

Javascript

Lab 4

Arrow Operators

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- Background
 - Function expression: Used to define a function inside an expression using function keyword.
 - e.g. `var a = function(name){return "hello " + name};`

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- Arrows are shorthand function expressions
- Support block statements as well as expressions
- Cannot use arrow as a constructor
- Arrow doesn't have this, arguments, super

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- Basic syntax

`(param1, param2, ..., paramN) => {statements} //multiline`

`(param1, param2, ..., paramN) => expression // single line`

`Single Parameter => {statements} // parentheses are
optional for single parameter`

`() => {statements}; // Arrow without parameters`

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- Advanced syntax

`param => ({statements})` // returns object literal expression

`(param1, param2, ...rest) => {statements}` // rest parameter

`(param1 = default1, param2 = default2) => statement` // default values

`Let f = ([param1, param2] = [var1, var2]) => expression` // Destructuring

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- Expressions example
var numbers = [1, 2, 3, 4, 5];
var incrementByIndex = numbers.map((num, index) => num + index);