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- Error □□□□
- □□□□□□
  - SyntaxError □□
  - ReferenceError □□
  - RangeError □□
  - TypeError □□
  - URIError □□
  - EvalError □□
  - □□
- □□□□□
- throw □□
- try...catch □□
- finally □□□
- □□□□

Error □□□

JavaScript □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ JavaScript □□□□ `Error` □□□□□□□□□□□□□□□□□□□□□□□□□□

```
var err = new Error('□□□');
err.message // "□□□"
```

□□□□□□□□□□ `Error()` □□□□□□□□□□□□□□□□ `err` □ `Error()` □□□□□□□□□□□□□□□□□□□□□□□□□□ `message` □□□□□□□□□□□□ `Error` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

JavaScript □□□□□□□□□ `Error` □□□□□□□□ `message` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ JavaScript □□□□ `Error` □□□□□□ `name` □

`stack`□□□

SyntaxError □□

`SyntaxError` □□□□□□□□□□□□□□□□□

```
// □□□□□□
var 1a;
// Uncaught SyntaxError: Invalid or unexpected token

// □□□□□
console.log 'hello');
// Uncaught SyntaxError: Unexpected string
```

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `SyntaxError` □□□□□□□□□□ “token □□
”□□□□□□□□□□ “□□□□□□□□□ ”□

ReferenceError □□

`ReferenceError` □□□□□□□□□□□□□□□□□□□□□□□

```
// □□□□□□□□□□□□
unknownVariable
// Uncaught ReferenceError: unknownVariable is not defined
```

□□□□□□□□□□□□□□□□□□□

TypeError □□

`TypeError`
□□□

```
err1.message // "□□□□□"
err2.message // "□□□□□□□□□□□□□□□□□□□□"
err3.message // "□□□□□□□□□□□□□□□□"
```

□□□□□

□□ JavaScript □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
function UserError(message) {
  this.message = message || '□□□□□';
  this.name = 'UserError';
}

UserError.prototype = new Error();
UserError.prototype.constructor = UserError;
```

□□□□□□□□□□□□□□□ `UserError` □□□□□□ `Error` □□□□□□□□□□□□□□□□□□□□

```
function UserError(message) {
  this.message = message || '□□□□';
  this.name = 'UserError';
}

throw new UserError('□□□□');
// Uncaught UserError {message: "□□□□", name: "UserError"}
```

□□□□□□ `throw` □□□□□□ `UserError` □□□

□□□ `throw` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
// □□□□□□□□
throw 'Error□';
// Uncaught Error□

// □□□□□□□
throw 42;
// Uncaught 42

// □□□□□□□□
throw true;
// Uncaught true

// □□□□□□□
throw {
  toString: function () {
    return 'Error!';
  }
};
// Uncaught {toString: ƒ}
```

□□ JavaScript □□□□□□□ `throw` □□□□□□□□□□□□□□□□ `throw` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

try...catch □□

□□□□□□□□□□□□□□□ JavaScript □□□ `try...catch` □□□□□□□□□□□□□□□□□□□□□□□□

```
try {
  throw new Error('□□□!');
} catch (e) {
  console.log(e.name + ": " + e.message);
  console.log(e.stack);
}
// Error: □□□!
//   at <anonymous>:3:9
//   ...
```

□□□□□□ `try` □□□□□□□□□□□□□□ `throw` □□□□ JavaScript □□□□□□□□□□□□□□□□
`catch` □□□□□□□□□□□□ `catch` □□□□□□□□ `catch` □□□□□□□□□□ `try` □□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `try...catch` □□□□□□□□□□□□□□□□□□□□□□

```
try {
  f();
} catch(e) {
  // □□□□
}
```

□□□□□□□□□□□ `f` □□□□□□□□□□ `catch` □□□□□□□□□□□□□□□□

`catch` □□□

```
try {
  throw "□□□";
} catch (e) {
  console.log(111);
}
console.log(222);
// 111
// 222
```

□□□□□□ `try` □□□□□□□□□□ `catch` □□□□□□□□□□□□□□□□□□□□

`catch` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `try...catch` □□□

```
var n = 100;

try {
  throw n;
```

```
} catch (e) {
  if (e <= 50) {
    // ...
  } else {
    throw e;
  }
}
// Uncaught 100
```

