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Tabris.js: A Gentle Introduction

Introduction

Tabris.js is a mobile framework that lets you develop apps for iOS, Android and Windows from a single code base written entirely in JavaScript or TypeScript and JSX.

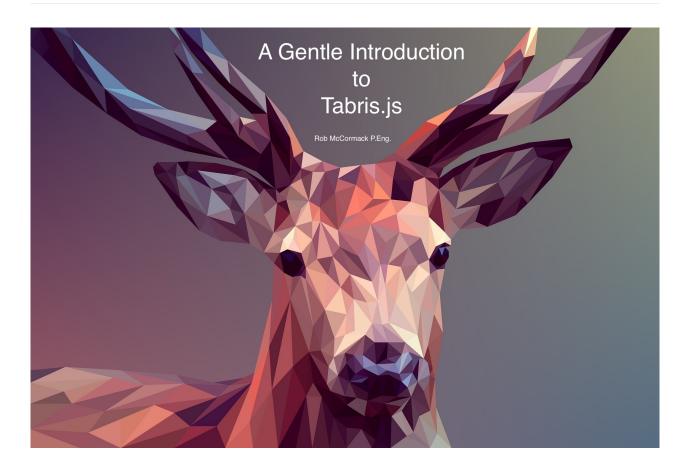
A Gentle Introduction to Tabris.js will let you explore and learn Tabris.js

First Steps

You can try out Tabris.js without installing anything on your computer.

- Install the Tabris.js Developer App on your device and browse through the included examples.
- Play with the JavaScript code of a simple Tabris.js app online in the Tabris.js
 Playground .
- Load your edited version in the Developer App by scanning the bar code on the playground page.

To start developing a real Tabris.js app, follow the Quick Start Guide. We also have an excellent ebook that explains how to create, deploy and test your first Tabris.js app.



#Your First Tabris JS App

and your second

Test Link: https://github.com/mrmccormack/tabrisgitbook/blob/master/testfromgithub.js

```
const {ui, ImageView, AlertDialog, Button} = require('tabris');
// example of images side by side - Matt.
const IMAGE_PATH = 'https://mrmccormack.github.io/imd-learning-t
abris/images/';
const DICE_OFFSET = 30;
// long pressing will enable/disable cheatMode (doubles to roll
all the time)
let cheatMode = false;
let diceImage1 = new ImageView({
  centerY:0,
  centerX: -DICE_OFFSET,
  image: IMAGE_PATH + '6.png'
}).appendTo(ui.contentView);
let diceImage2 = new ImageView({
  centerY:0,
  centerX: DICE_OFFSET,
  image: IMAGE_PATH + '1.png'
}).appendTo(ui.contentView);
// event outsite create new
diceImage1.on('tap', () => {
console.log ('diceImage1');
if (cheatMode) {
```

```
var rand = 1 + Math.floor(Math.random() * 6);
diceImage1.image = IMAGE_PATH + rand + '.png';
diceImage2.image = IMAGE_PATH + rand + '.png';
} else {
var rand = 1 + Math.floor(Math.random() * 6);
diceImage1.image = IMAGE_PATH + rand + '.png';
var rand = 1 + Math.floor(Math.random() * 6);
diceImage2.image = IMAGE_PATH + rand + '.png';
}
})
diceImage2.on('tap', () => {
console.log ('diceImage2');
if (cheatMode) {
var rand = 1 + Math.floor(Math.random() * 6);
diceImage1.image = IMAGE_PATH + rand + '.png';
diceImage2.image = IMAGE_PATH + rand + '.png';
} else {
var rand = 1 + Math.floor(Math.random() * 6);
diceImage1.image = IMAGE_PATH + rand + '.png';
var rand = 1 + Math.floor(Math.random() * 6);
diceImage2.image = IMAGE_PATH + rand + '.png';
}
 })
diceImage1.on('longpress', () => {
console.log ('Entering Cheat Mode - Good luck');
cheatMode = true; // toggle ???
  })
diceImage2.on('longpress', () => {
console.log ('Leaving Cheat Mode - Good luck');
cheatMode = false; // toggle ???
  })
```

```
let btnShowDice = new Button({
 centerX: 0,
 top: 'prev() 10',
 text: 'Show / Hide dice'
})
.on('select', () => {
diceImage1.visible = !diceImage1.visible;
diceImage2.visible = !diceImage2.visible;
}).appendTo(ui.contentView);
let btnOpacityDice = new Button({
  centerX: 0,
 top: 'prev() 10',
 text: 'Change Opacity'
})
.on('select', () => {
diceImage1.opacity = 0.5;
}).appendTo(ui.contentView);
```

