

JavaScript Errors Throw and Try to Catch

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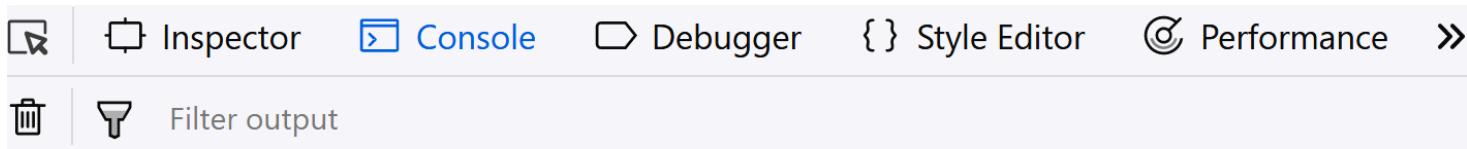
JavaScript uses `throw` to create custom errors and `try...catch` to handle them, preventing the program from crashing. The `finally` block ensures that code runs after error handling, regardless of success or failure.

- **`throw`**: Creates custom errors and stops code execution.
- **`try...catch`**: Catches and handles errors to prevent crashes.
- **`finally`**: Runs code after try and catch, regardless of errors.
- **Custom Errors**: Create custom error types by extending the `Error` class.

```
try {
    dadalert("Welcome Fellow Geek!");
}
catch (err) {
    console.log(err);
}
```



Output: In the above code, we make use of 'dadalert' which is not a reserved keyword and is neither defined hence we get the error.



ReferenceError: "dadalert is not defined"

Syntax

The `try` statement allows you to check whether a specific block of code contains an error or not. The `catch` statement allows you to display the error if any are found in the `try` block.

```
try {
    Try Block to check for errors.
}
catch(err) {
    Catch Block to display errors.
}
```

Output: In the above code, our catch block will not run as there's no error in the above code and hence we get the output 'Value of variable a is: 10'.

Javascript Throws BlockThe `throw` Statement

The `throw` statement allows you to create custom error messages and throw exceptions manually.

```
throw new Error("Error message");
```

Key Point:

- throw creates a custom error.
- It can be used to stop the execution of a program and pass control to error handling mechanisms.
- You can throw any type of object (string, number, object, etc.), but it's common to throw an instance of Error.

```
try {
  throw new Error('Yeah... Sorry');
}
catch (e) {
  console.log(e);
}
```



Output:

Console

Error: "Yeah... Sorry"

The finally Block

The finally Statement runs unconditionally after the execution of the try/catch block. Its syntax is

```
try {
  console.log('try');
} catch (e) {
  console.log('catch');
} finally {
  console.log('finally');
}
```



Output: The Finally Block can also override the message of the catch block so be careful while using it.

Creating Custom Error Types

You can create custom error types by extending the built-in Error class. This can be useful for more specific error handling.

```
function validateInput(input) {
  if (input < 0) {
    throw new ValidationError("Input must be a positive number");
  }
  return "Valid input";
}
```



Output:



Error Handling - try and catch in JavaScript

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