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RaySinlao Added parenthesis to 'good' example in 8.2

24e7fd0 on 4 Feb 2016

171 contributors



and others

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History



Airbnb JavaScript Style Guide() {

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Table of Contents

1. [Types](#)
2. [References](#)
3. [Objects](#)
4. [Arrays](#)
5. [Destructuring](#)
6. [Strings](#)
7. [Functions](#)
8. [Arrow Functions](#)
9. [Constructors](#)
10. [Modules](#)
11. [Iterators and Generators](#)
12. [Properties](#)
13. [Variables](#)

14. [Hoisting](#)
15. [Comparison Operators & Equality](#)
16. [Blocks](#)
17. [Comments](#)
18. [Whitespace](#)
19. [Commas](#)
20. [Semicolons](#)
21. [Type Casting & Coercion](#)
22. [Naming Conventions](#)
23. [Accessors](#)
24. [Events](#)
25. [jQuery](#)
26. [ECMAScript 5 Compatibility](#)
27. [ECMAScript 6 Styles](#)
28. [Testing](#)
29. [Performance](#)
30. [Resources](#)
31. [In the Wild](#)
32. [Translation](#)
33. [The JavaScript Style Guide Guide](#)
34. [Chat With Us About JavaScript](#)
35. [Contributors](#)
36. [License](#)

Types

- [1.1](#) Primitives: When you access a primitive type you work directly on its value.

- `string`
- `number`
- `boolean`
- `null`
- `undefined`

```
const foo = 1; let bar = foo; bar = 9; console.log(foo, bar); // =>
1, 9
```

- [1.2](#) Complex: When you access a complex type you work on a reference to its value.

- `object`
- `array`
- `function`

```
const foo = [1, 2]; const bar = foo; bar[0] = 9;
console.log(foo[0], bar[0]); // => 9, 9
```

[↑](#) back to top

References

- 2.1 Use `const` for all of your references; avoid using `var`. eslint: `prefer-const`, `no-const-assign`

Why? This ensures that you can't reassign your references, which can lead to bugs and difficult to comprehend code.

```
// bad var a = 1; var b = 2; // good const a = 1; const b = 2;
```

- 2.2 If you must reassign references, use `let` instead of `var`. eslint: `no-var` jscs: `disallowVar`

Why? `let` is block-scoped rather than function-scoped like `var`.

```
// bad var count = 1; if (true) { count += 1; } // good, use the
let. let count = 1; if (true) { count += 1; }
```

- 2.3 Note that both `let` and `const` are block-scoped.

```
// const and let only exist in the blocks they are defined in. {
let a = 1; const b = 1; } console.log(a); // ReferenceError
console.log(b); // ReferenceError
```

[↑](#) back to top

Objects

- 3.1 Use the literal syntax for object creation. eslint: `no-new-object`

```
// bad const item = new Object(); // good const item = {};
```

- 3.2 If your code will be executed in browsers in script context, don't use [reserved words](#) as keys. It won't work in IE8. [More info](#). It's OK to use them in ES6 modules and server-side code. jscs: `disallowIdentifierNames`

```
// bad const superman = { default: { clark: 'kent' }, private:
true, }; // good const superman = { defaults: { clark: 'kent' },
hidden: true, };
```

- 3.3 Use readable synonyms in place of reserved words. jscs:

`disallowIdentifierNames`

```
// bad const superman = { class: 'alien', }; // bad const superman
= { klass: 'alien', }; // good const superman = { type: 'alien', };
```

- 3.4 Use computed property names when creating objects with dynamic property names.

Why? They allow you to define all the properties of an object in one place.

```
function getKey(k) { return `a key named ${k}`; } // bad const obj
= { id: 5, name: 'San Francisco', }; obj[getKey('enabled')] = true;
// good const obj = { id: 5, name: 'San Francisco',
[getKey('enabled')]: true, };
```

- 3.5 Use object method shorthand. eslint: `object-shorthand` jscs:

`requireEnhancedObjectLiterals`

```
// bad const atom = { value: 1, addValue: function (value) { return
atom.value + value; }, }; // good const atom = { value: 1,
addValue(value) { return atom.value + value; }, };
```

- 3.6 Use property value shorthand. eslint: `object-shorthand` jscs:

`requireEnhancedObjectLiterals`

Why? It is shorter to write and descriptive.

```
const lukeSkywalker = 'Luke Skywalker'; // bad const obj = {
lukeSkywalker: lukeSkywalker, }; // good const obj = {
lukeSkywalker, };
```

- 3.7 Group your shorthand properties at the beginning of your object declaration.

Why? It's easier to tell which properties are using the shorthand.

```
const anakinSkywalker = 'Anakin Skywalker'; const lukeSkywalker =
'Luke Skywalker'; // bad const obj = { episodeOne: 1,
twoJediWalkIntoACantina: 2, lukeSkywalker, episodeThree: 3,
mayTheFourth: 4, anakinSkywalker, }; // good const obj = {
lukeSkywalker, anakinSkywalker, episodeOne: 1,
twoJediWalkIntoACantina: 2, episodeThree: 3, mayTheFourth: 4, };
```

- 3.8 Only quote properties that are invalid identifiers. eslint: `quote-props` jscs:

`disallowQuotedKeysInObjects`

Why? In general we consider it subjectively easier to read. It improves syntax highlighting, and is also more easily optimized by many JS engines.

```
// bad const bad = { 'foo': 3, 'bar': 4, 'data-blah': 5, }; // good  
const good = { foo: 3, bar: 4, 'data-blah': 5, };;
```

[↑](#) back to top

Arrays

- 4.1 Use the literal syntax for array creation. eslint: `no-array-constructor`

```
// bad const items = new Array(); // good const items = [];
```

- 4.2 Use `Array#push` instead of direct assignment to add items to an array.

```
const someStack = []; // bad someStack[someStack.length] =  
'abracadabra'; // good someStack.push('abracadabra');
```