This is a test asdf

Now is the time

Naming Conventions

Widgets

Generally, if there is on only one Widget in an app, just use the full name

txtMarkDown

Naming conventions for variables, constants, functions and classes

TL;DR: Use *lowerCamelCase* when naming constants, variables and functions and *UpperCamelCase* (capital first letter as well) when naming classes. This will help you to easily distinguish between plain variables / functions, and classes that require instantiation. Use descriptive names, but try to keep them short.

Otherwise: Javascript is the only language in the world which allows to invoke a constructor ("Class") directly without instantiating it first. Consequently, Classes and function-constructors are differentiated by starting with UpperCamelCase.

Code Example

```
// for class name we use UpperCamelCase
class SomeClassExample {}

// for const names we use the const keyword and lowerCamelCase
const config = {
    key: 'value'
};

// for variables and functions names we use lowerCamelCase
let someVariableExample = 'value';
function doSomething() {}
```

variables, constants etc.

• This is nice (string literals or integer literals):

```
const PI = 3.14;
const ADDRESS = '10.0.0.1';

but...

const myObject = {'key': 'value'};
const userSuppliedNumber = getInputNumber()
```

NOTE:

- Google JavaScript Style Guide says:
- Declare all local variables with either const or let. Use const by default, unless a variable needs to be reassigned. The var keyword must not be used.

```
// Create the activity indicator centered in the page
let activityIndicator = new ActivityIndicator({
  centerX: 0,
  centerY: 0
}).appendTo(ui.contentView);
```

```
let txiMarkDown = new TextInput({
  left: 8, right: 8, top: 'prev() 10',
  height: 100,
  message: MESSAGE,
  type: 'multiline',
  text: INITIAL_TEXT
}).appendTo(ui.contentView);
```

Widget	Prefix	Example
TextInput	txi	txiMarkDown
TextView	txv	txvCountry
Button	btn	btnReadFile

txtMarkDown

```
// Create the activity indicator centered in the page
let activityIndicator = new ActivityIndicator({
  centerX: 0,
  centerY: 0
}).appendTo(ui.contentView);
```

```
let txiMarkDown = new TextInput({
  left: 8, right: 8, top: 'prev() 10',
  height: 100,
  message: MESSAGE,
  type: 'multiline',
  text: INITIAL_TEXT
}).appendTo(ui.contentView);
```

Widget	Prefix	Example
TextInput	txi	txiMarkDown
TextView	txv	txvCountry
Button	btn	btnReadFile
asdf	asdf	asdf

Ordering of Widget properties

Use of layoutData

What is the advantage?

- 1. it validates against Javascript Standard on ONE line.
- 2. what order, width height always last.

```
layoutData: {left: offset, top: offset, width: 100, height: 100}
,
```

Widget properties take the form

```
property: parameter,
```

Note commas separate properties as shown:

```
left: 8,
```

Properties may be listed on multiple lines or on one line:

```
let txiMarkDown = new TextInput({
  left: 8, right: 8, top: 'prev() 10',
  height: 100,
  message: 'Enter URL here...',
  type: 'multiline',
  text: INITIAL_TEXT
}).appendTo(ui.contentView);
```

For readability, this book sets all positioning properties on one line, immediately afgter the let statement

```
left: 8, right: 8, top: 'prev() 10'
```

Dimensions are shown next

```
height: 100,
```

You might list the rest of properties in order of importance, although that might be difficult to decide upon.

Coding Style

• We will follow the JavaScript Standard Style for all Tabris.js code.

code style standard



This is a TL;DR of the standard JavaScript rules.

