

dataset_sample_js contains:

- original_code_functions: 100 JavaScript functions.
- obfuscated_code_functions: obfuscator.io; ByteHide.
- deobfuscated_code_functions: (relative.im: obfuscator.io; ByteHide); (js-beautify: obfuscator.io; ByteHide); (obf-io.deobfuscate.io: obfuscator.io; ByteHide).

Save dataset_sample_js in Downloads/Scaricati.

Download obfuscator.io

(<https://github.com/javascript-obfuscator/javascript-obfuscator> terminal: npm install --save-dev javascript-obfuscator) on the virtual machine (VirtualBox) with ubuntu, save node_modules in a folder called obfuscator.io.

Download relative.im (<https://github.com/relative/synchrony> terminal: sudo su

- npm install --global deobfuscator) on the virtual machine (VirtualBox) with ubuntu.

Download js-beautify (<https://github.com/beautifier/js-beautify> terminal: npm install js-beautify@next) on the virtual machine (VirtualBox) with ubuntu, save node_modules in a folder called js-beautify@next.

Download obf-io.deobfuscate.io

(<https://www.npmjs.com/package/obfuscator-io> terminal: npm i obfuscator-io) on the virtual machine (VirtualBox) with ubuntu, save node_modules in a folder called obf-io.deobfuscate.io.

OBFUSCATED via ByteHide:

<https://www.bytehide.com/products/shield-obfuscator/javascript>

BASH SCRIPT TO OBFUSCATE:

```
- - obfuscator.io - -  
__general terminal  
for f in `ls ~/Scaricati/dataset_sample_js/original_code_functions/*.js`; do  
~/obfuscator.io/node_modules/javascript-obfuscator/bin/.//javascript-obfuscator $f;  
done; for h in `ls  
~/Scaricati/dataset_sample_js/original_code_functions/*obfuscated.js`; do mv $h  
~/Scaricati/dataset_sample_js/obfuscated_code_functions/obfuscator.io; done
```

BASH SCRIPT TO DEOBFUSCATE:

```
- - relative.im - -  
- - obfuscator.io - -  
__general terminal  
for f in `ls  
~/Scaricati/dataset_sample_js/obfuscated_code_functions/obfuscator.io/*-obf  
uscated.js`; do synchrony deobfuscate $f; done; for h in `ls  
~/Scaricati/dataset_sample_js/obfuscated_code_functions/obfuscator.io/*-obf  
uscated.cleaned.js`; do mv $h
```

```
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/relative.im/obfuscator.io; done
```

- - ByteHide - -

__general terminal

for f in `ls

```
~/Scaricati/dataset_sample_js/obfuscated_code_functions/ByteHide/*.js`; do  
synchrony deobfuscate $f; done; for h in `ls
```

```
~/Scaricati/dataset_sample_js/obfuscated_code_functions/ByteHide/*-shield.c  
leaned.js`; do mv $h
```

```
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/relative.im/Byte  
Hide; done
```

- - js-beautify - -

- - obfuscator.io - -

__general terminal with path

```
~/Scaricati/dataset_sample_js/obfuscated_code_functions/obfuscator.io
```

for f in `ls *-obfuscated.js`; do

```
~/js-beautify@next/node_modules/js-beautify/js/bin/.js-beautify.js -f $f >
```

```
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/js-beautify/obfus  
cator.io/beautify-$f; done;
```

- - ByteHide - -

__general terminal with path

```
~/Scaricati/dataset_sample_js/obfuscated_code_functions/ByteHide
```

for f in `ls *-shield.js`; do

```
~/js-beautify@next/node_modules/js-beautify/js/bin/.js-beautify.js -f $f >
```

```
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/js-beautify/Byte  
Hide/beautify-$f; done;
```

- - obf-io.deobfuscate.io - -

Path : ~/obf-io.deobfuscate.io/node_modules/obfuscator-io

In the folder dist :

create a file called originalrun.js and save here the original content of run.js.

in the run.js file on line 16 change 'input/source.js' to 'input/obfuscator.js'.

in the run.js file on line 17 change 'output/output.js' to 'output/deobf.js'

In the folder input :

copy the source.js file and paste it out of the folder and then create a new empty file named obfuscator.js.

In the folder output :

copy the output.js file and paste it out of the folder and then create a new empty file named deobf.js.

- - obfuscator.io - -

MOVE factorial.js in folder factorial1_2_3

```

__general terminal with path
~/obf-io.deobfuscate.io/node_modules/obfuscator-io
for f in `ls
~/Scaricati/dataset_sample_js/obfuscated_code_functions/obfuscator.io/*.js`;
do cat $f >
~/obf-io.deobfuscate.io/node_modules/obfuscator-io/input/obfuscator.js;
var=$(echo $f | xargs -n 1 basename);
~/obf-io.deobfuscate.io/node_modules/obfuscator-io/dist/./run.js; cp
~/obf-io.deobfuscate.io/node_modules/obfuscator-io/output/deobf.js
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/obf-io.deobfusca
te.io/obfuscator.io/$var; done;
EXTRACT from folder factorial1_2_3 : factorial.js

```

```

- - ByteHide - -
MOVE factorial.js in folder factorial
__general terminal with path
~/obf-io.deobfuscate.io/node_modules/obfuscator-io
for h in `ls
~/Scaricati/dataset_sample_js/obfuscated_code_functions/ByteHide/*.js`; do
cat $h >
~/obf-io.deobfuscate.io/node_modules/obfuscator-io/input/obfuscator.js;
var=$(echo $h | xargs -n 1 basename);
~/obf-io.deobfuscate.io/node_modules/obfuscator-io/dist/./run.js; cp
~/obf-io.deobfuscate.io/node_modules/obfuscator-io/output/deobf.js
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/obf-io.deobfusca
te.io/ByteHide/$var; done;
EXTRACT from folder factorial : factorial.js

```

BASH SCRIPT PER ESEGUIRE: __general terminal

```

- - original code - -
for f in `ls ~/Scaricati/dataset_sample_js/original_code_functions/*.js`; do node $f;
done;

- - obfuscated code obfuscator.io - -
for h in `ls
~/Scaricati/dataset_sample_js/obfuscated_code_functions/obfuscator.io/*-obfuscate
d.js`; do node $h; done;

- - obfuscated code ByteHide - -
for b in `ls ~/Scaricati/dataset_sample_js/obfuscated_code_functions/ByteHide/*.js`;
do node $b; done;

- - deobfuscated code relative.im - -
- - obfuscator.io - -

```

```

for k in `ls
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/relative.im/obfus
cator.io/*-obfuscated.cleaned.js`; do node $k; done;

- - ByteHide - -
for k in `ls
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/relative.im/Byte
Hide/*.js`; do node $k; done;

- - deobfuscated code js-beautify - -
- - obfuscator.io - -
for z in `ls
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/js-beautify/obfus
cator.io/*.js`; do node $z; done;

- - ByteHide - -
for z in `ls
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/js-beautify/Byte
Hide/*.js`; do node $z; done;

- - deobfuscated code obf-io.deobfuscate.io - -
- - obfuscator.io - -
for q in `ls
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/obf-io.deobfusca
te.io/obfuscator.io/*.js`; do node $q; done;

- - ByteHide - -
for q in `ls
~/Scaricati/dataset_sample_js/deobfuscated_code_functions/obf-io.deobfusca
te.io/ByteHide/*.js`; do node $q; done;

```