export default function App () {
  const _onTextInputChange = (text) => {
    if(text === "Hello"){
      alert("You have typed Hello")
    }
  }
  return (
    <View>
      <TextInput style={{height: 80, fontSize: 20}}
        placeholder= "Type Hello"
        onChangeText={_onTextInputChange} />
    </View>
  )
}
```



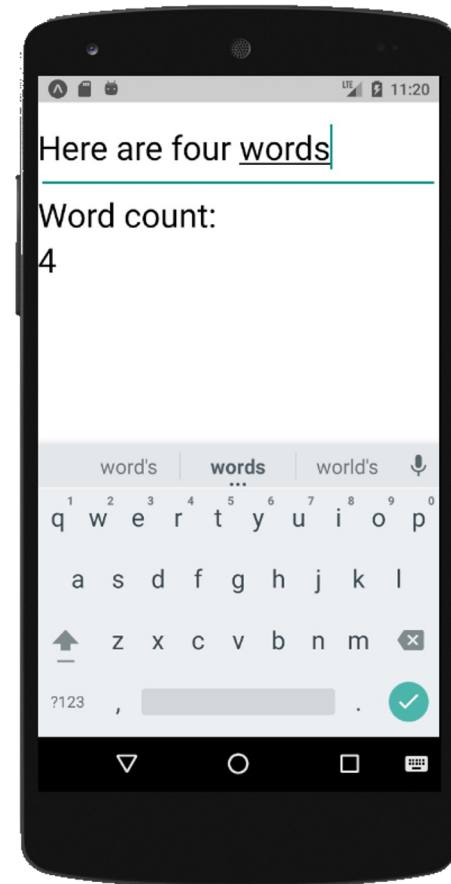
Text y TextInput

```
import React from 'react';
import { Text, TextInput, View } from 'react-native';
import { useState } from 'react';

export default function App () {
  const [value, setValue] = useState("");

  const _onTextInputChange = (text) => {
    setValue(text);
  }

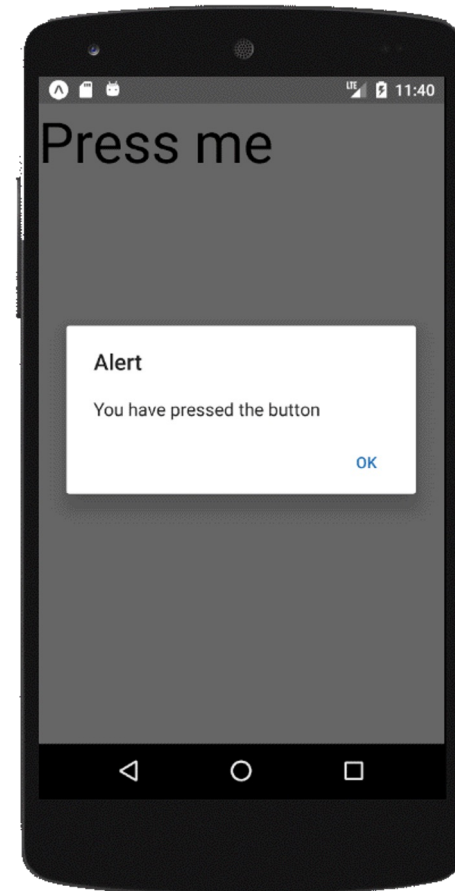
  return (
    <View>
      <TextInput style={{height: 80, fontSize: 30}} placeholder="Type here"
        onChangeText={_onTextInputChange} />
      <Text style={{fontSize: 30}}>Chars count:</Text>
      <Text style={{fontSize: 30}}>
        {value.length}
      </Text>
    </View>
  )
}
```



TouchableHighlight

```
import React from 'react';
import { Text, TouchableHighlight, View } from 'react-native';

export default function App () {
  const _onPressButton= () => {
    alert("You have pressed the button")
  }
  return (
    <View>
      <TouchableHighlight onPress={_onPressButton}>
        <Text style={{fontSize: 50}}>Press me</Text>
      </TouchableHighlight>
    </View>
  )
}
```



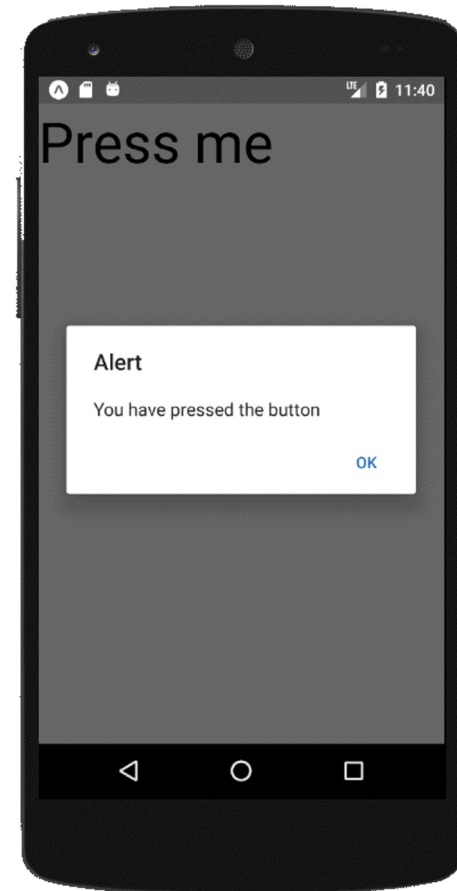
Componente MyButton