StandardJS — The Rules in Brief

- 2 spaces for indentation
- Single quotes for strings except to avoid escaping
- No unused variables this one catches tons of bugs!
- No semicolons It's fine. Really!
- Never start a line with (, [, or `
 - This is the **only** gotcha with omitting semicolons automatically checked for you!
 - More details
- Space after keywords if (condition) { ... }
- Space after function name function name (arg) { ... }
- Always use === instead of == but obj == null is allowed to check
 null || undefined .
- Always handle the node.js err function parameter
- Always prefix browser globals with window except document and navigator are okay
 - Prevents accidental use of poorly-named browser globals like open ,
 length , event , and name .
- And more goodness give standard a try today!

Open Source Supporters



Rules in Detail

• Use 2 spaces for indentation.

```
function hello (name) {
   console.log('hi', name)
}
```

• Use single quotes for strings except to avoid escaping.

```
console.log('hello there')
$("<div class='box'>")
```

No unused variables.

```
eslint: no-unused-vars

function myFunction () {
  var result = something() // x avoid
}
```

• Add a space after keywords.

```
eslint: keyword-spacing

if (condition) { ... } // < ok
  if(condition) { ... } // x avoid</pre>
```

• Add a space before a function declaration's parentheses.

```
eslint: space-before-function-paren
```

```
function name (arg) { ... } // < ok
function name(arg) { ... } // x avoid

run(function () { ... }) // < ok
run(function() { ... }) // x avoid</pre>
```

Always use === instead of == .

Exception: obj == null is allowed to check for null || undefined .

eslint: eqeqeq

• Infix operators must be spaced.

eslint: space-infix-ops

```
// < ok
var x = 2
var message = 'hello, ' + name + '!'</pre>
```

```
// x avoid
var x=2
var message = 'hello, '+name+'!'
```

Commas should have a space after them.

eslint: comma-spacing

```
// < ok
var list = [1, 2, 3, 4]
function greet (name, options) { ... }</pre>
```

```
// x avoid
var list = [1,2,3,4]
function greet (name, options) { ... }
```

• Keep else statements on the same line as their curly braces.

eslint: brace-style

```
// < ok
if (condition) {
    // ...
} else {
    // ...
}</pre>
```

```
// x avoid
if (condition) {
    // ...
}
else {
    // ...
}
```

• For multi-line if statements, use curly braces.

```
eslint: curly
```

```
// / ok
if (options.quiet !== true) console.log('done')
```

```
// < ok
if (options.quiet !== true) {
  console.log('done')
}</pre>
```

```
// x avoid
if (options.quiet !== true)
  console.log('done')
```

• Always handle the err function parameter.

eslint: handle-callback-err

```
// < ok
run(function (err) {
  if (err) throw err
  window.alert('done')
})</pre>
```

```
// x avoid
run(function (err) {
   window.alert('done')
})
```

• Always prefix browser globals with window. .

Exceptions are: document, console and navigator.

eslint: no-undef

```
window.alert('hi') // / ok
```

• Multiple blank lines not allowed.

```
eslint: no-multiple-empty-lines
```

```
// < ok
var value = 'hello world'
console.log(value)</pre>
```

"js // X avoid var value = 'hello world'

console.log(value)

```
* **For the ternary operator** in a multi-line setting, place `?
` and `:` on their own lines.

eslint: [`operator-linebreak`](http://eslint.org/docs/rules/operator-linebreak)

```js
// < ok
var location = env.development ? 'localhost' : 'www.api.com'

// < ok
var location = env.development
? 'localhost'
: 'www.api.com'

// x avoid
var location = env.development ?
'localhost'
: 'www.api.com'</pre>
```

• For var declarations, write each declaration in its own statement.

eslint: one-var

```
// / ok
var silent = true
var verbose = true

// x avoid
var silent = true, verbose = true

// x avoid
var silent = true,
verbose = true
```

Wrap conditional assignments with additional parentheses. This makes it clear that the expression is intentionally an assignment ( = ) rather than a typo for equality ( === ).

eslint: no-cond-assign

```
// < ok
while ((m = text.match(expr))) {
 // ...
}

// x avoid
while (m = text.match(expr)) {
 // ...
}</pre>
```

Add spaces inside single line blocks.

