**JavaScript error reference**

Below, you'll find a list of errors which are thrown by JavaScript. These errors can be a helpful debugging aid, but the reported problem isn't always immediately clear. The pages below will provide additional details about these errors. Each error is an object based upon the [Error](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Error) object, and has a name and a message.

Errors displayed in the Web console may include a link to the corresponding page below to help you quickly comprehend the problem in your code.

For a beginner's introductory tutorial on fixing JavaScript errors, see [What went wrong? Troubleshooting JavaScript](https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps/What_went_wrong).

[**List of errors**](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors#list_of_errors)

In this list, each page is listed by name (the type of error) and message (a more detailed human-readable error message). Together, these two properties provide a starting point toward understanding and resolving the error. For more information, follow the links below!

* [Error: Permission denied to access property "x"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Property_access_denied)
* [InternalError: too much recursion](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Too_much_recursion)
* [RangeError: argument is not a valid code point](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Not_a_codepoint)
* [RangeError: invalid array length](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Invalid_array_length)
* [RangeError: invalid date](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Invalid_date)
* [RangeError: precision is out of range](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Precision_range)
* [RangeError: radix must be an integer](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Bad_radix)
* [RangeError: repeat count must be less than infinity](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Resulting_string_too_large)
* [RangeError: repeat count must be non-negative](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Negative_repetition_count)
* [ReferenceError: "x" is not defined](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Not_defined)
* [ReferenceError: assignment to undeclared variable "x"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Undeclared_var)
* [ReferenceError: can't access lexical declaration`X' before initialization](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Cant_access_lexical_declaration_before_init)
* [ReferenceError: deprecated caller or arguments usage](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Deprecated_caller_or_arguments_usage)
* [ReferenceError: invalid assignment left-hand side](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Invalid_assignment_left-hand_side)
* [ReferenceError: reference to undefined property "x"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Undefined_prop)
* [SyntaxError: "0"-prefixed octal literals and octal escape seq. are deprecated](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Deprecated_octal)
* [SyntaxError: "use strict" not allowed in function with non-simple parameters](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Strict_Non_Simple_Params)
* [SyntaxError: "x" is a reserved identifier](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Reserved_identifier)
* [SyntaxError: JSON.parse: bad parsing](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/JSON_bad_parse)
* [SyntaxError: Malformed formal parameter](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Malformed_formal_parameter)
* [SyntaxError: Unexpected '#' used outside of class body](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Hash_outside_class)
* [SyntaxError: Unexpected token](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Unexpected_token)
* [SyntaxError: Using //@ to indicate sourceURL pragmas is deprecated. Use //# instead](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Deprecated_source_map_pragma)
* [SyntaxError: a declaration in the head of a for-of loop can't have an initializer](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Invalid_for-of_initializer)
* [SyntaxError: applying the 'delete' operator to an unqualified name is deprecated](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Delete_in_strict_mode)
* [SyntaxError: for-in loop head declarations may not have initializers](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Invalid_for-in_initializer)
* [SyntaxError: function statement requires a name](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Unnamed_function_statement)
* [SyntaxError: identifier starts immediately after numeric literal](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Identifier_after_number)
* [SyntaxError: illegal character](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Illegal_character)
* [SyntaxError: invalid regular expression flag "x"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Bad_regexp_flag)
* [SyntaxError: missing ) after argument list](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_parenthesis_after_argument_list)
* [SyntaxError: missing ) after condition](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_parenthesis_after_condition)
* [SyntaxError: missing : after property id](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_colon_after_property_id)
* [SyntaxError: missing ; before statement](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_semicolon_before_statement)
* [SyntaxError: missing = in const declaration](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_initializer_in_const)
* [SyntaxError: missing ] after element list](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_bracket_after_list)
* [SyntaxError: missing formal parameter](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_formal_parameter)
* [SyntaxError: missing name after . operator](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_name_after_dot_operator)
* [SyntaxError: missing variable name](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/No_variable_name)
* [SyntaxError: missing } after function body](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_curly_after_function_body)
* [SyntaxError: missing } after property list](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Missing_curly_after_property_list)
* [SyntaxError: redeclaration of formal parameter "x"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Redeclared_parameter)
* [SyntaxError: return not in function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Bad_return_or_yield)
* [SyntaxError: test for equality (==) mistyped as assignment (=)?](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Equal_as_assign)
* [SyntaxError: unterminated string literal](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Unterminated_string_literal)
* [TypeError: "x" has no properties](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/No_properties)
* [TypeError: "x" is (not) "y"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Unexpected_type)
* [TypeError: "x" is not a constructor](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Not_a_constructor)
* [TypeError: "x" is not a function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Not_a_function)
* [TypeError: "x" is not a non-null object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/No_non-null_object)
* [TypeError: "x" is read-only](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Read-only)
* [TypeError: 'x' is not iterable](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/is_not_iterable)
* [TypeError: More arguments needed](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/More_arguments_needed)
* [TypeError: Reduce of empty array with no initial value](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Reduce_of_empty_array_with_no_initial_value)
* [TypeError: X.prototype.y called on incompatible type](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Called_on_incompatible_type)
* [TypeError: can't access dead object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Dead_object)
* [TypeError: can't access property "x" of "y"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Cant_access_property)
* [TypeError: can't assign to property "x" on "y": not an object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Cant_assign_to_property)
* [TypeError: can't define property "x": "obj" is not extensible](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Cant_define_property_object_not_extensible)
* [TypeError: can't delete non-configurable array element](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Non_configurable_array_element)
* [TypeError: can't redefine non-configurable property "x"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Cant_redefine_property)
* [TypeError: cannot use 'in' operator to search for 'x' in 'y'](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/in_operator_no_object)
* [TypeError: cyclic object value](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Cyclic_object_value)
* [TypeError: invalid 'instanceof' operand 'x'](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/invalid_right_hand_side_instanceof_operand)
* [TypeError: invalid Array.prototype.sort argument](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Array_sort_argument)
* [TypeError: invalid assignment to const "x"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Invalid_const_assignment)
* [TypeError: property "x" is non-configurable and can't be deleted](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Cant_delete)
* [TypeError: setting getter-only property "x"](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Getter_only)
* [URIError: malformed URI sequence](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Malformed_URI)
* [Warning: 08/09 is not a legal ECMA-262 octal constant](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Bad_octal)
* [Warning: -file- is being assigned a //# sourceMappingURL, but already has one](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Already_has_pragma)
* [Warning: Date.prototype.toLocaleFormat is deprecated](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Deprecated_toLocaleFormat)
* [Warning: JavaScript 1.6's for-each-in loops are deprecated](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/For-each-in_loops_are_deprecated)
* [Warning: String.x is deprecated; use String.prototype.x instead](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Deprecated_String_generics)
* [Warning: expression closures are deprecated](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Deprecated_expression_closures)
* [Warning: unreachable code after return statement](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Errors/Stmt_after_return)