

Version: 3.x

runOnJS

`runOnJS` lets you asynchronously run non-workletized functions that couldn't otherwise run on the UI thread. This applies to most external libraries as they don't have their functions marked with `"worklet";` directive.

`runOnJS` is usually used to update React state either on animation finish or conditionally within a gesture.

Reference

```
import { runOnJS } from 'react-native-reanimated';

function App() {
  // While on the UI thread
  runOnJS(navigation.goBack());
}
```

▼ Type definitions

Arguments

fn

A reference to a function you want to execute on the JavaScript thread from the UI thread. Arguments to your function have to be passed to the function returned from `runOnJS` i.e. `runOnJS(setValue)(10);` .

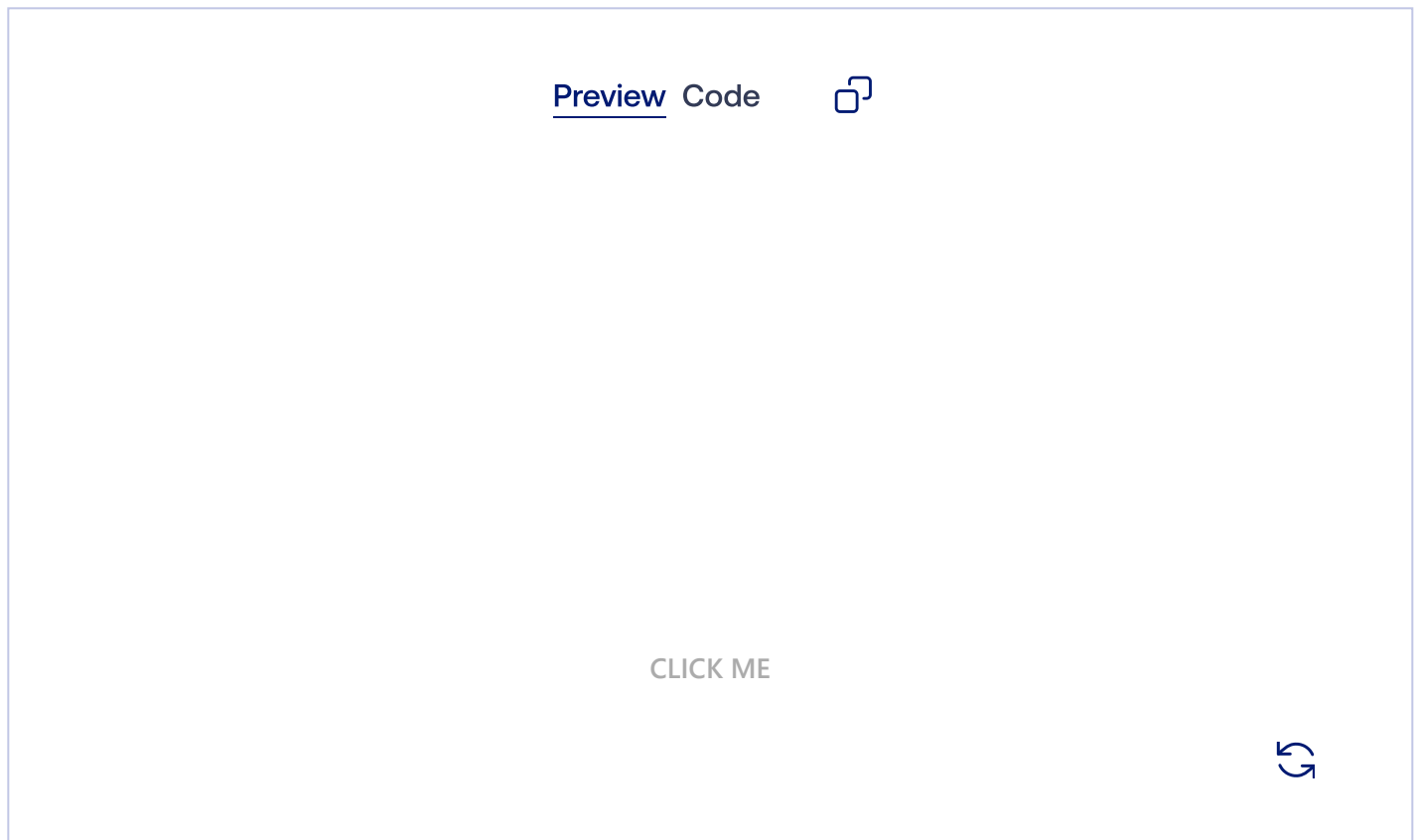
Returns

`runOnJS` returns a function that accepts arguments for the function passed as the first argument. This function can be safely executed on the UI thread.

❗ INFO

Don't forget to call the function returned from `runOnJS`.

Example



Remarks




- Functions passed to `runOnJS` must be defined in the JavaScript thread scope, i.e. in the component body or the global scope. This code won't work because `myFunction` is defined in the `withTiming` callback, which is only executed in the UI thread:

```
withTiming(0, {}, () => {  
  // myFunction is defined on the UI thread  
  const myFunction = () => {  
    // ...  
  };  
});
```

```
runOnJS(myFunction)(); // ✖  
});
```

- It's a common mistake to execute function inside of runOnJS like this:
~~runOnJS(setValue(10))()~~. Here, the correct usage would be `runOnJS(setValue)(10)`.
- It's safe to run functions via `runOnJS` on the JavaScript thread, as this has no effect.

Platform compatibility

| Android | iOS | Web |
|---|---|---|
|  |  |  |

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