- 4.3 Use array spreads `...` to copy arrays.

```
// bad const len = items.length; const itemsCopy = []; let i; for  
(i = 0; i < len; i++) { itemsCopy[i] = items[i]; } // good const  
itemsCopy = [...items];
```

- 4.4 To convert an array-like object to an array, use `Array#from`.

```
const foo = document.querySelectorAll('.foo'); const nodes =  
Array.from(foo);
```

[↑](#) back to top

Destructuring

- 5.1 Use object destructuring when accessing and using multiple properties of an object. jscs: `requireObjectDestructuring`

Why? Destructuring saves you from creating temporary references for those properties.

```
// bad function getFullName(user) { const firstName =  
user.firstName; const lastName = user.lastName; return  
`${firstName} ${lastName}`; } // good function getFullName(user) {  
const { firstName, lastName } = user; return `${firstName}  
${lastName}`; } // best function getFullName({ firstName, lastName
```

```
}) { return `${firstName} ${lastName}`; }
```

- 5.2 Use array destructuring. jscs: `requireArrayDestructuring`

```
const arr = [1, 2, 3, 4]; // bad const first = arr[0]; const second = arr[1]; // good const [first, second] = arr;
```

- 5.3 Use object destructuring for multiple return values, not array destructuring.

Why? You can add new properties over time or change the order of things without breaking call sites.

```
// bad function processInput(input) { // then a miracle occurs
return [left, right, top, bottom]; } // the caller needs to think
about the order of return data const [left, __, top] =
processInput(input); // good function processInput(input) { // then
a miracle occurs return { left, right, top, bottom }; } // the
caller selects only the data they need const { left, right } =
processInput(input);
```

[↑](#) back to top

Strings

- 6.1 Use single quotes `' '` for strings. eslint: `quotes` jscs: `validateQuoteMarks`

```
// bad const name = "Capt. Janeway"; // good const name = 'Capt.
Janeway';
```

- 6.2 Strings that cause the line to go over 100 characters should be written across multiple lines using string concatenation.
- 6.3 Note: If overused, long strings with concatenation could impact performance. [jsPerf](#) & [Discussion](#).

```
// bad const errorMessage = 'This is a super long error that was
thrown because of Batman. When you stop to think about how Batman
had anything to do with this, you would get nowhere fast.'; // bad
const errorMessage = 'This is a super long error that was thrown
because \ of Batman. When you stop to think about how Batman had
anything to do \ with this, you would get nowhere \ fast.'; // good
const errorMessage = 'This is a super long error that was thrown
because ' + 'of Batman. When you stop to think about how Batman had
anything to do ' + 'with this, you would get nowhere fast.';
```

- 6.4 When programmatically building up strings, use template strings instead of concatenation. eslint: `prefer-template` jscs: `requireTemplateStrings`

Why? Template strings give you a readable, concise syntax with proper newlines and string interpolation features.

```
// bad function sayHi(name) { return 'How are you, ' + name + '?'; }
// bad function sayHi(name) { return ['How are you, ', name, '?'].join(); }
// good function sayHi(name) { return `How are you, ${name}?`; }
```

- 6.5 Never use `eval()` on a string, it opens too many vulnerabilities.

[↑](#) [back to top](#)

Functions

- 7.1 Use function declarations instead of function expressions. jscs:

`requireFunctionDeclarations`

Why? Function declarations are named, so they're easier to identify in call stacks. Also, the whole body of a function declaration is hoisted, whereas only the reference of a function expression is hoisted. This rule makes it possible to always use [Arrow Functions](#) in place of function expressions.

```
// bad const foo = function () { }; // good function foo() { }
```

- 7.2 Immediately invoked function expressions: eslint: `wrap-iife` jscs:

`requireParenthesesAroundIIFE`

Why? An immediately invoked function expression is a single unit - wrapping both it, and its invocation parens, in parens, cleanly expresses this. Note that in a world with modules everywhere, you almost never need an IIFE.

```
// immediately-invoked function expression (IIFE) (function () {
console.log('Welcome to the Internet. Please follow me.')}());
```

- 7.3 Never declare a function in a non-function block (if, while, etc). Assign the function to a variable instead. Browsers will allow you to do it, but they all interpret it differently, which is bad news bears. eslint: `no-loop-func`
- 7.4 Note: ECMA-262 defines a `block` as a list of statements. A function declaration is not a statement. [Read ECMA-262's note on this issue.](#)

```
// bad if (currentUser) { function test() { console.log('Nope.')} }
// good let test; if (currentUser) { test = () => {
console.log('Yup.')} }
```

- 7.5 Never name a parameter `arguments`. This will take precedence over the `arguments` object that is given to every function scope.

```
// bad function nope(name, options, arguments) { // ...stuff... }
// good function yup(name, options, args) { // ...stuff... }
```

- 7.6 Never use `arguments`, opt to use rest syntax `...` instead.

Why? `...` is explicit about which arguments you want pulled. Plus rest arguments are a real Array and not Array-like like `arguments`.

```
// bad function concatenateAll() { const args =  
Array.prototype.slice.call(arguments); return args.join(''); } //  
good function concatenateAll(...args) { return args.join(''); }
```

- 7.7 Use default parameter syntax rather than mutating function arguments.

```
// really bad function handleThings(opts) { // No! We shouldn't  
mutate function arguments. // Double bad: if opts is falsy it'll be  
set to an object which may // be what you want but it can introduce  
subtle bugs. opts = opts || {}; // ... } // still bad function  
handleThings(opts) { if (opts === void 0) { opts = {}; } // ... }  
// good function handleThings(opts = {}) { // ... }
```

- 7.8 Avoid side effects with default parameters.

Why? They are confusing to reason about.

```
var b = 1; // bad function count(a = b++) { console.log(a); }  
count(); // 1 count(); // 2 count(3); // 3 count(); // 3
```

- 7.9 Always put default parameters last.

```
// bad function handleThings(opts = {}, name) { // ... } // good  
function handleThings(name, opts = {}) { // ... }
```

- 7.10 Never use the Function constructor to create a new function.