```
import React from 'react';
import { Text, TouchableHighlight, View } from 'react-native';

export default function MyButton (props) {
  return (
    <TouchableHighlight onPress={props.onClick}>
      <Text style={{fontSize: 50}}>{props.text}</Text>
    </TouchableHighlight>
  )
}
```

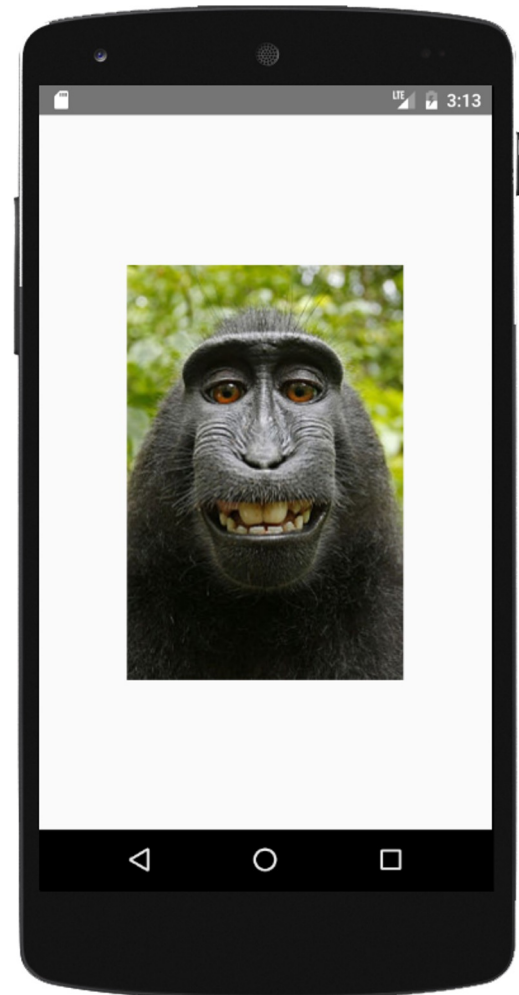
```
import React from 'react';
import MyButton from './MyButton';

export default function App () {
  return (
    <MyButton
      text="Press me"
      onClick={() => alert("You have pressed the button")}>
    </MyButton>
  )
}
```



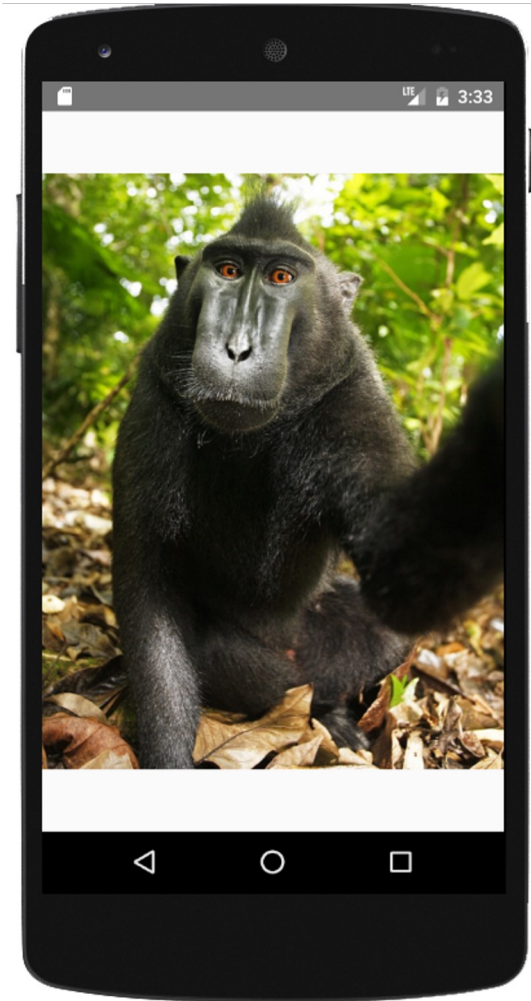
```
import React from 'react';
import { Image, View } from 'react-native';

