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age = 2) => { //do something } And like regular functions, we can return only one value. Arrow functions are very similar, so you might ask why you introduced arrow functions. A big difference in regular functions is when they are used as object methods. This is something we will soon look at. Objects Any values that are not of the original type (string, number, boolean, symbol, null, or undefined) is an object. Here's how we define an object. Here's how we define an object which is one of the most beautiful things in JavaScript. You can also use the new object syntax: const car = new Object() Another syntax is to use Object.create(): const car = Object.create(): const car = Object.create(): const car = object.create(): const car = new Object. There we can initiate arguments that we receive as parameters to configure the initial state of the object: function Car(brand, model) { this.brand = brand this.model = model } We initiate a new object with: const myCar = new Car ('Ford', 'Fiesta') myCar.brand #Ford' myCar.model //'Ford' myCar.model //'Ford' myCar.model //'Ford' myCar.model //'Ford' myCar.brand #Ford' myCar.br are passed by value: Let's take this example: let's age = 36 let myAge = age myAge = 37 age //36 const car = { color: 'blue' } const another.color = 'yellow' car.color //'yellow' Even arrays or functions are under the hood, objects, so it is very important to understand how they work. Object properties Objects have properties that consist of a label associated with a value. The value of a property can be of any type, which means that it can be an array, a function, or even an object, because objects. This is the literal syntax of the object we saw in the previous chapter: const car = {} We can define the color property this way: const car = { color: 'blue' } Here we have a car object with a property called color, with a blue value. Labels can be any string, but on special characters - if I wanted to include a non-valid character as a variable name in a property name, I would have to use quotation marks around it: it: car = { color: 'blue', 'the color': 'blue', 'the color': 'blue' } Invalid variable name characters include spaces, hyphens, and other special characters. As you can see, when we have multiple property by using 2 different syntaxes. The first is the notation period; car.color //'blue' The second (which is the only one we can use for properties with invalid names), is the use of square brackets: car['the color'] //'blue' If you access a non-existent property, you will get an undefined value: car.brand //undefined As mentioned earlier, objects can have nested objects as properties: const car = { brand: { name: 'Ford' }, color: 'blue' } In this example, you can access the brand name using car.brand.name or car['brand']['name'] You can set the property value when defining an object. But you can also add new properties to the object: car.model = 'Fiesta' car.model //'Fiesta' Given the const car object = { color: 'blue', car.color = 'yellow' car['color'] = 'red' And you can also add new properties to the object: car.model = 'Fiesta' car.model //'Fiesta' Given the const car object = { color: 'blue', car.color = 'yellow' car.gricolor'] = 'red' And you can also add new properties to the object: car.model //'Fiesta' Given the const car object = { color: 'blue', car.color = 'yellow' car.gricolor'] = 'red' And you can also add new properties to the object: car.model //'Fiesta' car.model //'Fiesta' Given the const car object = { color: 'blue', car.gricolor'] = 'red' And you can also add new properties to the object: car.model //'Fiesta' car.model //'Fiesta' Given the const car.gricolor'] brand: Ford } you can remove the property from this object using delete car.brand Object Methods I spoke about the functions in the previous chapter. Functions can be assigned to function, and we can call it using the period syntax we used for the property, with parentheses at the end: const car = { brand: 'Ford', model: 'Fiesta', start: function() { console.log('Started') } } car.start() Inside a method defined by the function syntax() {} we have access to the instance of the object by referring to it. In the following example, we have access to brand and model property values using this.brand and this.model: const car = { brand: 'Ford', model: 'Fiesta', start: function() { console.log('Started \${this.brand} \$ this.brand and this.model: 'Fiesta', start: function between regular functions and arrow functions and arrow functions and arrow functions and arrow function between regular functions and arrow functions and arrow functions are the arrow function between regular function between regular function between regular functions are the arrow function between regular function between regular function between regular function between regular functions are the arrow function between regular function between regular function between regular functions are the arrow function between regular function between regular function between regular functions are the arrow function between regular function between regular functions are the arrow function between regular function between regular functions are the arrow function functi 'Ford', model: 'Fiesta', start: () => { console.log(Started \${this.brand} \${this.model}') //not going to work } } car.start() This is because the arrow functions are not related to the object. This is the reason why regular functions are often used as object methods. Methods can accept parameters such as regular functions: const car = { brand: 'Ford', model: 'Fiesta', goTo: function(destination) { console.log('Going to \${destination}') } access .goTo('Rome') Class We talked about objects that are one of