Why? Creating a function in this way evaluates a string similarly to `eval()`, which opens vulnerabilities.

```
// bad var add = new Function('a', 'b', 'return a + b'); // still  
bad var subtract = Function('a', 'b', 'return a - b');
```

- 7.11 Spacing in a function signature.

Why? Consistency is good, and you shouldn't have to add or remove a space when adding or removing a name.

```
// bad const f = function(){}; const g = function (){}; const h =  
function() {}; // good const x = function () {}; const y = function  
a() {};
```


- 7.12 Never mutate parameters. eslint: `no-param-reassign`

Why? Manipulating objects passed in as parameters can cause unwanted variable side effects in the original caller.

```
// bad function f1(obj) { obj.key = 1; }; // good function f2(obj)
{ const key = Object.prototype.hasOwnProperty.call(obj, 'key') ?
obj.key : 1; };
```

- 7.13 Never reassign parameters. eslint: `no-param-reassign`

Why? Reassigning parameters can lead to unexpected behavior, especially when accessing the `arguments` object. It can also cause optimization issues, especially in V8.

```
// bad function f1(a) { a = 1; } function f2(a) { if (!a) { a = 1;
} } // good function f3(a) { const b = a || 1; } function f4(a = 1)
{ }
```

[↑](#) back to top

Arrow Functions

- 8.1 When you must use function expressions (as when passing an anonymous function), use arrow function notation. eslint: `prefer-arrow-callback`, `arrow-spacing` jscs: `requireArrowFunctions`

Why? It creates a version of the function that executes in the context of `this`, which is usually what you want, and is a more concise syntax.

Why not? If you have a fairly complicated function, you might move that logic out into its own function declaration.

```
// bad [1, 2, 3].map(function (x) { const y = x + 1; return x * y;
}); // good [1, 2, 3].map((x) => { const y = x + 1; return x * y;
});
```

- 8.2 If the function body consists of a single expression, omit the braces and use the implicit return. Otherwise, keep the braces and use a `return` statement. eslint: `arrow-parens`, `arrow-body-style` jscs: `disallowParenthesesAroundArrowParam`, `requireShorthandArrowFunctions`

Why? Syntactic sugar. It reads well when multiple functions are chained together.

Why not? If you plan on returning an object.

```
// good [1, 2, 3].map(number => `A string containing the
${number}`); // bad [1, 2, 3].map(number => { const nextNumber =
number + 1; `A string containing the ${nextNumber}`; }); // good
[1, 2, 3].map((number) => { const nextNumber = number + 1; return
`A string containing the ${nextNumber}`; });
```

- 8.3 In case the expression spans over multiple lines, wrap it in parentheses for better readability.

Why? It shows clearly where the function starts and ends.

```
// bad [1, 2, 3].map(number => 'As time went by, the string
containing the ' + `${number}` became much longer. So we needed to
break it over multiple ' + 'lines.' ); // good [1, 2, 3].map(number
=> ( `As time went by, the string containing the ${number}` became
much ` + 'longer. So we needed to break it over multiple lines.'
));
```

- 8.4 If your function takes a single argument and doesn't use braces, omit the parentheses. Otherwise, always include parentheses around arguments. eslint:

`arrow-parens` jscs: `disallowParenthesesAroundArrowParam`

Why? Less visual clutter.

```
// bad [1, 2, 3].map((x) => x * x); // good [1, 2, 3].map(x => x *
x); // good [1, 2, 3].map(number => ( `A long string with the
${number}. It's so long that we've broken it ` + 'over multiple
lines!' )); // bad [1, 2, 3].map(x => { const y = x + 1; return x *
y; }); // good [1, 2, 3].map((x) => { const y = x + 1; return x *
y; });
```

[↑](#) back to top

Constructors

- 9.1 Always use `class`. Avoid manipulating `prototype` directly.

Why? `class` syntax is more concise and easier to reason about.

```
// bad function Queue(contents = []) { this._queue = [...contents];
} Queue.prototype.pop = function () { const value = this._queue[0];
this._queue.splice(0, 1); return value; } // good class Queue {
constructor(contents = []) { this._queue = [...contents]; } pop() {
const value = this._queue[0]; this._queue.splice(0, 1); return
value; } }
```

- 9.2 Use `extends` for inheritance.

Why? It is a built-in way to inherit prototype functionality without breaking

```
instanceof.
```

```
// bad const inherits = require('inherits'); function
PeekableQueue(contents) { Queue.apply(this, contents); }
inherits(PeekableQueue, Queue); PeekableQueue.prototype.peek =
function () { return this._queue[0]; } // good class PeekableQueue
extends Queue { peek() { return this._queue[0]; } }
```

- 9.3 Methods can return `this` to help with method chaining.

```
// bad Jedi.prototype.jump = function () { this.jumping = true;
return true; }; Jedi.prototype.setHeight = function (height) {
this.height = height; }; const luke = new Jedi(); luke.jump(); //
=> true luke.setHeight(20); // => undefined // good class Jedi {
jump() { this.jumping = true; return this; } setHeight(height) {
this.height = height; return this; } } const luke = new Jedi();
luke.jump().setHeight(20);
```

- 9.4 It's okay to write a custom `toString()` method, just make sure it works successfully and causes no side effects.

```
class Jedi { constructor(options = {}) { this.name = options.name
|| 'no name'; } getName() { return this.name; } toString() { return
`Jedi - ${this.getName()}`; } }
```

[↑](#) back to top

Modules

- 10.1 Always use modules (`import / export`) over a non-standard module system. You can always transpile to your preferred module system.

Why? Modules are the future, let's start using the future now.

```
// bad const AirbnbStyleGuide = require('./AirbnbStyleGuide');
module.exports = AirbnbStyleGuide.es6; // ok import
AirbnbStyleGuide from './AirbnbStyleGuide'; export default
AirbnbStyleGuide.es6; // best import { es6 } from
'./AirbnbStyleGuide'; export default es6;
```

- 10.2 Do not use wildcard imports.

