



Skills Network

Building Rich Front-End Applications with React and ES6

Module 1 Building Rich Front-End Applications with React and ES6

Package/Method	Description	Code Example
		<pre> 1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 7. 7 8. 8 9. 9 10. 10 11. 11 </pre>
let and const	<p>let allows you to restrict the scope of variables within the block where they are declared.</p> <p>const allows you to declare constants whose values cannot be changed.</p>	<pre> 1. { 2. let a = 10 3. console.log(a) 4. a = 15 5. console.log(a) 6. } 7. console.log(a) 8. const num = 5 9. console.log(num) 10. num = 8 11. console.log(num) </pre>
		Copied!
Arrow function	<p>Arrow functions allow you to write shorter function syntax.</p>	<pre> 1. 1 2. 2 3. 3 4. 4 1. hello = () => 2. { 3. return "Hello World!"; 4. } </pre>
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Promises	<p>The Promise object represents the eventual completion (or failure) of an asynchronous operation and its resulting value.</p>	<pre> 1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 7. 7 8. 8 9. 9 10. 10 11. 11 12. 12 1. let promiseArgument = (resolve, reject) => 2. setTimeout (() => { 3. let currTime = new Date().getTime(); 4. if(currTime % 2 === 0){ 5. resolve("Success") 6. }else{ 7. reject("Failed!!!") 8. } 9. }, 2000) 10. } 11. let myPromise = new Promise(promiseArgument); 12. </pre>
		Copied!
class	<p>Class is a template or</p>	<pre> 1. 1 2. 2 </pre>

blueprint for
creating
object.

```
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8
9. 9
10. 10

1. function car(name,year)
2. {
3.     this.name = name
4.     this.year = year
5.     return this;
6. }
7. let car = car("Ford", 2014)
8. console.log(car)
9. console.log(car.name)
10. console.log(car.year)
```

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```
1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8
9. 9
10. 10
11. 11
12. 12
13. 13
14. 14
15. 15
```

Inheritance

A class
created with
a class
inheritance,
inherits all
the methods
from another
class.

```
1. class Square extends Rectangle
2. {
3.     constructor(height,width)
4.     {
5.         if(height === width)
6.         {
7.             super(height,width)
8.         }
9.         else
10.        {
11.            super(width,width)
12.        }
13.    }
14. }
15. let mySquare = new Square(5,5)
```

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```
1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8
```

**React
components**

Components
are reusable
segments of
code that
come under
the class and
functional
component
types.

```
1. import React from 'react';
2. import {Text} from 'react-native';
3. const Helloworld= ()=>
4. {
5.     return
6.     (Hello, World!);
7. }
8. export default Helloworld;
```

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```
1. 1
2. 2
3. 3
4. 4
```

**React class
Component**

React class
component
contains-

Props: set
from outside
the class
State:
internal to
the class

```

5. 5
6. 6
7. 7
8. 8
9. 9
10. 10
11. 11

1. import React from "react";
2. class App extends React.Component {
3.   constructor(props) {
4.     super(props);
5.     this.state={change: true };
6.   }
7.   render() {
8.     return(
9.       <button Click={()=>{this.setState({change: !this.state.change})}}>Click Here!</button>
10.      {this.state.change?(Hello!!):(Welcome to the React Course)}
11.     );
12.   }
13. }
14. export default App;

```

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When an
event fires,
event
handlers
decide what
should
happen next.
This could
involve
pressing a
button or
altering a text
entry.

```

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8
9. 9
10. 10

1. function changeColor() {
2.   const shoot = () => {
3.     alert("Color Changed!");
4.   }
5.   return (
6.     <button onClick={change}>Change the Color! </button>
7.   );
8. }
9. const root = ReactDOM.createRoot(document.getElementById('root'));
10. root.render(<changeColor />);

```

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Changelog

Date	Version	Changed by	Change Description
20-10-2022	1.1	Sapthashree K S	Cheatsheet updated
03-04-2023	1.2	Sneha R Baddi	Cheatsheet updated

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