export default function App () {
  return (
    <View style={{
      flex:1,
      alignItems: 'center',
      justifyContent: 'center'
    }}>
      <Image source={require('./img/macaca_nigra.jpg')} />
    </View>
  )
}
```



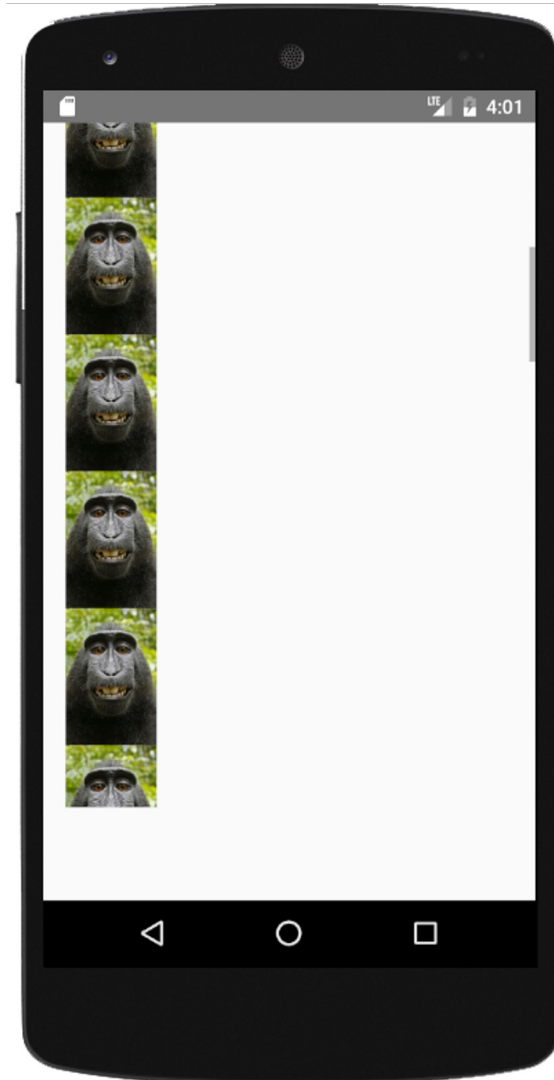
```
import React from 'react';
import { Image, View } from 'react-native';

export default function App () {
  return (
    <View style={{
      flex:1
    }}>
      <Image
        resizeMode='contain'
        style={{flex:1}}
        source={{uri: "https://vishub.org/pictures/8490.jpg"}}
      />
    </View>
  )
}
```




```
import React from 'react';
import { Image, ScrollView, View } from 'react-native';

export default function App () {
  var images = [];
  for(let i=0; i<30; i++){
    images.push(
      <Image resizeMode='contain'
        style={{width:100, height: 100}}
        source={require('./img/macaca_nigra.jpg')} key={i} />
    )
  }
  return (
    <View style={{height: 500}}>
      <ScrollView>{images}</ScrollView>
    </View>
  )
}
```



- React Native proporciona varios componentes para presentar listas de datos (<https://reactnative.dev/docs/using-a-listview>)
 - **FlatList** (<https://reactnative.dev/docs/flatlist>)
 - Permite mostrar de forma eficiente datos similarmente estructurados en listas con scroll
 - **SectionList** <https://reactnative.dev/docs/sectionlist>
 - Permite mostrar conjuntos de datos en listas con diferentes secciones
 - Para crear listas sin secciones mejor usar FlatList

Tras crear una lista con FlatList o SectionList se pueden modificar los datos de la misma

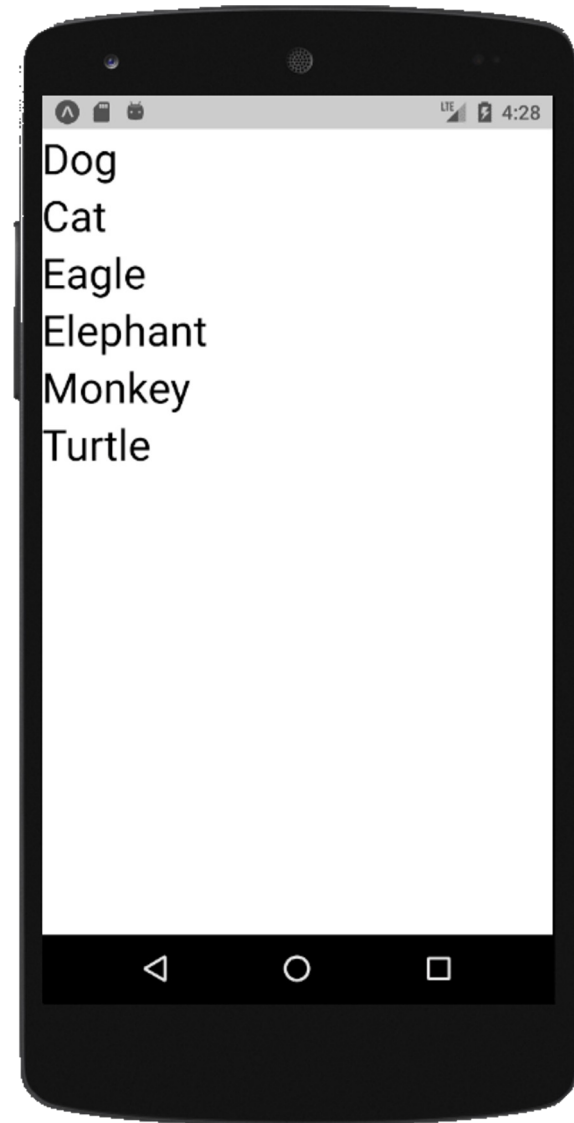
- **FlatList** permite mostrar de forma eficiente datos similarmente estructurados en listas verticales u horizontales con scroll
- Los datos se pueden modificar una vez creada la lista
- Componente pensado para grandes listas de datos:
FlatList solo renderiza aquellos elementos que se muestran por pantalla mientras que *ScrollView* renderiza todos los elementos
- FlatList requiere dos propiedades:
 - **data**: fuente de información de la lista
 - **renderItem**: función que recibe como parámetro un elemento de la lista y devuelve un componente renderizable