Why? This makes sure you have a single default export.

```
// bad import * as AirbnbStyleGuide from './AirbnbStyleGuide'; //
good import AirbnbStyleGuide from './AirbnbStyleGuide';
```

- [10.3](#) And do not export directly from an import.

Why? Although the one-liner is concise, having one clear way to import and one clear way to export makes things consistent.

```
// bad // filename es6.js export { es6 as default } from
'./airbnbStyleGuide'; // good // filename es6.js import { es6 }
from './AirbnbStyleGuide'; export default es6;
```

[↑](#) [back to top](#)

Iterators and Generators

- [11.1](#) Don't use iterators. Prefer JavaScript's higher-order functions like `map()` and `reduce()` instead of loops like `for-of`. eslint: `no-iterator`

Why? This enforces our immutable rule. Dealing with pure functions that return values is easier to reason about than side-effects.

```
const numbers = [1, 2, 3, 4, 5]; // bad let sum = 0; for (let num
of numbers) { sum += num; } sum === 15; // good let sum = 0;
numbers.forEach(num => sum += num); sum === 15; // best (use the
functional force) const sum = numbers.reduce((total, num) => total
+ num, 0); sum === 15;
```

- [11.2](#) Don't use generators for now.

Why? They don't transpile well to ES5.

[↑](#) [back to top](#)

Properties

- [12.1](#) Use dot notation when accessing properties. eslint: `dot-notation` jscs: `requireDotNotation`

```
const luke = { jedi: true, age: 28, }; // bad const isJedi =
luke['jedi']; // good const isJedi = luke.jedi;
```

- [12.2](#) Use subscript notation `[]` when accessing properties with a variable.

```
const luke = { jedi: true, age: 28, }; function getProp(prop) {
return luke[prop]; } const isJedi = getProp('jedi');
```

[↑](#) [back to top](#)

Variables

- **13.1** Always use `const` to declare variables. Not doing so will result in global variables. We want to avoid polluting the global namespace. Captain Planet warned us of that.

```
// bad superPower = new SuperPower(); // good const superPower =  
new SuperPower();
```

- **13.2** Use one `const` declaration per variable. eslint: `one-var` jscs: `disallowMultipleVarDecl`

Why? It's easier to add new variable declarations this way, and you never have to worry about swapping out a `;` for a `,` or introducing punctuation-only diffs.

```
// bad const items = getItem(), goSportsTeam = true, dragonball =  
'z'; // bad // (compare to above, and try to spot the mistake)  
const items = getItem(), goSportsTeam = true; dragonball = 'z'; //  
good const items = getItem(); const goSportsTeam = true; const  
dragonball = 'z';
```

- **13.3** Group all your `const` s and then group all your `let` s.

Why? This is helpful when later on you might need to assign a variable depending on one of the previous assigned variables.

```
// bad let i, len, dragonball, items = getItem(), goSportsTeam =  
true; // bad let i; const items = getItem(); let dragonball; const  
goSportsTeam = true; let len; // good const goSportsTeam = true;  
const items = getItem(); let dragonball; let i; let length;
```

- **13.4** Assign variables where you need them, but place them in a reasonable place.

Why? `let` and `const` are block scoped and not function scoped.

```
// bad - unnecessary function call function checkName(hasName) {  
const name = getName(); if (hasName === 'test') { return false; }  
if (name === 'test') { this.setName(''); return false; } return  
name; } // good function checkName(hasName) { if (hasName ===  
'test') { return false; } const name = getName(); if (name ===  
'test') { this.setName(''); return false; } return name; }
```

[↑](#) back to top

Hoisting

- **14.1** `var` declarations get hoisted to the top of their scope, their assignment does not. `const` and `let` declarations are blessed with a new concept called **Temporal**

Dead Zones (TDZ). It's important to know why `typeof` is no longer safe.

```
// we know this wouldn't work (assuming there // is no notDefined
global variable) function example() { console.log(notDefined); //
=> throws a ReferenceError } // creating a variable declaration
after you // reference the variable will work due to // variable
hoisting. Note: the assignment // value of `true` is not hoisted.
function example() { console.log(declaredButNotAssigned); // =>
undefined var declaredButNotAssigned = true; } // the interpreter
is hoisting the variable // declaration to the top of the scope, //
which means our example could be rewritten as: function example() {
let declaredButNotAssigned; console.log(declaredButNotAssigned); //
=> undefined declaredButNotAssigned = true; } // using const and
let function example() { console.log(declaredButNotAssigned); // =>
throws a ReferenceError console.log(typeof declaredButNotAssigned);
// => throws a ReferenceError const declaredButNotAssigned = true;
}
```

- 14.2 Anonymous function expressions hoist their variable name, but not the function assignment.

```
function example() { console.log(anonymous); // => undefined
anonymous(); // => TypeError anonymous is not a function var
anonymous = function () { console.log('anonymous function
expression'); }; }
```

- 14.3 Named function expressions hoist the variable name, not the function name or the function body.

```
function example() { console.log(named); // => undefined named();
// => TypeError named is not a function superPower(); // =>
ReferenceError superPower is not defined var named = function
superPower() { console.log('Flying'); }; } // the same is true when
the function name // is the same as the variable name. function
example() { console.log(named); // => undefined named(); // =>
TypeError named is not a function var named = function named() {
console.log('named'); } }
```

- 14.4 Function declarations hoist their name and the function body.

```
function example() { superPower(); // => Flying function
superPower() { console.log('Flying'); } }
```

- For more information refer to [JavaScript Scoping & Hoisting](#) by Ben Cherry.

