



What is our GOAL for this MODULE?

We learned to add multiple filter options to try out different frames in the app based on data collected after face detection.

What did we ACHIEVE in the class TODAY?

• We learned to create and add multiple face filters on the face

Which CONCEPTS/CODING BLOCKS did we cover today?

- expo-permissions
- expo-camera
- expo-face-detector
- <Camera/>, <SafeAreaView/>,<ScrollView/>,<Platform/> components
- react-native-responsive-fontsize library
- RFPercentage, RFValue



How did we DO the activities?

1. Install 'react-native-responsive-fontsize' library and import RFPercentage, RFValue and other dependencies

```
import { RFPercentage, RFValue } from "react-native-responsive-fontsize";
```

```
import {
    StyleSheet,
    Text,
    View,
    SafeAreaView,
    StatusBar,
    Platform,
    ScrollView,
    TouchableOpacity,
    Image
} from 'react-native';
```

- 2. Add the style for each container:
 - Heading
 - App name text 1
 - App name text 2
 - Subheading text 1
 - Subheading text 2
 - Frames container
 - Images container

```
headingContainer: {
    flex: 0.15,
    alignItems: 'center',
    justifyContent: 'center',
    backgroundColor: "#6278e4"
},
```

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```
titleText1: {
   fontSize: RFValue(30),
   fontWeight: "bold",
   color: "#efb141",
   fontStyle: 'italic',
   textShadowColor: 'rgba(0, 0, 0, 0.75)',
   textShadowOffset: { width: -3, height: 3 },
   textShadowRadius: 1
},
titleText2: {
   fontSize: RFValue(30),
                                       Jr x White lat Jr
   fontWeight: "bold",
   color: "white",
   fontStyle: 'italic',
   textShadowColor: 'rgba(0, 0, 0, 0.75)',
   textShadowOffset: { width: -3, height: 3 },
   textShadowRadius: 1
},
subheading1: {
   fontSize: RFValue(20),
   color: "#efb141",
   fontStyle: 'italic',
   textShadowColor: 'rgba(0, 0, 0,
   textShadowOffset: { width: -3, height: 3 },
   textShadowRadius: 1
},
subheading2: {
   fontSize: RFValue(20),
   color: "white",
   fontStyle: 'italic',
   textShadowColor: 'rgba(0, 0, 0, 0.75)',
   textShadowOffset: { width: -3, height: 3 },
   textShadowRadius: 1
```



```
framesContainer: {
    flex: 0.2,
    paddingLeft: RFValue(20),
    paddingRight: RFValue(20),
    paddingTop: RFValue(30),
    backgroundColor: "#6278e4"
},
filterImageContainer: {
    height: RFPercentage(8),
    width: RFPercentage(15),
    justifyContent: "center",
    alignItems: "center",
    backgroundColor: "#e4e7f8",
    borderRadius: 30,
    marginRight: 20
}
```

3. Write a return method to render text

4. Add an image data object.



5. Add a state variable current_filter to change image filter value and update the state variable value in render() method.

```
constructor(props) {
    super(props)
    this.state = {
        hasCameraPermission: null,
        faces: [],
        current_filter: "filter_1"
    }
```

```
cCamera
    style={{ flex: 1 }}
    type={Camera.Constants.Type.front}
    faceDetectorSettings={{
        mode: FaceDetector.Constants.Mode.fast,
        detectLandmarks: FaceDetector.Constants.Landmarks.all,
        runClassifications: FaceDetector.Constants.Classifications.all
    }}
    onFacesDetected={this.onFacesDetected}
    onFacesDetectionError={this.onFacesDetectionError}}

/>

this.state.faces.map(face => {
    if (this.state.current_filter === "filter_1") {
        return <Filter1 key={face.faceID} face={face} />
    }
    else if (this.state.current_filter === "filter_2") {
        return <Filter2 key={face.faceID} face={face} />
    }
}
```

6. Write a return method to render images



7. Test the output by selecting the frames:



We have successfully learned to add multiple filters using the FaceDetector API in the expo.

What's NEXT?

In the next class, we will learn to add different categories of the filters based on the different frames options.

EXTEND YOUR KNOWLEDGE:

 You can refer to the link below to explore more about expo FaceDetector <u>FaceDetector</u>