

# React Native Tutorial – Lesson Notes

## What is React Native?

React Native is a framework for building native mobile apps using React and JavaScript. Write once, run on both iOS and Android.

## Core Concepts

### Setting Up with Expo

```
npx create-expo-app MyApp  
cd MyApp  
npx expo start
```

## Core Components

React Native	Web Equivalent	Purpose
<View>	<div>	Container
<Text>	<p> / <span>	Display text
<Image>	<img>	Display images
<ScrollView>	Scrollable <div>	Scrollable container
<TextInput>	<input>	Text input field
<TouchableOpacity>	<button>	Touchable element
<FlatList>	Mapped list	Performant long lists

## Basic Component

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

export default function WelcomeScreen() {
  return (
    <View style={styles.container}>
      <Text style={styles.title}>Welcome!</Text>
      <Text style={styles.subtitle}>Start learning today</Text>
    </View>
  )
}
```

```
        );
    }

const styles = StyleSheet.create({
  container: { flex: 1, justifyContent: 'center', alignItems: 'center' },
  title: { fontSize: 28, fontWeight: 'bold' },
  subtitle: { fontSize: 16, color: '#666', marginTop: 8 },
});

```

## Navigation

```
import { NavigationContainer } from '@react-navigation/native';
import { createStackNavigator } from '@react-navigation/stack';

const Stack = createStackNavigator();

function App() {
  return (
    <NavigationContainer>
      <Stack.Navigator>
        <Stack.Screen name="Home" component={HomeScreen} />
        <Stack.Screen name="Details" component={DetailsScreen} />
      </Stack.Navigator>
    </NavigationContainer>
  );
}


```

## Key Takeaways

1. React Native uses native components, not a WebView — real native performance.
2. Styling uses StyleSheet (similar to CSS but with camelCase properties).
3. Use Expo for quick setup; eject to bare workflow for advanced native modules.
4. FlatList is essential for performant scrolling lists.