

Easier Set up and Clean up with Sandboxes



Nathan Taylor

SOFTWARE ENGINEER

@taylonr taylonr.com



What Is a Sandbox?





Self-contained unit



Unit tests should be
independent





Clean up in JavaScript is essential



Creating a Sandbox

```
const sandbox = sinon.createSandbox();
```



Configure a Sandbox

```
const configuredSandbox = sinon.createSandbox({  
  useFakeTimers: true,  
  useFakeServer: true  
});
```



Default Config

```
const sandbox = sinon.createSandbox();
```

```
console.log(new Date());
```

```
// Tue Jun 12 2018 19:00:00 GMT -0600
```

```
const sandbox = sinon.createSandbox(sinon.defaultConfig);
```

```
console.log(new Date());
```

```
// Wed Dec 31 1969 18:00:00 GMT -0600
```



Configuration After Creation

```
sandbox.useFakeTimers();
```



Demo: Using a Sandbox



Other Sandbox Functions



```
sandbox.verify();
```

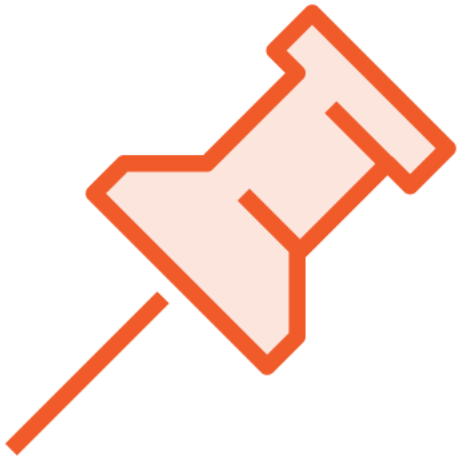
Sandbox Mocks



```
sandbox.verifyAndRestore();
```

Sandbox Mocks





Place verify near mocks



Replacing Functions

```
sandbox.replace(Wishlist, 'count', () => { return 2; });
```



Replacing Functions

```
sandbox.replace(Wishlist, 'count', () => { return 2; });
```

```
Wishlist.count = () => { return 2; }
```



Replacing Properties

```
sandbox.replace(Wishlist, 'count', 2);
```



Replacing Accessor Functions

`replaceGetter()`

`replaceSetter()`



Sandboxes simplify clean
up