[↑](#) back to top

Comparison Operators & Equality

- 15.1 Use `===` and `!==` over `==` and `!=`. eslint: [eqeqeq](#)
- 15.2 Conditional statements such as the `if` statement evaluate their expression using coercion with the `ToBoolean` abstract method and always follow these simple rules:

- Objects evaluate to true
- Undefined evaluates to false
- Null evaluates to false
- Booleans evaluate to the value of the boolean
- Numbers evaluate to false if `+0`, `-0`, or `NaN`, otherwise true
- Strings evaluate to false if an empty string `''`, otherwise true

```
if ([0] && []) { // true // an array (even an empty one) is an
object, objects will evaluate to true }
```

- 15.3 Use shortcuts.

```
// bad if (name !== '') { // ...stuff... } // good if (name) { //
...stuff... } // bad if (collection.length > 0) { // ...stuff... }
// good if (collection.length) { // ...stuff... }
```

- 15.4 For more information see [Truth Equality and JavaScript](#) by Angus Croll.
- 15.5 Use braces to create blocks in `case` and `default` clauses that contain lexical declarations (e.g. `let`, `const`, `function`, and `class`).

Why? Lexical declarations are visible in the entire `switch` block but only get initialized when assigned, which only happens when its `case` is reached. This causes problems when multiple `case` clauses attempt to define the same thing.

eslint rules: [no-case-declarations](#) .

```
```javascript
// bad
switch (foo) {
 case 1:
 let x = 1;
 break;
 case 2:
 const y = 2;
 break;
 case 3:
 function f() {}
 break;
 default:
 class C {}
}

// good
```

```

switch (foo) {
 case 1: {
 let x = 1;
 break;
 }
 case 2: {
 const y = 2;
 break;
 }
 case 3: {
 function f() {}
 break;
 }
 case 4:
 bar();
 break;
 default: {
 class C {}
 }
}
...

```

- 15.5 Ternaries should not be nested and generally be single line expressions.

eslint rules: [no-nested-ternary](#) .

```

// bad const foo = maybe1 > maybe2 ? "bar" : value1 > value2 ?
"baz" : null; // better const maybeNull = value1 > value2 ? 'baz' :
null; const foo = maybe1 > maybe2 ? 'bar' : maybeNull; // best
const maybeNull = value1 > value2 ? 'baz' : null; const foo =
maybe1 > maybe2 ? 'bar' : maybeNull;

```

- 15.6 Avoid unneeded ternary statements.

eslint rules: [no-unneeded-ternary](#) .

```

// bad const foo = a ? a : b; const bar = c ? true : false; const
baz = c ? false : true; // good const foo = a || b; const bar =
!!c; const baz = !c;

```

[↑](#) [back to top](#)

## Blocks

- 16.1 Use braces with all multi-line blocks.

```

// bad if (test) return false; // good if (test) return false; //
good if (test) { return false; } // bad function foo() { return
false; } // good function bar() { return false; }

```



- 16.2 If you're using multi-line blocks with `if` and `else`, put `else` on the same line as your `if` block's closing brace. eslint: `brace-style` jscs: `disallowNewlineBeforeBlockStatements`

```
// bad if (test) { thing1(); thing2(); } else { thing3(); } // good
if (test) { thing1(); thing2(); } else { thing3(); }
```

[↑](#) back to top

## Comments

- 17.1 Use `/** ... */` for multi-line comments. Include a description, specify types and values for all parameters and return values.

```
// bad // make() returns a new element // based on the passed in
tag name // // @param {String} tag // @return {Element} element
function make(tag) { // ...stuff... return element; } // good /** *
make() returns a new element * based on the passed in tag name * *
@param {String} tag * @return {Element} element */ function
make(tag) { // ...stuff... return element; }
```

- 17.2 Use `//` for single line comments. Place single line comments on a newline above the subject of the comment. Put an empty line before the comment unless it's on the first line of a block.

```
// bad const active = true; // is current tab // good // is current
tab const active = true; // bad function getType() {
console.log('fetching type...'); // set the default type to 'no
type' const type = this._type || 'no type'; return type; } // good
function getType() { console.log('fetching type...'); // set the
default type to 'no type' const type = this._type || 'no type';
return type; } // also good function getType() { // set the default
type to 'no type' const type = this._type || 'no type'; return
type; }
```

- 17.3 Prefixing your comments with `FIXME` or `TODO` helps other developers quickly understand if you're pointing out a problem that needs to be revisited, or if you're suggesting a solution to the problem that needs to be implemented. These are different than regular comments because they are actionable. The actions are `FIXME -- need to figure this out` or `TODO -- need to implement`.
- 17.4 Use `// FIXME:` to annotate problems.

```
class Calculator extends Abacus { constructor() { super(); //
FIXME: shouldn't use a global here total = 0; } }
```

- 17.5 Use `// TODO:` to annotate solutions to problems.

```
class Calculator extends Abacus { constructor() { super(); // TODO:
total should be configurable by an options param this.total = 0; }
}
```

[↑](#) back to top

## Whitespace

- 18.1 Use soft tabs set to 2 spaces. eslint: `indent` jscs: `validateIndentation`

```
// bad function foo() {const name; } // bad function bar() {
 const name; } // good function baz() { ..const name; }
```

- 18.2 Place 1 space before the leading brace. eslint: `space-before-blocks` jscs: `requireSpaceBeforeBlockStatements`

```
// bad function test(){ console.log('test'); } // good function
test() { console.log('test'); } // bad dog.set('attr',{ age: '1
year', breed: 'Bernese Mountain Dog', }); // good dog.set('attr', {
age: '1 year', breed: 'Bernese Mountain Dog', });
```

- 18.3 Place 1 space before the opening parenthesis in control statements (`if`, `while` etc.). Place no space between the argument list and the function name in function calls and declarations. eslint: `space-after-keywords`, `space-before-keywords` jscs: `requireSpaceAfterKeywords`

```
// bad if(isJedi) { fight (); } // good if (isJedi) { fight(); } //
bad function fight () { console.log ('Swoosh!'); } // good
function fight() { console.log('Swoosh!'); }
```

- 18.4 Set off operators with spaces. eslint: `space-infix-ops` jscs: `requireSpaceBeforeBinaryOperators`, `requireSpaceAfterBinaryOperators`

```
// bad const x=y+5; // good const x = y + 5;
```

- 18.5 End files with a single newline character.

