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greeting for cousin birthday constabularyCousin = greeter ('cousin') const cousins = ('Jamie', Cousins.forEach(cousin) = > { greeter (cousin)})* Prints: My dear cousin Jamie. I hope you have a great birthday, dear cousin Cersei. I hope you have a great birthday */ // Special greeting for friends birthday const greeterFriend = greeter ('friend') const friends = ['Ned', 'John', 'Rob'] friends.forEach((friend) = > { greeter(friend) }) /* Printouts: My friend Mill. I hope you have a great birthday, dear friend John. My dear friend Rob. I hope you have a great birthday */Great, right? We were able to customize the functionality of our feature by going through one argument. More generally, curry features are great for giving polymorphic behavior functions and simplifying their composition.8 Don't be afraid of the name. Functors are simply abstractions that wrap value in context and allow mapping above that value. Mapping means applying a function to a value to get another value. Here's what a very simple Functor looks like: const Identity = value => ({ card: fn => Identity (fn(value)), valueOf: () => value }) Why would you get into trouble creating Functor instead of just applying a function? To facilitate the composition of functions. Functors are agnostics of the type inside them, so you can apply transformation functions sequentially. Let's see one example: const double = (x) => { return x * 2 } const plusTen = (x) => { return x + 10 } constant num = 10 const dualityPlus10 = Identity(1 .map(double) .map (plusTen) console.log(doubledPlus10.valueOf()) // Prints 30This technique is very powerful, because you can decompose your programs into smaller pieces for many and test each of them separately without a problem. In case you're wondering, the JavaScript array object is also Functor.9. Monad Monad is a functor that also provides flat surgery. This structure helps to compile lifting type functions. Now we will explain every part of this definition step by step and why we may want to use it. What are the types of Lifting function types are functions that carry value in some context. Let's look at examples:// Here we lift x in the data set structure and also repeat the value twice. const repeatTwice = x => [x, x] // we pick up x in the set data structure and also square it. conde setWithSquared = x => new Set (x **2) Type of lifting functions can be quite general, so it makes sense, we would like to compose them. What is a flat function? A flat function (also called a compound) is a function that extracts the value from some context. You can easily understand this operation by using the array.prototype.flat function of JavaScript.flat.// Pay attention to [2,3] in the following array. 2 and 3 are in the context of array const favoriteNumbers = [1, [2, 3], 4] // JavaScript array.prototype.flat method will go through each of its elements, and if the value is the array itself, its values will be extracted and paired with the outermost array. console.log(favorite Number(flat()) // You will print [1, 2, 3, 4]What is a flat function? This is a function that first applies a mapping function (map), then removes the context around it (flat). Yes, I know it is confusing that operations are not applied in the same order as the name of the method suggests. How are monks useful? Imagine that we want to create two types of lifting functions that are square and split into two inside context. Let's first try to use a map and a very simple function called Identity.const Identity = value => ({// flatMap: f => f(value), map: f=> Identity.of(f(value)), valueOf: ="gt; Value }) // The method is a common type of lifting function for creating a monad object. Identity.= value => identity (value) const squareDendensity = x => Identity.of(x**2) const divideByTwoDensity = x => identity.of(x / 2) const result = identity(3) .. map(squareDensity) .map(divideByTwoDensity) // ● This will fail because it will receive Identity.of (9) which cannot be divided into 2 .valueOf() We can not just use the card function and you must first extract the values inside the identity. Here is where the flat function of the map in place appears.const identity = value => ({flatMap:f=> f(value), valueOf: () => value }) ... const result = identity(3) .flatMap(squareIdentity) .flatMap(divideByTwoFitability) .valueOf() console.log(result); Exodus 4.5We can finally compile type lifting functions thanks to the monks. In conclusion, I hope this article will give you a basic understanding of some basic concepts in functional programming and encourages you to dig deeper into this paradigm so that you can write more usable, supportable and easy-to-test software. Previously posted on the to get a daily round of top tech stories! Stories!

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