Styles

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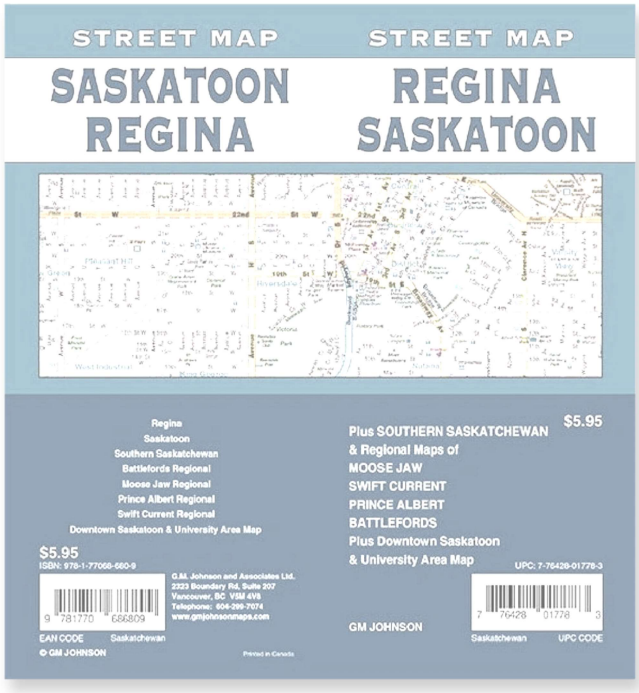
Goals

1. List 2 options for creating a new React Native project
2. List 3 React Native components and their HTML analogs

Roadmap

1. Styling
2. Sizing



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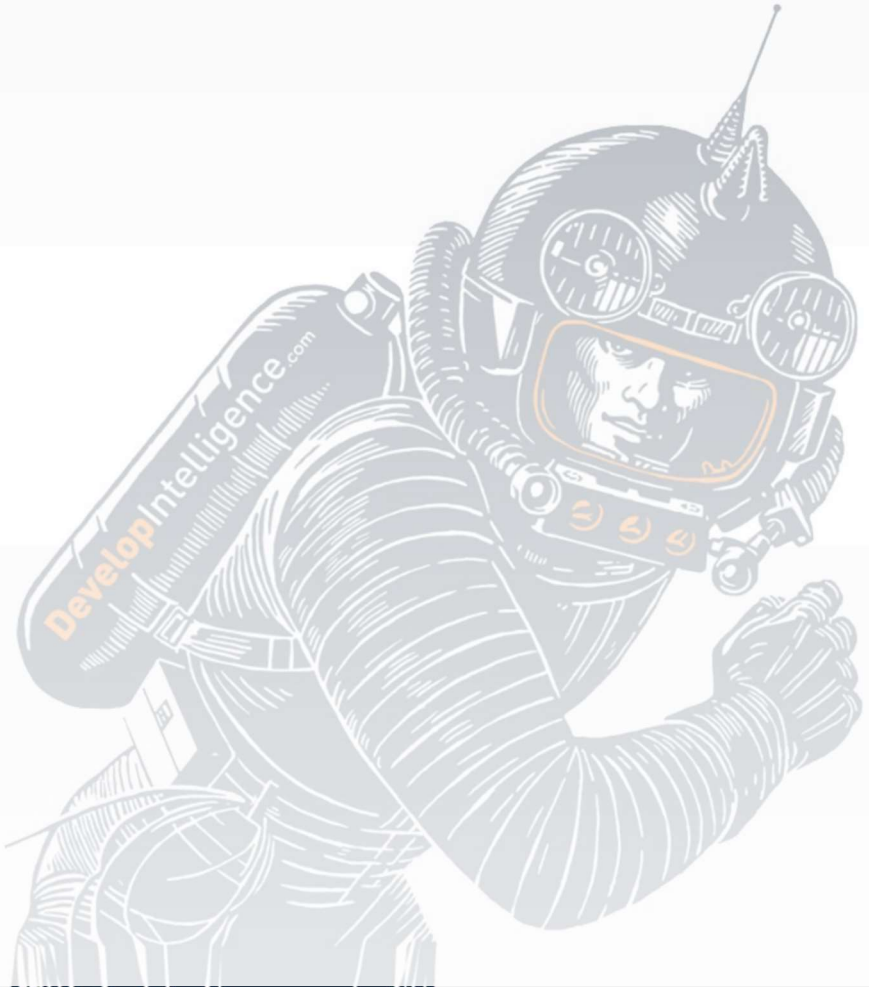
Styling



Overview

- All ***core components*** have a `style` property
  - Accepts `StyleProp` or `Array<StyleProp>` or POJOs
- Styles names match CSS-- except camelCase
  - e.g. `backgroundColor` instead of `background-color`

Option 1: Vanilla Objects

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```
export default function App() {
  const [clicks, setClicks] = useState(0);
  return <View style={styles.container}>
          <Text style={{fontSize:25,footWeight:'bold'}}>Hello World</Text>
          <Text>Clicks: {clicks}</Text>
          <Button title='Increment' onPress={()=>setClicks(clicks+1)}/>
        </View>;
}
```

- Mistakes get warnings
- e.g. `footWeight` instead of `fontWeight`

Option 2: StyleProp