```
// bad (function (global) { // ...stuff... })(this);
```

```
// bad (function (global) { // ...stuff... })(this);↵ ↵
```

```
// good (function (global) { // ...stuff... })(this);↵
```

- **18.6** Use indentation when making long method chains. Use a leading dot, which emphasizes that the line is a method call, not a new statement.

```
// bad
$('#items').find('.selected').highlight().end().find('.open').updateCo
// bad $('#items'). find('.selected'). highlight(). end().
find('.open'). updateCount(); // good $('#items')
.find('.selected') .highlight() .end() .find('.open')
.updateCount(); // bad const leds =
stage.selectAll('.led').data(data).enter().append('svg:svg').class('le
true) .attr('width', (radius + margin) * 2).append('svg:g')
.attr('transform', 'translate(' + (radius + margin) + ',' + (radius
+ margin) + ')') .call(tron.led); // good const leds =
stage.selectAll('.led') .data(data) .enter().append('svg:svg')
.classed('led', true) .attr('width', (radius + margin) * 2)
.append('svg:g') .attr('transform', 'translate(' + (radius +
margin) + ',' + (radius + margin) + ')') .call(tron.led);
```

- **18.7** Leave a blank line after blocks and before the next statement. jscs:

[requirePaddingNewLinesAfterBlocks](#)

```
// bad if (foo) { return bar; } return baz; // good if (foo) {
return bar; } return baz; // bad const obj = { foo() { }, bar() {
}, }; return obj; // good const obj = { foo() { }, bar() { }, };
return obj; // bad const arr = [function foo() { }, function bar()
{ },]; return arr; // good const arr = [function foo() { },
function bar() { },]; return arr;
```

- **18.8** Do not pad your blocks with blank lines. eslint: [padded-blocks](#) jscs:

[disallowPaddingNewlinesInBlocks](#)

```
// bad function bar() { console.log(foo); } // also bad if (baz) {
console.log(qux); } else { console.log(foo); } // good function
bar() { console.log(foo); } // good if (baz) { console.log(qux); }
else { console.log(foo); }
```

- **18.9** Do not add spaces inside parentheses. eslint: [space-in-parens](#) jscs:

[disallowSpacesInsideParentheses](#)

```
// bad function bar(foo) { return foo; } // good function
bar(foo) { return foo; } // bad if (foo) { console.log(foo); } //
good if (foo) { console.log(foo); }
```

- **18.10** Do not add spaces inside brackets. eslint: [array-bracket-spacing](#) jscs:

[disallowSpacesInsideArrayBrackets](#)

```
// bad const foo = [1, 2, 3]; console.log(foo[0]); // good
const foo = [1, 2, 3]; console.log(foo[0]);
```

- **18.11** Add spaces inside curly braces. eslint: `object-curly-spacing` jscs: `disallowSpacesInsideObjectBrackets`

```
// bad const foo = {clark: 'kent'}; // good const foo = { clark: 'kent' };
```

- **18.12** Avoid having lines of code that are longer than 100 characters (including whitespace). eslint: `max-len` jscs: `maximumLineLength`

Why? This ensures readability and maintainability.

```
// bad const foo = 'Whatever national crop flips the window. The cartoon reverts within the screw. Whatever wizard constrains a helpful ally. The counterpart ascends!'; // bad $.ajax({ method: 'POST', url: 'https://airbnb.com/', data: { name: 'John' } }).done(() => console.log('Congratulations!')).fail(() => console.log('You have failed this city.')); // good const foo = 'Whatever national crop flips the window. The cartoon reverts within the screw. ' + 'Whatever wizard constrains a helpful ally. The counterpart ascends!'; // good $.ajax({ method: 'POST', url: 'https://airbnb.com/', data: { name: 'John' }, }) .done(() => console.log('Congratulations!')) .fail(() => console.log('You have failed this city.'));
```

[↑](#) back to top

## Commas

- **19.1** Leading commas: Nope. eslint: `comma-style` jscs: `requireCommaBeforeLineBreak`

```
// bad const story = [once , upon , aTime]; // good const story = [once, upon, aTime,]; // bad const hero = { firstName: 'Ada' , lastName: 'Lovelace' , birthYear: 1815 , superPower: 'computers' }; // good const hero = { firstName: 'Ada', lastName: 'Lovelace', birthYear: 1815, superPower: 'computers', };
```

- **19.2** Additional trailing comma: Yup. eslint: `comma-dangle` jscs: `requireTrailingComma`

Why? This leads to cleaner git diffs. Also, transpilers like Babel will remove the additional trailing comma in the transpiled code which means you don't have to worry about the [trailing comma problem](#) in legacy browsers.

```
// bad - git diff without trailing comma const hero = { firstName: 'Florence', - lastName: 'Nightingale' + lastName: 'Nightingale', + inventorOf: ['coxcomb graph', 'modern nursing'] }; // good - git diff with trailing comma const hero = { firstName: 'Florence',
```

```
lastName: 'Nightingale', + inventorOf: ['coxcomb chart', 'modern nursing'], }, }; // bad
const hero = { firstName: 'Dana', lastName: 'Scully' };
const heroes = ['Batman', 'Superman']; // good
const hero = { firstName: 'Dana', lastName: 'Scully', };
const heroes = ['Batman', 'Superman',];
```

[↑](#) back to top

## Semicolons

- 20.1 Yup. eslint: `semi` jscs: `requireSemicolons`

```
// bad
(function () { const name = 'Skywalker' return name })() //
good
(() => { const name = 'Skywalker'; return name; })(); // good
(guards against the function becoming an argument when two files
with IIFEs are concatenated) ;(() => { const name = 'Skywalker';
return name; })();
```

[Read more.](#)

[↑](#) back to top

## Type Casting & Coercion

- 21.1 Perform type coercion at the beginning of the statement.
- 21.2 Strings:

```
// => this.reviewScore = 9; // bad
const totalScore = this.reviewScore + ''; // good
const totalScore = String(this.reviewScore);
```

- 21.3 Numbers: Use `Number` for type casting and `parseInt` always with a radix for parsing strings. eslint: `radix`

```
const inputValue = '4'; // bad
const val = new Number(inputValue);
// bad
const val = +inputValue; // bad
const val = inputValue >> 0;
// bad
const val = parseInt(inputValue); // good
const val = Number(inputValue); // good
const val = parseInt(inputValue, 10);
```

- 21.4 If for whatever reason you are doing something wild and `parseInt` is your bottleneck and need to use Bitshift for [performance reasons](#), leave a comment explaining why and what you're doing.