```
eslint: block-spacing
```

```
function foo () {return true} // x avoid
function foo () { return true } // < ok</pre>
```

• Use camelcase when naming variables and functions.

eslint: camelcase

```
function my_function () { } // x avoid
function myFunction () { } // v ok

var my_var = 'hello' // x avoid
var myVar = 'hello' // v ok
```

• Trailing commas not allowed.

```
eslint: comma-dangle
```

```
var obj = {
 message: 'hello', // x avoid
}
```

• Commas must be placed at the end of the current line.

```
eslint: comma-style
```

• Dot should be on the same line as property.

```
eslint: dot-location
```

```
console.
 log('hello') // x avoid

console
 .log('hello') // x ok
```

• Files must end with a newline.

```
eslint: eol-last
```

• No space between function identifiers and their invocations.

```
console.log ('hello') // x avoid
console.log('hello') // v ok
```

Add space between colon and value in key value pairs.

```
eslint: key-spacing
```

```
var obj = { 'key' : 'value' } // x avoid
var obj = { 'key' : 'value' } // x avoid
var obj = { 'key': 'value' } // x avoid
var obj = { 'key': 'value' } // x ok
```

• Constructor names must begin with a capital letter.

```
eslint: new-cap
```

```
function animal () {}
var dog = new animal() // x avoid

function Animal () {}
var dog = new Animal() // < ok</pre>
```

• Constructor with no arguments must be invoked with parentheses.

```
eslint: new-parens
```

```
function Animal () {}
var dog = new Animal // x avoid
var dog = new Animal() // < ok</pre>
```

• Objects must contain a getter when a setter is defined.

eslint: accessor-pairs

• Constructors of derived classes must call super .

eslint: constructor-super

```
class Dog {
 constructor () {
 super() // * avoid
 }
}

class Dog extends Mammal {
 constructor () {
 super() // * ok
 }
}
```

• Use array literals instead of array constructors.

eslint: no-array-constructor

```
var nums = new Array(1, 2, 3) // \times avoid
var nums = [1, 2, 3] // \times ok
```

• Avoid using arguments.callee and arguments.caller.

eslint: no-caller

```
function foo (n) {
 if (n <= 0) return

 arguments.callee(n - 1) // x avoid
}

function foo (n) {
 if (n <= 0) return

 foo(n - 1)
}</pre>
```

Avoid modifying variables of class declarations.

```
eslint: no-class-assign
```

```
class Dog {}
Dog = 'Fido' // x avoid
```

• Avoid modifying variables declared using const .

```
eslint: no-const-assign
```

```
const score = 100
score = 125 // x avoid
```

• Avoid using constant expressions in conditions (except loops).

```
eslint: no-constant-condition
```

```
if (false) { // x avoid
 // ...
}

if (x === 0) { // v ok
 // ...
}

while (true) { // v ok
 // ...
}
```

No control characters in regular expressions.

```
var pattern = /\x1f/ // x avoid
var pattern = /\x20/ // v ok
```

• No debugger statements.

```
eslint: no-debugger
```

• No delete operator on variables.

```
eslint: no-delete-var
```

```
var name
delete name // x avoid
```

• No duplicate arguments in function definitions.

```
eslint: no-dupe-args
```

```
function sum (a, b, a) { // x avoid
 // ...
}

function sum (a, b, c) { // < ok
 // ...
}</pre>
```

• No duplicate name in class members.

```
eslint: no-dupe-class-members
```

```
class Dog {
 bark () {}
 bark () {} // x avoid
}
```

• No duplicate keys in object literals.

```
eslint: no-dupe-keys
```

```
var user = {
 name: 'Jane Doe',
 name: 'John Doe' // x avoid
}
```

• No duplicate case labels in switch statements.

```
eslint: no-duplicate-case
```

```
switch (id) {
 case 1:
 // ...
 case 1: // x avoid
}
```

• Use a single import statement per module.

```
eslint: no-duplicate-imports
```

No empty character classes in regular expressions.

const myRegex =  $/^abc[a-z]/$  // / ok

```
eslint: no-empty-character-class

const myRegex = /^abc[]/ // x avoid
```

• No empty destructuring patterns.

eslint: no-empty-pattern

No using eval() .

eslint: no-eval

```
eval("var result = user." + propName) // x avoid
var result = user[propName] // v ok
```

• No reassigning exceptions in catch clauses.

