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# INTRODUCTION

SPA: Single Page Application

MPA: Multi-Page Application

CSR: Client-Side Rendering

SSR: Server-Side Rendering

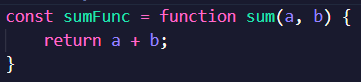
|  |  |
| --- | --- |
| **SPA** | **MPA** |
| * Modern * Trending * Page reloading is not required * Most necessary resources is loaded on the first run * Only need to load new resources when needed * Back-end and front-end independence * Not SEO friendly as MPA * Better user experience on mobile devices * JS dependency * Client-side rendering -> Reduce load for server | * Traditional * Need to reload page * Need to reload the entire page when accessing or routing * More SEO friendly than SPA |

# ES6

## Arrow Functions

-Reduce code length:

Normal:



Arrow:



-To return an object with arrow functions, we must put the object inside **()**:



-If there is **only 1 argument**, we can ignore **()**:



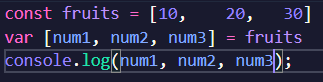
-Arrow function **does not have context** => **Cannot use *this***

## Enhanced Object Literals

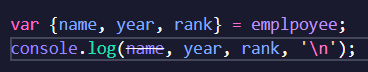
-In **reduce()** function, we must remember to return **accumulator**

## Destructuring

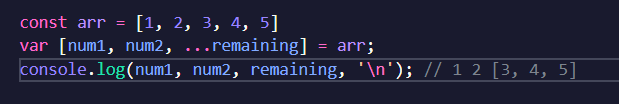
-Destructure an array:

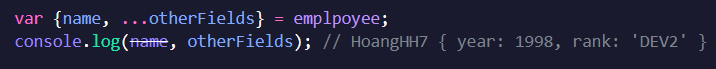


-Destructure an object:

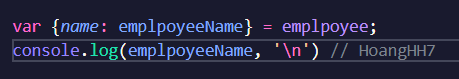


-Rest operator **…var**



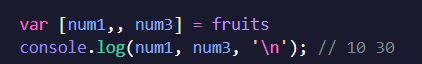


-Change variable’s name when working with objects:



-Omit some elements in the aray.

**Ex:** [10, 20, 30]



## Spread