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Pemrograman Perangkat Bergerak

1. Prop singkatan dari property. Prop merupakan parameter jika dalam komponen dalam bentuk fungsi namun jika dalam bentuk kelas (class) merupakan property

State merupakan data private dari sebuah komponen. Data ini hanya tersedia untuk komponen tersebut dan tidak bisa diakses dari komponen dan defaultnya adalah 0

2. Contoh View

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

const ViewBoxesWithColorAndText = () => {
  return (
    <View
      style={{
        flexDirection: "row",
        height: 100,
        padding: 20
      }}
    >
      <View style={{ backgroundColor: "blue", flex: 0.3 }} />
      <View style={{ backgroundColor: "red", flex: 0.5 }} />
      <Text>Hello World!</Text>
    </View>
  );
};

export default ViewBoxesWithColorAndText;
```

Contoh Text

```
import React, { useState } from "react";
import { Text, StyleSheet } from "react-native";

const TextInANest = () => {
  const [titleText, setTitleText] = useState("Bird's Nest");
  const bodyText = useState("This is not really a bird nest.");

  const onPressTitle = () => {
    setTitleText("Bird's Nest [pressed]");
  };

  return (
    <Text style={styles.baseText}>
```

```

    <Text style={styles.titleText} onPress={onPressTitle}>
      {titleText}
      {"\n"}
      {"\n"}
    </Text>
    <Text numberOfLines={5}>{bodyText}</Text>
  </Text>
);
};

```

```

const styles = StyleSheet.create({
  baseText: {
    fontFamily: "Cochin"
  },
  titleText: {
    fontSize: 20,
    fontWeight: "bold"
  }
});

```

```

export default TextInANest;

```

Contoh TextInput

```

import React from "react";
import { SafeAreaView, StyleSheet, TextInput } from "react-native";

```

```

const UselessTextInput = () => {
  const [text, onChangeText] = React.useState("Useless Text");
  const [number, onChangeNumber] = React.useState(null);

```

```

  return (
    <SafeAreaView>
      <TextInput
        style={styles.input}
        onChangeText={onChangeText}
        value={text}
      />
      <TextInput
        style={styles.input}
        onChangeText={onChangeNumber}
        value={number}
        placeholder="useless placeholder"
        keyboardType="numeric"
      />
    </SafeAreaView>
  );
};

```

```
const styles = StyleSheet.create({
  input: {
    height: 40,
    margin: 12,
    borderWidth: 1,
  },
});
```

```
export default UselessTextInput;
```

Contoh Button

```
<Button
  onPress={onPressLearnMore}
  title="Learn More"
  color="#841584"
  accessibilityLabel="Learn more about this purple button"
/>
```

Contoh ScrollView

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

```
const App = () => {
  return (
    <SafeAreaView style={styles.container}>
      <ScrollView style={styles.scrollView}>
        <Text style={styles.text}>
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          eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad
          minim veniam, quis nostrud exercitation ullamco laboris nisi ut
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```

```

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    pariatur. Excepteur sint occaecat cupidatat non proident, sunt in
    culpa qui officia deserunt mollit anim id est laborum.
  </Text>
</ScrollView>
</SafeAreaView>
);
}

```

```

const styles = StyleSheet.create({
  container: {
    flex: 1,
    paddingTop: StatusBar.currentHeight,
  },
  scrollView: {
    backgroundColor: 'pink',
    marginHorizontal: 20,
  },
  text: {
    fontSize: 42,
  },
});

```

```
export default App;
```

3. Langkah-langkah menjalankan aplikasi React Native

- 1) Sebelum menjalankan harus terinstall terlebih dahulu node.js
- 2) Lakukan npm install –global expo-cli
- 3) Lalu expo init namaProject
- 4) Jika sudah buka projectnya menggunakan code editor
- 5) Lalu buka terminalnya dan jalankan projectnya menggunakan perintah
- 6) npm run web = jika ingin menjalankannya di web
- 7) npm run android = jika ingin menjalankannya di android dan harus membuka emulatorenya terlebih dahulu