```
eslint: no-ex-assign
```

• No extending native objects.

```
eslint: no-extend-native

Object.prototype.age = 21 // x avoid
```

• Avoid unnecessary function binding.

```
eslint: no-extra-bind
```

```
const name = function () {
 getName()
}.bind(user) // x avoid

const name = function () {
 this.getName()
}.bind(user) // x ok
```

• Avoid unnecessary boolean casts.

```
eslint: no-extra-boolean-cast
```

```
const result = true
if (!!result) { // x avoid
 // ...
}

const result = true
if (result) { // x ok
 // ...
}
```

• No unnecessary parentheses around function expressions.

```
eslint: no-extra-parens
```

```
const myFunc = (function () { }) // x avoid
const myFunc = function () { } // \(\sigma \) ok
```

• Use break to prevent fallthrough in switch cases.

```
eslint: no-fallthrough
```

```
switch (filter) {
 case 1:
 doSomething() // x avoid
 case 2:
 doSomethingElse()
}
switch (filter) {
 case 1:
 doSomething()
 // ✓ ok
 break
 case 2:
 doSomethingElse()
}
switch (filter) {
 case 1:
 doSomething()
 // fallthrough // ✓ ok
 case 2:
 doSomethingElse()
}
```

• No floating decimals.

```
eslint: no-floating-decimal

const discount = .5 // x avoid
const discount = 0.5 // < ok</pre>
```

• Avoid reassigning function declarations.

```
eslint: no-func-assign

function myFunc () { }
myFunc = myOtherFunc // x avoid
```

• No reassigning read-only global variables.

```
eslint: no-global-assign

window = {} // x avoid
```

• No implied eval().

```
eslint: no-implied-eval
```

• No function declarations in nested blocks.

```
eslint: no-inner-declarations
```

```
if (authenticated) {
 function setAuthUser () {} // * avoid
}
```

• No invalid regular expression strings in RegExp constructors.

```
eslint: no-invalid-regexp
```

• No irregular whitespace.

```
eslint: no-irregular-whitespace
```

```
function myFunc () /*<NBSP>*/{} // x avoid
```

• No using \_\_iterator\_\_ .

```
eslint: no-iterator
```

```
Foo.prototype.__iterator__ = function () {} // x avoid
```

• No labels that share a name with an in scope variable.

```
eslint: no-label-var
```

No label statements.

```
eslint: no-labels
```

```
label:
 while (true) {
 break label // x avoid
 }
```

No unnecessary nested blocks.

```
eslint: no-lone-blocks
```

• Avoid mixing spaces and tabs for indentation.

```
eslint: no-mixed-spaces-and-tabs
```

• Do not use multiple spaces except for indentation.

```
eslint: no-multi-spaces

const id = 1234 // x avoid
const id = 1234 // ✓ ok
```

No multiline strings.

No new without assigning object to a variable.

• No using the Function constructor.

```
eslint: no-new-func

var sum = new Function('a', 'b', 'return a + b') // x avo
id
```

• No using the Object constructor.

```
eslint: no-new-object

let config = new Object() // x avoid
```

• No using new require.

```
eslint: no-new-require
```

```
const myModule = new require('my-module') // x avoid
```

• No using the Symbol constructor.

```
eslint: no-new-symbol

const foo = new Symbol('foo') // x avoid
```

• No using primitive wrapper instances.

```
eslint: no-new-wrappers

const message = new String('hello') // x avoid
```

No calling global object properties as functions.

```
eslint: no-obj-calls

const math = Math() // x avoid
```

No octal literals.

```
eslint: no-octal

const num = 042 // x avoid
const num = '042' // < ok</pre>
```

• No octal escape sequences in string literals.

```
eslint: no-octal-escape

const copyright = 'Copyright \251' // x avoid
```

• Avoid string concatenation when using \_\_dirname and \_\_filename .

```
eslint: no-path-concat
```

• **Avoid using** \_\_proto\_\_ . Use getPrototypeOf instead.