□□□□□□ `catch` □□□□□□□□□□□□□□

□□□□□□□□□□□□ `catch` □□□□□□□□□□□□□□□

```
try {
  foo.bar();
} catch (e) {
  if (e instanceof EvalError) {
    console.log(e.name + ": " + e.message);
  } else if (e instanceof RangeError) {
    console.log(e.name + ": " + e.message);
  }
  // ...
}
```

□□□□□□ `catch` □□□□□□□□□□□□□□□□ `EvalError` □□ `RangeError` □□□□□□□□□□

finally □□□

`try...catch` □□□□□□□□□□□ `finally` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
function cleansUp() {
  try {
    throw new Error('□□□……');
    console.log('□□□□□□□');
  } finally {
    console.log('□□□□□□□');
  }
}
```

```
cleansUp()
// □□□□□□□
// Uncaught Error: □□□……
//    at cleansUp (<anonymous>:3:11)
//    at <anonymous>:10:1
```

□□□□□□□□□□ `catch` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `finally` □□□□□□□□□□□□□□□□□□

```
function idle(x) {
  try {
    console.log(x);
    return 'result';
  } finally {
    console.log('FINALLY');
  }
}

idle('hello')
// hello
// FINALLY
```

□□□□□□ `try` □□□□□□□□□□□□□□□□□□ `return` □□□□□ `finally` □□□□□□□□□□□□□□□□□□□□□□□□□□□□ `result` □

□□□□□□□□ `return` □□□□□□□□□ `finally` □□□□□□□□□ `finally` □□□□□□□□□□□□□

```
var count = 0;
function countUp() {
  try {
    return count;
  } finally {
    count++;
  }
}

countUp()
// 0
count
// 1
```

□□□□□□□□ `return` □□□□□ `count` □□□□□ `finally` □□□□□□□□□□□□□

□□□ `finally` □□□□□□□□□□□□

```
openFile();

try {
  writeFile(Data);
} catch(e) {
  handleError(e);
} finally {
  closeFile();
}
```

□□□□□□□□□□□□□□□□□ `try` □□□□□□□□□□□□□□□□□□□□□□□□ `finally`
□□□□□□□□□□□□□□□□□□□□□□ `catch` □□□□□□□□□□□□ `finally` □□□□□□□□

□□□□□□□□□□ `try...catch...finally` □□□□□□□□□□□□

```
function f() {
  try {
    console.log(0);
    throw 'bug';
  } catch(e) {
    console.log(1);
    return true; // □□□□□□□□□□ finally □□□□□□□□□□
    console.log(2); // □□□□□
  } finally {
    console.log(3);
    return false; // □□□□□□□□□□□□□ return
    console.log(4); // □□□□□
  }

  console.log(5); // □□□□□
}

var result = f();
// 0
// 1
// 3
```

```
result
// false
```

□□□□□□ `catch` □□□□□□□□□□□□□□□ `finally` □□□□

`catch` □□□□□□□□□□□ `finally` □□□□□□□□□□ `return` □□□□□ `throw` □□□

```
function f() {
  try {
    throw '□□□□';
  } catch(e) {
    console.log('□□□□□□□□');
    throw e; // □□□□□□□□finally□□□□□
  } finally {
    return false; // □□□□
  }
}

try {
  f();
} catch(e) {
  // □□□□□□
  console.log('caught outer "bogus"');
}

//  □□□□□□□□
```

□□□□□□□□ `catch` □□□□□□□□□ `throw` □□□□□□□□ `finally` □□□□□□□ `return false` □□□□□□□□□□□□□□□□□□□□□□□ `catch` □□□□□□□□□□

`try` □□□□□□□□□□□□□ `try` □□□□

```
try {
  try {
    consle.log('Hello world!'); // □□
  }
  finally {
    console.log('Finally');
  }
  console.log('Will I run?');
} catch(error) {
```

```
  console.error(error.message);
}
// Finally
// consle is not defined
```

□□□□□□ `try`□□□□□□ `try`□□□□ `try`□□□ `console`□□□□□□□□□□□□□ `finally`□□□□□□□□□□□□□□□ `catch`□□□

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- Jani Hartikainen, JavaScript Errors and How to Fix Them

□□□ #2
□ □□□ □□□ 2018-01-13 09:38:32 UTC
□ □□□ □□□ 2021-05-12 00:08:11 UTC