```
// good
/**
 * parseInt was the reason my code was slow.
 * Bitshifting the String to coerce it to a
 * Number made it a lot faster.
 */
const val = inputValue >> 0;
```

- **21.5** Note: Be careful when using bitshift operations. Numbers are represented as **64-bit values**, but bitshift operations always return a 32-bit integer ([source](#)). Bitshift can lead to unexpected behavior for integer values larger than 32 bits. [Discussion](#). Largest signed 32-bit Int is 2,147,483,647:

```
2147483647 >> 0 //=> 2147483647 2147483648 >> 0 //=> -2147483648
2147483649 >> 0 //=> -2147483647
```

- **21.6** Booleans:

```
const age = 0; // bad const hasAge = new Boolean(age); // good
const hasAge = Boolean(age); // good const hasAge = !!age;
```

[↑](#) [back to top](#)

## Naming Conventions

- **22.1** Avoid single letter names. Be descriptive with your naming.

```
// bad function q() { // ...stuff... } // good function query() {
// ..stuff.. }
```

- **22.2** Use camelCase when naming objects, functions, and instances. eslint:

camelcase jscs: [requireCamelCaseOrUpperCaseIdentifiers](#)

```
// bad const OBJEcttsssss = {}; const this_is_my_object = {};
function c() {} // good const thisIsMyObject = {}; function
thisIsMyFunction() {}
```

- **22.3** Use PascalCase when naming constructors or classes. eslint: [new-cap](#) jscs: [requireCapitalizedConstructors](#)

```
// bad function user(options) { this.name = options.name; } const
bad = new user({ name: 'nope', }); // good class User {
constructor(options) { this.name = options.name; } } const good =
new User({ name: 'yup', });
```

- **22.4** Use a leading underscore \_ when naming private properties. eslint: [no-underscore-dangle](#) jscs: [disallowDanglingUnderscores](#)

```
// bad this.__firstName__ = 'Panda'; this.firstName_ = 'Panda'; //
good this._firstName = 'Panda';
```

- **22.5** Don't save references to `this`. Use arrow functions or `Function#bind`. jscs: [disallowNodeTypes](#)

```
// bad function foo() { const self = this; return function () {
console.log(self); }; } // bad function foo() { const that = this;
return function () { console.log(that); }; } // good function foo()
{ return () => { console.log(this); }; }
```

- 22.6 If your file exports a single class, your filename should be exactly the name of the class.

```
// file contents class CheckBox { // ... } export default CheckBox;
// in some other file // bad import CheckBox from './checkBox'; //
bad import CheckBox from './check_box'; // good import CheckBox
from './CheckBox';
```

- 22.7 Use camelCase when you export-default a function. Your filename should be identical to your function's name.

```
function makeStyleGuide() { } export default makeStyleGuide;
```

- 22.8 Use PascalCase when you export a singleton / function library / bare object.

```
const AirbnbStyleGuide = { es6: { } }; export default
AirbnbStyleGuide;
```

[↑](#) back to top

## Accessors

- 23.1 Accessor functions for properties are not required.
- 23.2 If you do make accessor functions use `getVal()` and `setVal('hello')`.

```
// bad dragon.age(); // good dragon.getAge(); // bad
dragon.age(25); // good dragon.setAge(25);
```

- 23.3 If the property is a `boolean`, use `isVal()` or `hasVal()`.

```
// bad if (!dragon.age()) { return false; } // good if
(!dragon.hasAge()) { return false; }
```

- 23.4 It's okay to create `get()` and `set()` functions, but be consistent.

```
class Jedi { constructor(options = {}) { const lightsaber =
options.lightsaber || 'blue'; this.set('lightsaber', lightsaber); }
set(key, val) { this[key] = val; } get(key) { return this[key]; } }
```

[↑ back to top](#)

## Events

- [24.1](#) When attaching data payloads to events (whether DOM events or something more proprietary like Backbone events), pass a hash instead of a raw value. This allows a subsequent contributor to add more data to the event payload without finding and updating every handler for the event. For example, instead of:

```
// bad $(this).trigger('listingUpdated', listing.id); ...
$(this).on('listingUpdated', (e, listingId) => { // do something
 with listingId });
```

prefer:

```
// good $(this).trigger('listingUpdated', { listingId: listing.id
}); ... $(this).on('listingUpdated', (e, data) => { // do something
 with data.listingId });
```

[↑ back to top](#)

## jQuery

- [25.1](#) Prefix jQuery object variables with a `$`. jscs:  
[requireDollarBeforejQueryAssignment](#)

```
// bad const sidebar = $(' .sidebar'); // good const $sidebar =
$(' .sidebar'); // good const $sidebarBtn = $(' .sidebar-btn');
```

- [25.2](#) Cache jQuery lookups.

```
// bad function setSidebar() { $(' .sidebar').hide(); // ...stuff...
$(' .sidebar').css({ 'background-color': 'pink' }); } // good
function setSidebar() { const $sidebar = $(' .sidebar');
$sidebar.hide(); // ...stuff... $sidebar.css({ 'background-color':
'pink' }); }
```

- [25.3](#) For DOM queries use Cascading `$(' .sidebar ul')` or parent > child  
`$(' .sidebar > ul')`. [jsPerf](#)
- [25.4](#) Use `find` with scoped jQuery object queries.