```
const styles = StyleSheet.create({
  header:{
    fontSize:20,
    fontWeight:'bold',
  },
  container: {
    flex: 1,
    backgroundColor: '#fff',
    alignItems: 'center',
    justifyContent: 'center',
  },
});
```

StyleProp Advantages

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```
export default function App() {
  const [clicks, setClicks] = useState(0);
  return <View style={styles.container}>
          <Text style={styles.header}>Hello World</Text>
          <Text>Clicks: {clicks}</Text>
          <Button title='Increment' onPress={()=>setClicks(clicks+1)}/>
        </View>;
}
```

- Mistakes fail the build
- Easy to define global styles

Inheritance

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- React Native has limited support for CSS-style inheritance
- **Only** works for text trees
- This cascades:

```
<Text style={{fontWeight: 'bold'}}>
  Bold here <Text style={{color: 'orange'}}> and orange too</Text>
</Text>
```

- This doesn't:

```
<View style={{fontWeight:'bold'}}>
  <Text style={styles.header}>Hello World</Text>
  <Text>Clicks: {clicks}</Text>
  <Button title='Increment' onPress={()=>setClicks(clicks+1)}/>
```

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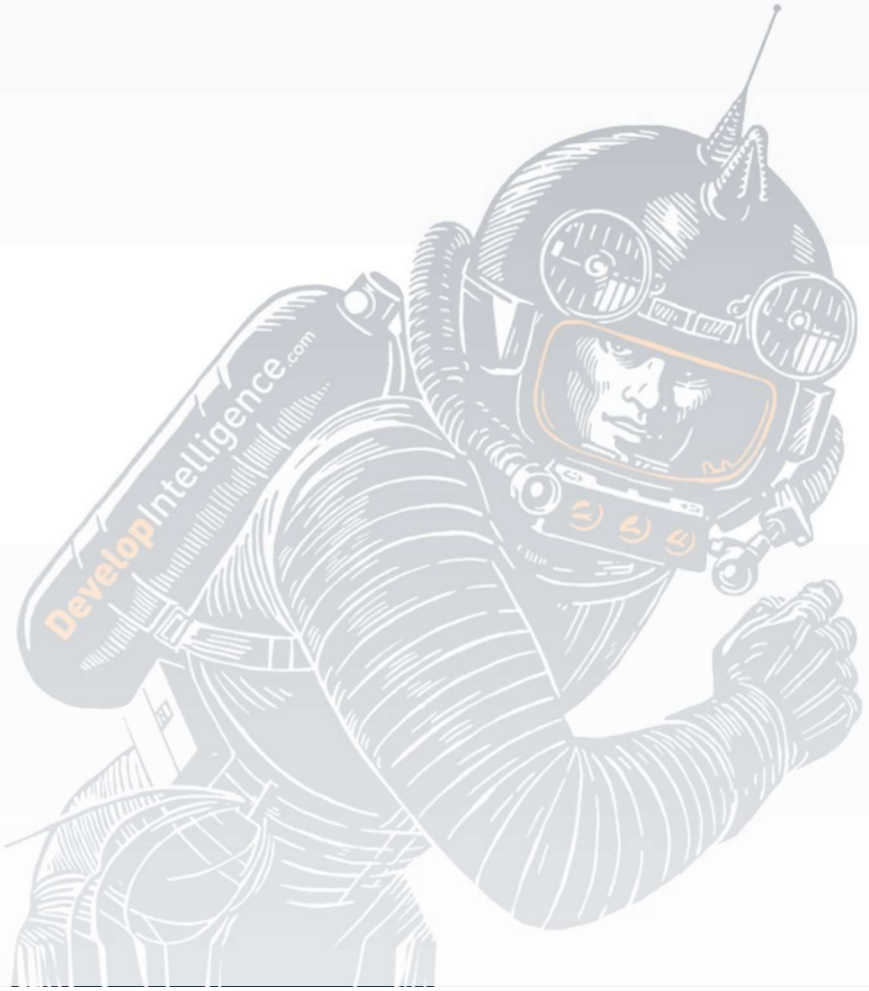
Sizing



Bad News: Sizing

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- Units are: dps and Percents
  - No: `em`, `rem`, `vh`, etc.

> ***Density-independent pixels****, written as **dp** (pronounced "**dips**"), are flexible units that scale to have uniform dimensions on any screen. They provide a flexible way to accommodate a design across platforms. ... UIs use density-independent pixels to display elements consistently on screens with different densities.*

-- From Material docs

Sizing Option1: Fixed Dimensions

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```
export default App =() =>
  <View>
    <View
      style={{ width: 32, height: 32,backgroundColor: 'red',}}
    />
    <View
      style={{ width: 64, height: 64,backgroundColor: 'yellow',}}
    />
    <View
      style={{width: 128,height: 128,backgroundColor: 'blue',
      }}
    />
  </View>
```

Option 2: Flex

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```
export default App =() =>
  <View style={{flex:1}}>
    <View
      style={{ flex:1,backgroundColor: 'red',}}
    />
    <View
      style={{ flex:2,backgroundColor: 'yellow',}}
    />
    <View
      style={{flex:3,backgroundColor: 'blue',
      }}
    />
  </View>
```

Option 3: Percents

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```
export default App =() =>
  <View style={{width:400,height:400}}>
    <View
      style={{ width:'20%', height:'20%',backgroundColor: 'red',}}
    />
    <View
      style={{ width:'40%', height:'40%',backgroundColor: 'yellow',}}
    />
    <View
      style={{width:'80%', height:'80%',backgroundColor: 'blue',
      }}
    />
  </View>
```

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Review

1. List 2 options for creating a new React Native project
2. List 3 React Native components and their HTML analogs