Miscellaneous JavaScript Topics

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Overview

Error Handling and Promises

Strict Mode

JSLint and JSHint

Modular JavaScript

Error Handling

try, catch, finally

```
try {
    throw new Error('Custom Error');
}
catch (e) {
    console.log(e.name + ' - ' + e.message);
}
```

What shows in the console?

Error - Custom Error

```
try {
    throw new Error('Custom Error');
}
catch (e) {
    console.log(e.name + ' - ' + e.message);
}
finally {
    console.log('Finally done.');
}
```

What shows in the console?

Error - Custom Error

Finally done.

```
try {
    var i = 42;
}
catch (e) {
    console.log(e.name + ' - ' + e.message);
}
finally {
    console.log('Finally done.');
}
```

What shows in the console?

Answer

Finally done.

```
try {
    throw new RangeError('Range Error');
}
catch (e) {
    if (e instanceof RangeError)
        console.log(e.name);
}
```

What shows in the console?

RangeError

Promises and Observables

Strict Mode

```
var actNow = function() {
    'use strict';
    newVar = 9;
};
actNow();
```

What shows in the console?

```
Uncaught ReferenceError
: newVar is not defined
```

```
var actNow = function() {
    newVar = 9;
};
actNow();
```

What shows in the console?

(no error)

```
var actNow = function() {
    var newVar = 9;
    delete newVar;
};
actNow();
```

What shows in the console?

(no error)

```
var actNow = function () {
    'use strict';
    var newVar = 9;
    delete newVar;
};
actNow();
```

What shows in the console?

Answer

Uncaught SyntaxError:

Delete of an unqualified identifier in strict mode.

```
var actNow = function () {
    var fn = function(a, a) {
    };
};
actNow();
```

What shows in the console?

(no error)

```
var actNow = function () {
    'use strict';
    var fn = function(a, a) {
    };
};
actNow();
```

What shows in the console?

Uncaught SyntaxError:

Duplicate parameter name not allowed in this context

```
var obj = {};
with (obj) {

}
```

What shows in the console?

```
(no error)
```

```
'use strict';
var obj = {};
with (obj) {

}
```

What shows in the console?

Uncaught SyntaxError:

Strict mode code may not include a with statement

JSLint and JSHint

```
var MyClass = function () {
    'use strict';
    this.id = 9;
};
var c = new MyClass();
console.log(c.id);
```

What shows in the console?

Unexpected 'this'.

Undeclared 'console'.

```
var MyClass = function () {
    this.id = 9;
};
var c = new MyClass();
console.log(c.id);
```

What shows in the console?

Expected 'use strict'
before 'this'.

```
var myClass = function () {
    'use strict';
    id = 9;
};
var c = new myClass();
console.log(c.id);
```

What shows in the console?

Undeclared 'id'.

Modular JavaScript

JavaScript Module Options

AMD

CommonJS

ES 6

SystemJS

Summary

- Error Handling

  - try, catch, finally

  - promises and observables

- Strict Mode

- JSLint and JSHint

- Modular JavaScript