the most interesting parts of JavaScript. In this chapter we will go one level by introducing classes. What are classes? They are a way of defining pattern for multiple objects. Take person object: const person = { name: 'Flavio' } We can create a class class A person (note capital P, convention when using class we initialize the flavio object this way: const flavio = new Person() flavio is called an instance of the person class. We can set the property value name: flavio.name = Flavio, and we can access it using flavio.name we do for object properties. Classes can store properties such as name and methods in a class instance: Class Person { hello() { return 'Hello, | am Flavio' } } and we can call methods in a class instance: Class Person { hello() { return 'Hello, | am Flavio' } } am Flavio' } } const flavio = new Person() flavio.hello() There is a special method called constructor() that we can use to initialize class properties when creating a new instance of an object. This works this way: Person class { constructor(name) { this.name = name } hello() { return 'Hello, I am ' + this.name + '.' } Note how we use this access to the instance of the object. Now we can create an instance of a new object from the class, pass in a string, and when we call hello we will get a personalized message: const flavio. Hello, I am flavio. When an object is initialized, the constructor method is called with any passed parameters. Typically, methods are defined in an instance of an object, not in a class. A method can be defined as static to allow it to execute in a class instead of: Class Person { static genericHello() { return 'Hello' } } Person.genericHello() { return 'Hello' } } Person.genericHello() //Hello This is very useful sometimes. Class A inheritance can extend another class, and objects initialized with that class inherit all methods of both classes. Suppose we have a Person class: Person class { hello() { return 'Hello, I am a Person { } } } We can define a new object with a class programmer occurs, has access to hello() method: const flavio = new Programmer() flavio.hello() //'Hello, I'm a person' Inside the child class, you can refer to the parent class by calling super(): class Programmer extends Person { hello() + I'm also a programmer.' } } const flavio.hello() // Hello, I'm a person' Inside the child class, you can refer to the parent class by calling super(): class Programmer.' } Asynchonic programming and callbacks In most cases, JavaScript runs synchronously. That is, the line of code to executed, then the next one is executed, then the next one is executed, and so on. Everything is as you expect and how it works in most programming languages. However, there are times when you can't just wait for a line of code to execute. You can't just wait 2 seconds for a large file to load and stop the program. You can't just wait for a network resource to download before doing something else. JavaScript solves this problem using callbacks is with timers. Timers are not part of JavaScript, but are provided by the browser and Node.js. Let me talk about one of the timers we have: setTimeout(). The setTimeout() function accepts 2 arguments: function and number. The number is milliseconds that must pass before the function is started. Example: setTimeout() => { // runs after 2 seconds console.log('inside the function') }, 2000) A function containing the console.log('inside the function and number). function') line will be executed after 2 seconds. If you add console.log('before'), and console.log('after') after the function before the function') }, 2000) console.log('after') You will see this happening in the console: before inside the function The callback function is performed asynchronously. This is a very common pattern when working with a file system, network, events, or home in a browser. All the things I mentioned are not the core of JavaScript, so they are not explained in this manual, but you will find many examples in my other manuals available in . Here's how we implement callbacks in our code. We define a function that accepts the callback parameter, which is a function. When the code is ready to call back, we call it, passing the result: const doSomething = callback => { //do things const result = /* .. */ callback(result) } Code using this function would use it as follows: doSomething(result => { console.log(result) }) Promises are an alternative way to deal with asynchronous code. As we saw in the previous chapter, with callbacks we will pass the function to another function call that will be called when the doSomething() code is complete, it calls the function received as a parameter: const doSomething = callback => { //do things const result = /* .. */ callback(result) } The main problem with this approach is that if we need to use the result of this function in the rest of our code, all our code must be nested inside the callback, and if we need to make 2-3 callbacks we introduce into what is usually defined a callback hell with multiple levels of functions indented into other functions indented into other functions: doSomethingElseAgain(yetAnotherResult => { console.log(result) }) }) }) }) Promises are one way to deal with this. Instead of doing: doSomething(result => { console.log(result) }) This is how we call a promise-based function; doSomething() .then(result => { }) First we call the function, and then we have the function, and then we have the function ends. Indenting does not matter, it matters, you often use this style for clarity. Errors are often detected using the catch(): doSomething() .then(result => { console.log(reror) }) .catch(error => { console.log(reror) }) .wow, to be able to use this syntax, the implementation of doSomething() must be a