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## setInterval in a React app



I'm still fairly new at React, but I've been grinding along slowly and I've encountered something I'm stuck on.

I am trying to build a "timer" component in React, and to be honest I don't know if I'm doing this right (or efficiently). In my code below, I set the state to return an object { currentCount: 10 } and have been toying with componentDidMount, componentWillUnmount, and render and I can only get the state to "count down" from 10 to 9.

Two-part question: What am I getting wrong? And, is there a more efficient way of going about using setTimeout (rather than using componentDidMount & componentWillUnmount)?

Thank you in advance.

```
import React from 'react';
var Clock = React.createClass({
```

```
getInitialState: function() {
    return { currentCount: 10 };
  },
  componentDidMount: function() {
    this.countdown = setInterval(this.timer, 1000);
  },
  componentWillUnmount: function() {
    clearInterval(this.countdown);
  },
  timer: function() {
    this.setState({ currentCount: 10 });
  },
  render: function() {
    var displayCount = this.state.currentCount--;
    return (
      <section>
        {displayCount}
      </section>
    );
});
module.exports = Clock;
javascript
          reactis
                   settimeout
                               state
```

bind(this) is no longer needed, react does this on its own now. - Derek Mar 30 '16 at 3:36

- 1 your timer method does not update currentCount Bryan Chen Mar 30 '16 at 3:37
- 1 @Derek are you sure? I just got mine working by adding this.timer.bind(this) as this.timer on it's own did not work The worm Nov 23 '16 at 10:51
- 1 @Theworm @Derek is wrong, kind of. React.createClass (which is deprecated) autobinds methods, but class Clock extends Component doesn't auto bind. So it depends on how you're creating your components whether you need to bind. CallMeNorm Jan 10 at 18:54





**543** 1 5 21

I see 4 issues with your code:

- In your timer method you are always setting your current count to 10
- · You try to update the state in render method
- You do not use setState method to actually change the state
- You are not storing your intervalld in the state

Let's try to fix that:

```
componentDidMount: function() {
   var intervalId = setInterval(this.timer, 1000);
   // store intervalId in the state so it can be accessed later:
   this.setState({intervalId: intervalId});
},
componentWillUnmount: function() {
   // use intervalId from the state to clear the interval
   clearInterval(this.state.intervalId);
timer: function() {
   // setState method is used to update the state
   this.setState({ currentCount: this.state.currentCount -1 });
},
render: function() {
   // You do not need to decrease the value here
    return (
      <section>
       {this.state.currentCount}
      </section>
    );
```

This would result in a timer that decreases from 10 to -N. If you want timer that decreases to 0, you can use slightly modified version:

```
timer: function() {
   var newCount = this.state.currentCount - 1;
   if(newCount >= 0) {
       this.setState({ currentCount: newCount });
   } else {
       clearInterval(this.state.intervalId);
   }
},
```

18.8k 8 29 4

Thank you. This makes a lot of sense. I'm still very much a beginner and I'm trying to get a hold of how state works and what goes in which "chunks", like render. – Jose Mar 30 '16 at 3:47

I am wondering, though, is it necessary to use componentDidMount and componentWillUnmount to actually set the interval? EDIT: Just saw your most recent edit. :) — Jose Mar 30 '16 at 3:49

@Jose I think componentDidMount is the right place to trigger the client side events, so I would use it to initiate the countdown. What other method are you thinking about for initializing? – dotnetom Mar 30 '16 at 3:52

I didn't have anything else in particular in mind, but it seemed clunky to use so many "chunks" inside a component. I suppose it is just myself getting accustomed to how the bits and pieces work in React. Again, thank you! — Jose Mar 30 '16 at 3:54

@dotnetom why would mine be potentially failing saying cannot read currentCount of undefined in the timer method. I have mine set up exactly the same as yours just have the ES6 way of doing getinitial state. i.e. constructor(props) { super(props); this.state = { currentCount: 10 }; }; — The worm Nov 23 '16 at 10:10



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Updated 10-second countdown using class Clock extends Component

```
import React, { Component } from 'react';

class Clock extends Component {
   constructor(props){
      super(props);
      this.state = {currentCount: 10}
   }
   timer() {
      this.setState({
        currentCount: this.state.currentCount - 1
   })
   if(this.state.currentCount < 1) {
      clearInterval(this.intervalId);
   }
}</pre>
```

```
componentDidMount() {
    this.intervalId = setInterval(this.timer.bind(this), 1000);
  componentWillUnmount(){
    clearInterval(this.intervalId);
  }
  render() {
    return(
      <div>{this.state.currentCount}</div>
    );
module.exports = Clock;
                                 edited Apr 13 at 6:13
                                                               answered Apr 12 at 11:29
                                                                     Greg
96 3 7
```