```
// bad $('ul', ' .sidebar').hide(); // bad
$(' .sidebar').find('ul').hide(); // good $(' .sidebar ul').hide();
// good $(' .sidebar > ul').hide(); // good
$sidebar.find('ul').hide();
```



[↑](#) back to top

## ECMAScript 5 Compatibility

---

- [26.1](#) Refer to [Kangax's ES5 compatibility table](#).

[↑](#) back to top

## ECMAScript 6 Styles

---

- [27.1](#) This is a collection of links to the various ES6 features.
  1. [Arrow Functions](#)
  2. [Classes](#)
  3. [Object Shorthand](#)
  4. [Object Concise](#)
  5. [Object Computed Properties](#)
  6. [Template Strings](#)
  7. [Destructuring](#)
  8. [Default Parameters](#)
  9. [Rest](#)
  10. [Array Spreads](#)
  11. [Let and Const](#)
  12. [Iterators and Generators](#)
  13. [Modules](#)

[↑](#) back to top

## Testing

---

- [28.1](#) Yup.

```
function foo() { return true; }
```

- [28.2](#) No, but seriously:
- Whichever testing framework you use, you should be writing tests!
- Strive to write many small pure functions, and minimize where mutations occur.
- Be cautious about stubs and mocks - they can make your tests more brittle.
- We primarily use `mocha` at Airbnb. `tape` is also used occasionally for small, separate modules.

- 100% test coverage is a good goal to strive for, even if it's not always practical to reach it.
- Whenever you fix a bug, *write a regression test*. A bug fixed without a regression test is almost certainly going to break again in the future.

[↑](#) [back to top](#)

## Performance

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- [On Layout & Web Performance](#)
- [String vs Array Concat](#)
- [Try/Catch Cost In a Loop](#)
- [Bang Function](#)
- [jQuery Find vs Context, Selector](#)
- [innerHTML vs textContent for script text](#)
- [Long String Concatenation](#)
- [Loading...](#)

[↑](#) [back to top](#)

## Resources

---

### Learning ES6

- [Draft ECMA 2015 \(ES6\) Spec](#)
- [ExploringJS](#)
- [ES6 Compatibility Table](#)
- [Comprehensive Overview of ES6 Features](#)

### Read This

- [Standard ECMA-262](#)

### Tools

- Code Style Linters
  - [ESLint - Airbnb Style .eslintrc](#)
  - [JSHint - Airbnb Style .jshintrc](#)
  - [JSCS - Airbnb Style Preset](#)

### Other Style Guides

- [Google JavaScript Style Guide](#)
- [jQuery Core Style Guidelines](#)
- [Principles of Writing Consistent, Idiomatic JavaScript](#)

## Other Styles

- [Naming this in nested functions](#) - Christian Johansen
- [Conditional Callbacks](#) - Ross Allen
- [Popular JavaScript Coding Conventions on Github](#) - JeongHoon Byun
- [Multiple var statements in JavaScript, not superfluous](#) - Ben Alman

## Further Reading

- [Understanding JavaScript Closures](#) - Angus Croll
- [Basic JavaScript for the impatient programmer](#) - Dr. Axel Rauschmayer
- [You Might Not Need jQuery](#) - Zack Bloom & Adam Schwartz
- [ES6 Features](#) - Luke Hoban
- [Frontend Guidelines](#) - Benjamin De Cock

## Books

- [JavaScript: The Good Parts](#) - Douglas Crockford
- [JavaScript Patterns](#) - Stoyan Stefanov
- [Pro JavaScript Design Patterns](#) - Ross Harmes and Dustin Diaz
- [High Performance Web Sites: Essential Knowledge for Front-End Engineers](#) - Steve Souders
- [Maintainable JavaScript](#) - Nicholas C. Zakas
- [JavaScript Web Applications](#) - Alex MacCaw
- [Pro JavaScript Techniques](#) - John Resig
- [Smashing Node.js: JavaScript Everywhere](#) - Guillermo Rauch
- [Secrets of the JavaScript Ninja](#) - John Resig and Bear Bibeault
- [Human JavaScript](#) - Henrik Joreteg
- [Superhero.js](#) - Kim Joar Bekkelund, Mads Mobæk, & Olav Bjorkoy
- [JSBooks](#) - Julien Bouquillon
- [Third Party JavaScript](#) - Ben Vinegar and Anton Kovalyov
- [Effective JavaScript: 68 Specific Ways to Harness the Power of JavaScript](#) - David Herman
- [Eloquent JavaScript](#) - Marijn Haverbeke
- [You Don't Know JS: ES6 & Beyond](#) - Kyle Simpson

## Blogs

- [DailyJS](#)
- [JavaScript Weekly](#)
- [JavaScript, JavaScript...](#)
- [Bocoup Weblog](#)
- [Adequately Good](#)
- [NCZOnline](#)

- [Perfection Kills](#)
- [Ben Alman](#)
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- [Dustin Diaz](#)
- [nettuts](#)

#### Podcasts

- [JavaScript Jabber](#)

[↑](#) [back to top](#)

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- Adult Swim: [adult-swim/javascript](#)
- Airbnb: [airbnb/javascript](#)
- Apartmint: [apartmint/javascript](#)
- Avalara: [avalara/javascript](#)
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- GoodData: [gooddata/gdc-js-style](#)
- Groovespark: [groovespark/javascript](#)
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- HubSpot: [HubSpot/javascript](#)

- Hyper: [hyperoslo/javascript-playbook](#)
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- Mighty Spring: [mightyspring/javascript](#)
- MinnPost: [MinnPost/javascript](#)
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- Peerby: [Peerby/javascript](#)
- Razorfish: [razorfish/javascript-style-guide](#)
- reddit: [reddit/styleguide/javascript](#)
- React: [/facebook/react/blob/master/CONTRIBUTING.md#style-guide](#)
- REI: [reidev/js-style-guide](#)
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- Shutterfly: [shutterfly/javascript](#)
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[↑](#) [back to top](#)

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[↑](#) [back to top](#)

## Amendments

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We encourage you to fork this guide and change the rules to fit your team's style guide. Below, you may list some amendments to the style guide. This allows you to periodically update your style guide without having to deal with merge conflicts.

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