```
import React from 'react';
import { Text, FlatList } from 'react-native';

export default function App () {

  var animals = [{key:'Dog'}, {key:'Cat'}, {key:'Eagle'},
    {key:'Elephant'}, {key:'Monkey'}, {key:'Turtle'}];

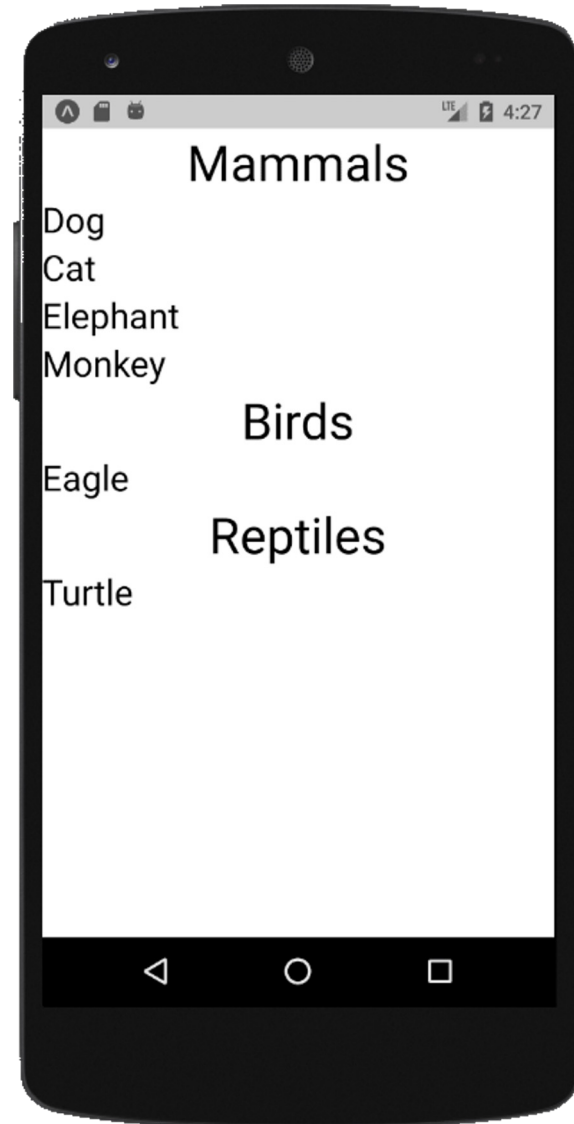
  return (
    <FlatList
      data={animals}
      renderItem={({item}) =>
        <Text style={{fontSize: 30}}>{item.key}</Text>
      />
    )
  )
}
```



SectionList

```
import React from 'react';
import { Text, SectionList } from 'react-native';
export default function App () {

  var mammals = [{key:'Dog'}, {key:'Cat'}, {key:'Elephant'},
                  {key:'Monkey'}];
  var birds = [{key:'Eagle'}];
  var reptiles = [{key:'Turtle'}];
  return (
    <SectionList
      sections={[
        {data: mammals, title: 'Mammals'},
        {data: birds, title: 'Birds'},
        {data: reptiles, title: 'Reptiles'}
      ]}
      renderItem={({item}) =>
        <Text style={{fontSize:25}}>{item.key}</Text>
      }
      renderSectionHeader={({section}) =>
        <Text style={{textAlign:'center', fontSize:35}}>
          {section.title}</Text>
        </Text>
      )
    </SectionList>
  )
}
```





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