

JSON Editor Online

The left window shows a JSON object with a 'courriels' array:

```

1 v {
2   "nom": "Christoffel",
3   "prénom": "Eric",
4   "courriels": [
5     {
6       "courriel": "christof@unistra.fr",
7       "type": "pro"
8     },
9     {
10       "courriel": "christof@gmail.com",
11       "type": "perso"
12     }
13   ]
14 }

```

The right window shows the same JSON object transformed into an array:

```

New document 39
{
  nom : Christoffel
  prénom : Eric
  courriels : [ 2 items
    0 : {
      courriel : christof@unistra.fr
      type : pro
    }
    1 : {
      courriel : christof@gmail.com
      type : perso
    }
  ]
}

```

Both windows have their 'text' tab selected and show red circles around the 'text' tab and the copy/paste icons.

JSON Editor Online

A JSON object with a 'courriels' array:

```

1 {"nom":"Christoffel","prénom":"Eric","courriels": [
2   {"courriel":"christof@unistra.fr","type":"pro"},
3   {"courriel":"christof@gmail.com","type":"perso"}]}

```

The 'text' tab is selected and has a red circle around it.

Script content:

```

7 <script>
8 let contact={"nom":"Christoffel","prénom":"Eric","courriels": [
9   {"courriel":"christof@unistra.fr","type":"pro"}, 
10  {"courriel":"christof@gmail.com","type":"perso"}]};
11 
12 console.log(contact);
13 </script>
14 </head>

```

Handwritten note: "indice élément Array"

Object structure (highlighted with red circles):

```

Object i
  courriels: Array(2)
    0:
      courriel: "christof@unistra.fr"
      type: "pro"
    1:
      courriel: "christof@gmail.com"
      type: "perso"
    length: 2
    [[Prototype]]: Array(0)
  nom: "Christoffel"
  prénom: "Eric"
  [[Prototype]]: Object

```

~ Array

```

length: 2
[[Prototype]]: Array(0)
nom: "Christoffel"
prénom: "Eric"
[[Prototype]]: Object

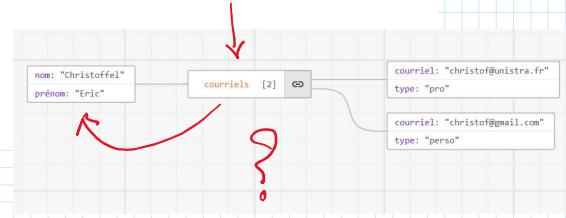
```

extension
JSON Crack

```

js > contact.json > ...
1  {
2    "nom": "Christoffel",
3    "prénom": "Eric",
4    "courriels": [
5      {
6        "courriel": "christof@unistra.fr",
7        "type": "pro"
8      }
9    ]

```



OOJS dot notation

objet • propriété

objet • méthode()

```

console.log(contact);
console.log(contact.nom);
console.log(contact.courriels[0].courriel);

```

← Array Notation
objet["propriété"] ou avec variable

↑
String

let laPropriete = "nom"

obj[laPropriete]

↑
variable

```

14 console.log(contact["nom"]);
15 let laPropriete="prénom";
16 console.log(contact[laPropriete]);

```

Christoffel
Eric

json.html:14
json.html:16

class static method argument

```

18 let contactString=JSON.stringify(contact);
19 console.log(typeof contactString,contactString);

```

```
18 let contactString=JSON.stringify(contact);  
19 console.log(typeof contactString,contactString);  
--
```

```
▼ {nom: 'Christoffel', prénom: 'Eric', courriels: Array(2)} ⓘ  
  ▶ courriels: (2) [{}{}, {}]  
    nom: "Christoffel"  
    prénom: "Eric"  
  ▶ [[Prototype]]: Object  
Christoffel  
christof@unistra.fr  
Christoffel  
Eric  
string {"nom":"Christoffel","prénom":"Eric","courriels":  
[{"courriel":"christof@unistra.fr","type":"pro"},  
 {"courriel":"christof@gmail.com","type":"perso"}]}
```

String = texte

```
--  
21 let contactJSON=JSON.parse(contactString);  
22 console.log(typeof contactJSON,contactJSON);
```

```
object ⓘ {nom: 'Christoffel', prénom: 'Eric', courriels: Array(2)} json.html:22  
  ▶ courriels: (2) [{}{}, {}]  
    nom: "Christoffel"  
    prénom: "Eric"  
  ▶ [[Prototype]]: Object
```

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