2022_02_09

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1 2022-02-09

1.0.1 Corso ITS

1.1 Magento & e-commerce software

1.2 ### JavaScript (Andrea Ribuoli)

1.3 console.log

```
[3]: !echo "console.log('Ciao')" | node
```

Ciao

```
[4]: !echo "console.log('Ciao')" \
      | node
```

Ciao

```
p = { x: 1, y: -2}
a = Object.getOwnPropertyNames(p)
console.log(JSON.stringify(a))
```

```
[23]: !node prop.js
```

```
{ x: 1, y: -2 }
undefined
L'elemento 0 vale constructor
L'elemento 1 vale __defineGetter__
L'elemento 2 vale __defineSetter__
L'elemento 3 vale hasOwnProperty
L'elemento 4 vale __lookupGetter__
L'elemento 5 vale __lookupSetter__
L'elemento 6 vale isPrototypeOf
L'elemento 7 vale propertyIsEnumerable
L'elemento 8 vale toString
L'elemento 9 vale valueOf
L'elemento 10 vale __proto__
L'elemento 11 vale toLocaleString
undefined
[object Object]
```

1.4 Object.getOwnPropertyNames

```
[6]: !echo "p={ascissa:1, ordinata:-2}; \
         a = Object.getOwnPropertyNames(p); \
         console.log(JSON.stringify(a))" \
     | node
```

```
["ascissa","ordinata"]
```

1.5 Object.getPrototypeOf

```
[ ]: !echo "p={x:1, y:-2}; \
         a = Object.getPrototypeOf(p); \
         console.log(a)" \
     | node
```

```
let p=new Object()
a = Object.getPrototypeOf(p)
b = Object.getOwnPropertyNames(a)
for (let c in b) {console.log(b[c])}
```

```
[ ]: !node protprop.js
```

1.5.1 "*good enough to work* is not, and should not be, *good enough*" (Kyle Simpson)

- scope/closures,
- prototypes/objects, and
- types/coercion

1.5.2 TRANSPILING

Developers should focus on writing the clean, new syntax forms, and let the tools take care of producing a forwards-compatible version of that code that is suitable to deploy and run on the oldest-supported JS engine environments.

1.5.3 INTERPOLATION (use of backtick)

```
let docente = 'Andrea Ribuoli'
console.log(`Lezione di ${docente}`)
```

```
[ ]: !echo "let docente = 'Andrea Ribuoli'; \
         console.log(\`Lezione di \${docente}\`)" | \
     node
```

1.5.4 typeof

```
console.log(typeof 59)
console.log(typeof "andrea")
console.log(typeof true)
```

```
console.log(typeof undefined)
console.log(typeof null)
console.log(typeof { "x": 1 })
console.log(typeof [1,2,3])
console.log(typeof function ciao(){})
```

[28]: `!node typeof.js`

```
number
string
boolean
undefined
object
object
object
function
Lezione di string
```

1.5.5 var .vs. let

```
var maggiorenne = true
if (maggiorenne) {
  var nome = "Andrea"
  let età = 60
}
console.log(nome)
console.log(età)
```

[26]: `!node varolet.js`

```
Andrea
/home/jupyter/ITS_Marche/JavaScript/2022_02_09/varolet.js:7
console.log(età)
            ^

ReferenceError: età is not defined
    at Object.<anonymous>
(/home/jupyter/ITS_Marche/JavaScript/2022_02_09/varolet.js:7:13)
    at Module._compile (internal/modules/cjs/loader.js:1085:14)
    at Object.Module._extensions..js
(internal/modules/cjs/loader.js:1114:10)
    at Module.load (internal/modules/cjs/loader.js:950:32)
    at Function.Module._load (internal/modules/cjs/loader.js:790:12)
    at Function.executeUserEntryPoint [as runMain]
(internal/modules/run_main.js:76:12)
    at internal/main/run_main_module.js:17:47
```