```
const foo = obj.__proto__ // x avoid
const foo = Object.getPrototypeOf(obj) // < ok</pre>
```

• No redeclaring variables.

```
let name = 'John'
let name = 'Jane' // x avoid

let name = 'John'
name = 'Jane' // < ok</pre>
```

• Avoid multiple spaces in regular expression literals.

```
eslint: no-regex-spaces

const regexp = /test value/ // x avoid

const regexp = /test {3}value/ // v ok
const regexp = /test value/ // v ok
```

• Assignments in return statements must be surrounded by parentheses.

```
eslint: no-return-assign
```

• Avoid assigning a variable to itself

```
eslint: no-self-assign

name = name // x avoid
```

• Avoid comparing a variable to itself.

```
eslint: no-self-compare

if (score === score) {} // x avoid
```

Avoid using the comma operator.

```
eslint: no-sequences

if (doSomething(), !!test) {} // x avoid
```

• Restricted names should not be shadowed.

```
eslint: no-shadow-restricted-names

let undefined = 'value' // x avoid
```

• Sparse arrays are not allowed.

```
eslint: no-sparse-arrays
```

```
let fruits = ['apple',, 'orange'] // x avoid
```

• Tabs should not be used

```
eslint: no-tabs
```

• Regular strings must not contain template literal placeholders.

```
eslint: no-template-curly-in-string
```

```
const message = 'Hello ${name}' // x avoid
const message = `Hello ${name}` // v ok
```

• super() must be called before using this.

```
eslint: no-this-before-super
```

• Only throw an Error object.

```
eslint: no-throw-literal
```

```
throw 'error' // x avoid
throw new Error('error') // v ok
```

• Whitespace not allowed at end of line.

```
eslint: no-trailing-spaces
```

Initializing to undefined is not allowed.

```
eslint: no-undef-init
```

```
let name = undefined // x avoid

let name
name = 'value' // < ok</pre>
```

• No unmodified conditions of loops.

```
eslint: no-unmodified-loop-condition

for (let i = 0; i < items.length; j++) {...} // x avoid
 for (let i = 0; i < items.length; i++) {...} // v ok</pre>
```

No ternary operators when simpler alternatives exist.

• No unreachable code after return , throw , continue , and break statements.

eslint: no-unreachable

```
function doSomething () {
 return true
 console.log('never called') // x avoid
}
```

No flow control statements in finally blocks.

```
eslint: no-unsafe-finally
```

• The left operand of relational operators must not be negated.

```
eslint: no-unsafe-negation

if (!key in obj) {} // x avoid

if (!(key in obj)) {} // < ok</pre>
```

• Avoid unnecessary use of .call() and .apply() .

```
eslint: no-useless-call

sum.call(null, 1, 2, 3) // x avoid
```

• Avoid using unnecessary computed property keys on objects.

```
eslint: no-useless-computed-key

const user = { ['name']: 'John Doe' } // x avoid
const user = { name: 'John Doe' } // v ok
```

• No unnecessary constructor.

eslint: no-useless-constructor

```
class Car {
 constructor () { // x avoid
 }
}
```

• No unnecessary use of escape.

```
eslint: no-useless-escape

let message = 'Hell\o' // x avoid
```

 Renaming import, export, and destructured assignments to the same name is not allowed.

```
eslint: no-useless-rename
```

• No whitespace before properties.

```
eslint: no-whitespace-before-property
```

```
user .name // x avoid
user.name // < ok
```

• No using with statements.

```
eslint: no-with
```

```
with (val) \{...\} // x avoid
```

• Maintain consistency of newlines between object properties.

```
eslint: object-property-newline
```

No padding within blocks.

```
eslint: padded-blocks
```

No whitespace between spread operators and their expressions.

```
eslint: rest-spread-spacing

fn(... args) // x avoid
fn(...args) // v ok
```

• Semicolons must have a space after and no space before.

• Must have a space before blocks.

```
eslint: space-before-blocks

if (admin){...} // x avoid
 if (admin) {...} // < ok</pre>
```

• No spaces inside parentheses.

```
getName(name) // x avoid
getName(name) // v ok
```

• Unary operators must have a space after.

