http://es6-features.org/

Ecma Specification version 6 ----- ES6

Javascript language is based on this specification!!!

ES6 -----

Spread Operator --- looks like rest parameter === ...varname (three dots followed by a variable name)

Rest parameter is used for variable number of arguments to be passed to function. (internally the parameter is treated as an array)

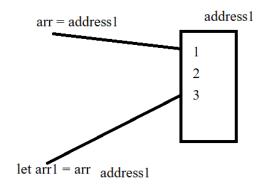
Spread operator is used for COPYING

spread operators are used with arrays and objects !!!

```
function f1( ... arr) // arr is a formal parameter and a rest parameter {
}
```

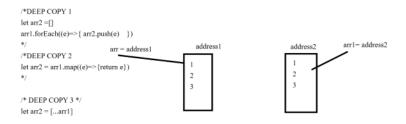
f1(12,13,14) //12,13,14 are actual parameter

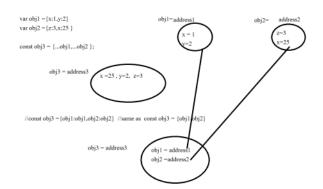
console.log(...arr) //Actual parameter is a spread operator



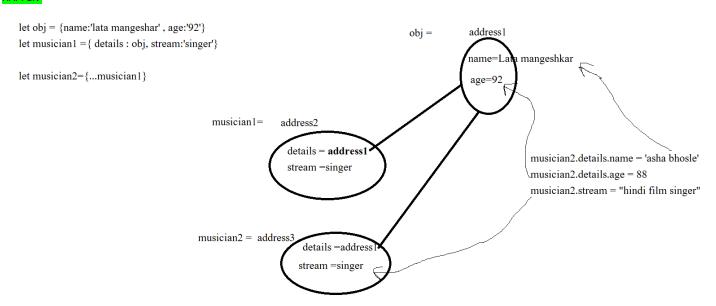
SHALLOW COPY !!!

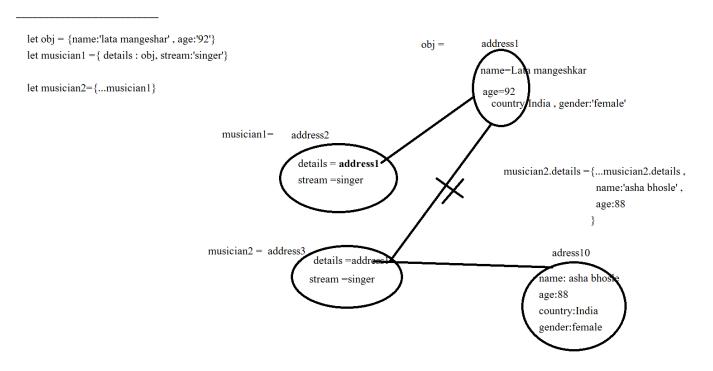
FOR DEEP COPY





USING SPREAD OPERATOR DEEP COPY OF CONTAINED OBJECT /HAS A property DOES NOT HAPPEN





async and await KEYWORDS in backend java-script ====NODE async defines function that returns a promise by default await = block the code flow (wait until) till the promise is resolved or rejected !!! 3 data structures for holding the function calls in javascript Stack = normal function calls are pushed and popped when returned Callback Queue = the callback functions that occur while executing code is added to this queue Job Queue = the promises that occur while executing the code are added to job queue Job queue has higher priority than callback queue Stack has highest priority new Promise((resolve,reject)= > { Depending on results the function either resolves or rejects }) If a named , anonymous , arrow function is preceded by async in its definition ----IT ALWAYS returns a promise Await keyword waits for a promise to resolve !!!! --- blocking code Await is always written inside the async function

Express Server = BACK END WEB SERVER for EXPOSING REST API written in NODE.js

Tomcat Server = BACK END WEBSERVER FOR EXPOSING REST API written in JAVA

Check the node module folder that you installed on day one i.e in the set path of your env variables !!!! Check for express if not go to that install folder (outside node_modules) and then type the following

npm install express --save

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