little special. Must use the Promises API. Instead of declaring it as a normal function: const doSomething() must be a little special. Must use the Promises API. Instead of declaring it as a normal function: const doSomething() must be a little special. as a promise object: const doSomething = new Promise() and pass the function in the Promise constructor: const doSomething = new Promise to be resolved, the second is the function that we are calling for the promise to be rejected. const doSomething = new promise ((resolve, reject) = > {}) The promise solution means that the promise is successfully completed (resulting in the then() method being called in whatever it uses). Rejecting a promise means ending it with an error (which causes the catch() method to be called in any use). Here's how: const doSomething = new promise ((resolve, reject) = > { //some code const success = /* ... */ if (success) { resolve('ok') } else { reject('this error occurred') } }) We can pass a parameter to the recognition and rejection function of any type. The Async and Await Async functions are an abstraction at a higher level of promise. The asynchronous function returns a promise as in this example: const getData = () => { return new Promise((resolve, reject) => { setTimeout(() => resolve('some data'), 2000} Any code that wants to use this function will use the await keyword just before the function: const data = await getData() and thus all data returned by the promise will be assigned to the data variable. In our case, the data is a string of some data. With one specific caveat: every time we use the await keyword, we must do so inside a function defined as async. Yes: const doSomething = async () = > { const data = await getData() console.log(data) } Asynchization duo/await allows us to have cleaner code and a simple mental model to work with asynchronous code. As you can see in the example, here's how you can get a JSON resource using the download API, and parse it with promises: const getFirstUserData = () = > { // get users | son'() // parse JSON .then(response = > tetch('/users/\${user.name}')){get user = > tetch('/users/\${user.name}')}{get user = > tetc JSON .then(userResponse => response.json()) } getFirstUserData() And here's the same podana przy użyciu await/async: const JSON = await response = await response.json() // pick first user const user = users[0] // get user userResponse = await await/async: const JSON = await response.json() // pick first user const user = users[0] // get user userResponse = await fetch('/users/\${user.name}') // parse JSON const userData = await userData = await userData } getFirstUserData() Variable scope When I introduceds variables, I talked about using const, let's, and var. A range is a set of variables that are visible to parts of a program. In JavaScript, we have a global scope, scope of blocking, and scope of functions. If a variable is defined outside a function or block, it is attached to a global object and has a global scope, which means it is available in every part of the program. There is a very important difference between var, let, and const declarations. A variable defined as var inside a function is visible only inside that function, as are the arguments of the function. A variable defined as const or let on the other hand is visible only inside the block in which it is defined. A block is a set of statement. It is important to understand that the block does not define a new var range, but it does not for let and const. This has very practical consequences. Suppose the var variable inside if conditional in the getData() { if (true) { var data = 'some data printed on the console. If you try to move console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. If you try to move console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. If you try to move console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data printed on the console. log(data) after if, it still works: getData() { if (true) { var data = 'some data pri 'some data' } console.log(data) } But if you switch var data to allow data: getData() { if (true) { let data = 'some data' } console.log(data) } Error appears: ReferenceError: data is not defined. This is because the var function is a function with a range, and here something special happens, called lifting. In short, the var declaration is moved to the top of the nearest function by JavaScript before the code is run. This is the function for JS internally, more or less: getData() { var data if (true) { data = 'some data' } console.log(data) } Therefore, console.log(data) at the top of the function, even before declaring it, and you get undefined as a value for this variable: getData() { console.log(data), if (true) { var data = 'some data' } }, but if you switch to the lease, you will get a ReferenceError error: the data is not defined because lifting does not allow declarations. const follows the same rules as let: is a block with scope. At first it can be difficult, but when you realize this difference, you will see why var is now considered a bad practice compared to let - they have less moving parts, and their range is limited to the block, which also makes them very good loop variables, cease to exist after the end of the loop; I will be a valid variable with a value of 10. If you switch to let, when you try console.log(i) it will cause a ReferenceError: error: and is not defined. Conclusion Thank you very much for reading this book. I hope it will inspire you to learn more about JavaScript. For more information about JavaScript, check out my blog flaviocopes.com. Note: You may receive a PDF version and an ePub of this JavaScript beginner's guide

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