```
eslint: space-unary-ops

typeof!admin // x avoid
typeof!admin // < ok</pre>
```

• Use spaces inside comments.

```
eslint: spaced-comment
```

```
//comment // x avoid
// comment // v ok

/*comment*/ // x avoid
/* comment */ // v ok
```

• No spacing in template strings.

```
eslint: template-curly-spacing
```

```
const message = `Hello, ${ name }` // x avoid
const message = `Hello, ${name}` // v ok
```

• Use isNaN() when checking for NaN.

```
eslint: use-isnan
```

```
if (price === NaN) { } // x avoid
if (isNaN(price)) { } // < ok</pre>
```

• typeof must be compared to a valid string.

```
eslint: valid-typeof
```

```
typeof name === 'undefimed' // x avoid
typeof name === 'undefined' // < ok</pre>
```

• Immediately Invoked Function Expressions (IIFEs) must be wrapped.

```
eslint: wrap-iife
```

```
const getName = function () { }() // x avoid

const getName = (function () { }()) // v ok
const getName = (function () { })() // v ok
```

• The \* in yield\* expressions must have a space before and after.

```
eslint: yield-star-spacing
```

```
yield* increment() // x avoid
yield * increment() // < ok</pre>
```

Avoid Yoda conditions.

```
eslint: yoda
```

```
if (42 === age) { } // * avoid
if (age === 42) { } // * ok
```

#### **Semicolons**

• No semicolons. (see: 1, 2, 3)

eslint: semi

```
window.alert('hi') // / ok
window.alert('hi'); // x avoid
```

• Never start a line with ( , [ , or ` . This is the only gotcha with omitting semicolons, and standard protects you from this potential issue.

eslint: no-unexpected-multiline

```
// / ok
;[1, 2, 3].forEach(bar)

// x avoid
[1, 2, 3].forEach(bar)
```

```
// / ok
; `hello`.indexOf('o')

// x avoid
`hello`.indexOf('o')
```

Note: If you're often writing code like this, you may be trying to be too clever.

Clever short-hands are discouraged, in favor of clear and readable expressions, whenever possible.

Instead of this:

```
;[1, 2, 3].forEach(bar)
```

This is strongly preferred:

```
var nums = [1, 2, 3]
nums.forEach(bar)
```

### Helpful reading

- An Open Letter to JavaScript Leaders Regarding Semicolons
- JavaScript Semicolon Insertion Everything you need to know

#### And a helpful video:

• Are Semicolons Necessary in JavaScript? - YouTube

All popular code minifiers in use today use AST-based minification, so they can handle semicolon-less JavaScript with no issues (since semicolons are not required in JavaScript).

Excerpt from "An Open Letter to JavaScript Leaders Regarding Semicolons":

[Relying on automatic semicolon insertion] is quite safe, and perfectly valid JS that every browser understands. Closure compiler, yuicompressor, packer, and jsmin all can properly minify it. There is no performance impact anywhere.

I am sorry that, instead of educating you, the leaders in this language community have given you lies and fear. That was shameful. I recommend learning how statements in JS are actually terminated (and in which cases they are not terminated), so that you can write code that you find beautiful.

In general, \n ends a statement unless:

- 1. The statement has an unclosed paren, array literal, or object literal or ends in some other way that is not a valid way to end a statement. (For instance, ending with ... or , .)
- 2. The line is -- or ++ (in which case it will decrement/increment the next token.)
- 3. It is a for(), while(), do, if(), or else, and there is no {
- 4. The next line starts with [ , ( , + , \* , / , , , , . , or some other binary operator that can only be found between two tokens in a single expression.

The first is pretty obvious. Even JSLint is ok with \n chars in JSON and parenthesized constructs, and with var statements that span multiple lines ending in \, .

The second is super weird. I've never seen a case (outside of these sorts of conversations) where you'd want to do write <code>i\n++\nj</code>, but, point of fact, that's parsed as <code>i; ++j</code>, not <code>i++; j</code>.

The third is well understood, if generally despised. if  $(x) \cdot (y)$  is equivalent to if  $(x) \cdot (y)$ . The construct doesn't end until it reaches either a block, or a statement.

; is a valid JavaScript statement, so if(x); is equivalent to if(x){} or, "If x, do nothing." This is more commonly applied to loops where the loop check also is the update function. Unusual, but not unheard of.

The fourth is generally the fud-inducing "oh noes, you need semicolons!" case. But, as it turns out, it's quite easy to *prefix* those lines with semicolons if you don't mean them to be continuations of the previous line. For example, instead of this:

```
foo();
[1,2,3].forEach(bar);
```

you could do this:

```
foo(); [1,2,3].forEach(bar)
```

The advantage is that the prefixes are easier to notice, once you are accustomed to never seeing lines starting with ( or [ without semis.

## **Big Arrow Functions**

It's Time to Embrace Arrow Functions

• https://medium.com/javascript-scene/familiarity-bias-is-holding-you-back-its-time-to-embrace-arrow-functions-3d37e1a9bb75

## **Event Handling Style**

Events may be shown in two ways.

## **Events as part of declaration**

```
// button with event outside
let resetbutton = new Button({
 centerX: 0,
 top: 'prev() 10',
 text: ' Reset'
 })
.appendTo(ui.contentView);
// event outsite create new
resetbutton.on('select', () => {
console.log ('you pressed reset');
console.log (urlInput.text);
 let HTML_TEMPLATE = '<!DOCTYPE html>\
<html>\
<title>Hello Strapdown</title>\
<xmp theme="united" style="display:none;">\
' + urlInput.text + '</xmp>\
<script src="http://strapdownjs.com/v/0.2/strapdown.js"></script</pre>
>\
</html>'
 webView.html = HTML_TEMPLATE;
 })
```

#### **Events outside of declaration**

This book always separates the event from the declaration for readability.

# **Promises Explained**

• explain them, in Tabris.js

## Sample of lost of .js code

```
const {Button, TextView, TextInput, WebView, ui} = require('tabr
is');
const INITIAL_TEXT = '![](https://cdn2.iconfinder.com/data/icons
/nodejs-1/64/nodejs-64.png)\n# Heading <math>n-one n-two n---n
Instant and elegant Markdown documents\n```js\n \
alert("Hello")\; \n```';
const MESSAGE = 'Enter Markdown...';
const TITLE = 'Strapdown.js';
new TextView({
 left: 8, right: 8, top: 16,
 text: 'Enter some Markdown:',
}).appendTo(ui.contentView);
let txiMarkDown = new TextInput({
 left: 8, right: 8, top: 'prev() 10',
 height: 100,
 message: MESSAGE,
 type: 'multiline',
 text: INITIAL_TEXT
}).appendTo(ui.contentView);
let btnRenderMarkDown = new Button({
 centerX: 0, top: 'prev() 10',
 text: 'Render Markdown'
 })
.appendTo(ui.contentView);
btnRenderMarkDown.on('select', () => {
 renderMarkdown();
})
// This will render each time text is changed
```

```
// txiMarkDown.on('textChanged', () => {
 // renderMarkdown();
 // })
 let webView = new WebView({
 left: 0, top: 'prev() 8', right: 0, bottom: 0
 }).appendTo(ui.contentView);
 function renderMarkdown() {
 let HTML_TEMPLATE = '<!DOCTYPE html>\
 <html>\
 <title>' + TITLE + '</title>\
 <xmp theme="Cerulean" style="display:none;">\
 ' + txiMarkDown.text + '</xmp>\
 <script src="http://strapdownjs.com/v/0.2/strapdown.js"></scri</pre>
 pt>\
 </html>';
 webView.html = HTML_TEMPLATE;
 }
 // render when loaded
 renderMarkdown();
```

## Reference for using GitBook

- you can edit raw Markdown, by :
- On the riht bottom corner you can see a question mark inside there is a menu. click the "edit markdows" entry.

## **Plugins**

It seems that plugins only work locally... that would explain the trouble.

- can you embed a gist or a File from repository possible, but Rob hasn't got it working yet
- Don't use Plugins, could not get the embed code (use just a link to updated version) and Dark Theme didn't work either.

#### How to do a cover.

- not sure of this one, you can include cover.jpg
- Ref: