

Introduction to JavaScript

BY DR DEREK PEACOCK

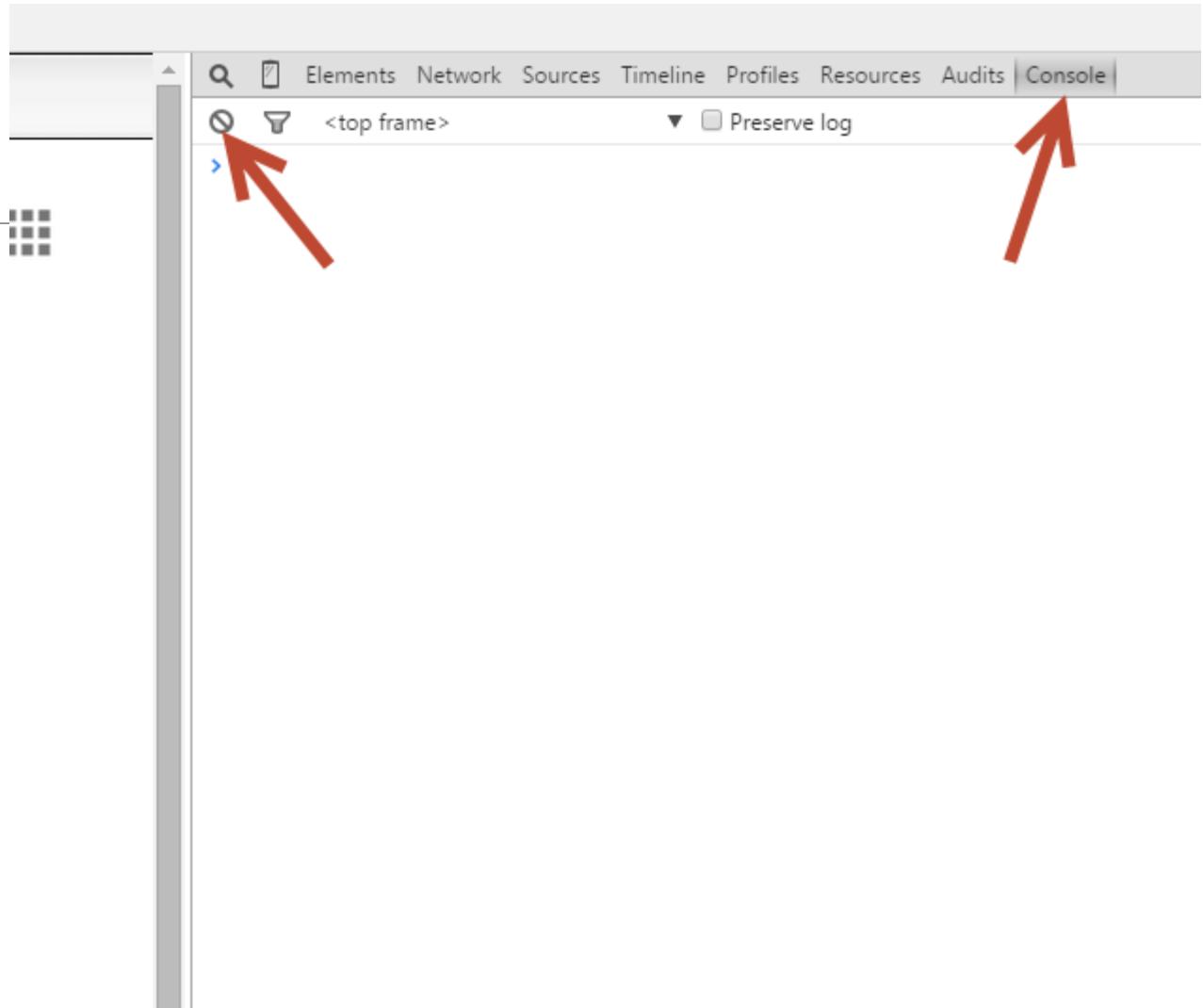
Browser Console

Open Chrome

Right click and select inspect element

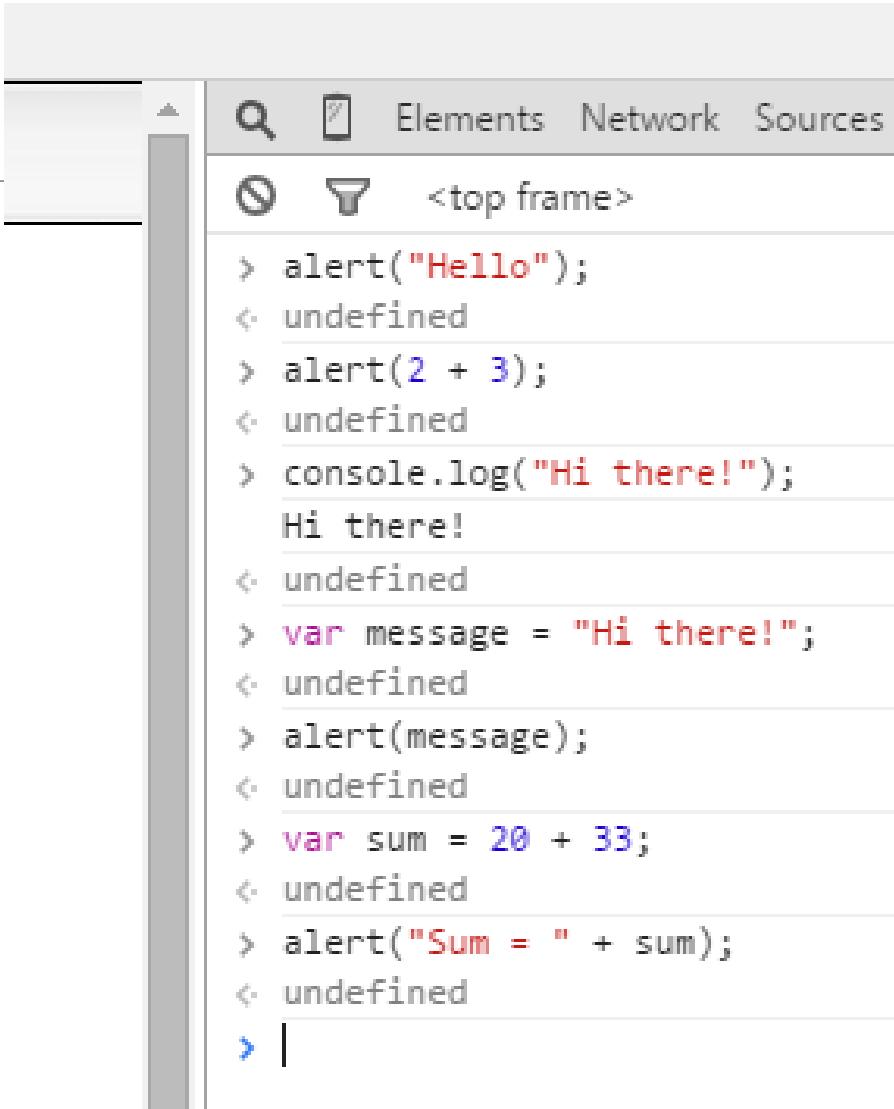
Select Console

Select clear console



Creating Output

```
alert("Hello world!");  
alert(2 + 3);  
console.log('Hi there!');  
var message = "Hi there!";  
alert(message);  
var sum = 20 + 33;  
alert("Sum = " + sum);
```



The screenshot shows a browser's developer tools console interface. The top navigation bar includes 'Elements', 'Network', and 'Sources' tabs. The main area displays a list of executed statements and their results. The statements are color-coded: red for alerts and console logs, blue for variable definitions, and black for other expressions. The results are displayed below each statement.

| Statement | Result |
|------------------------------|-----------|
| > alert("Hello"); | undefined |
| > alert(2 + 3); | undefined |
| > console.log("Hi there!"); | Hi there! |
| < undefined | |
| > var message = "Hi there!"; | undefined |
| < undefined | |
| > alert(message); | undefined |
| < undefined | |
| > var sum = 20 + 33; | undefined |
| < undefined | |
| > alert("Sum = " + sum); | undefined |
| < undefined | |

Selecting Alternatives

```
var age = 33;  
  
if(age < 35)  
{  
    alert("You are young!");  
}  
else  
{  
    alert("Getting older!");  
}  
  
age = 37;
```

```
< undefined  
> age = 44;  
< 44  
> if(age < 35)  
{  
    alert("You are young!");  
}  
else  
{  
    alert("getting older!");  
}  
< undefined
```

The page at <https://www.google.co.uk> says:
getting older!

OK

Arrays

```
var myList = ["Wine", "Beer", "Cider"];
```

```
myList[0];
```

```
myList[1] = "Lager";
```

```
myList;
```

```
myList[3] = "Beer";
```

```
myList;
```



The screenshot shows a browser's developer tools console interface. The top navigation bar includes 'Elements', 'Network', 'Sources', 'Timeline', and 'Profile' tabs. Below the toolbar, there are search and filter icons, followed by the text '<top frame>'. The main area displays a series of command-line entries and their results:

- > var myList = ["Wine", "Beer", "Cider"]; (The line is red, indicating an error)
- < undefined
- > myList
- < ["Wine", "Beer", "Cider"]
- > myList[0];
- < "Wine"
- > (A blue cursor is visible at the end of the line)

Using jQuery

```
<script src="https://code.jquery.com/jquery-2.1.3.js"  
      type="text/javascript">  
</script>  
  
<script>  
  $("header h1").html("My Page Header")  
</script>
```

Appending HTML

```
<script>  
    $("header h1").html("My Page Header");  
    $("ul").append("<li>Wine</li>");  
    $("ul").append("<li>Lager</li>");  
</script>
```

My Page Header

The Content of My Site

Lore ipsum dolor sit amet, consectetur adip:
Interdum et malesuada fames ac ante ipsum p
scelerisque tempor. Pellentesque condimentui
ac, ornare mollis tellus. Maecenas et turpis du
est eros facilisis tortor, fringilla posuere metu

- Beer
- Cider
- Wine
- Lager

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Removing HTML

```
$(“ul li:eq(0)”).remove(); // remove the first list item
```

```
$(“ul li:eq(1)”).remove(); // remove the second list item
```

Responding to Events

```
$("#addDrink").click(function()
{
    var name = $("#drink").val();
    $("ul").append("<li>" + name + "</li>");
});
```

- Beer
- Cider
- Wine
- Lager

Lager

Add One

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```
</p>
<ul>
    <li>Beer</li>
    <li>Cider</li>
</ul>
<input id="drink" type="text" />
<button id="addDrink" >Add Drink</button>
```

Named & Anonymous functions

```
function doSomething (parameter)
{
    // do something with the parameter;
}

function (parameter)
{
    // do something with the parameter;
}

doSomething("Data");

doSomething(20);
```

Showing & Hiding

jQuery Show & Hide

Please click on the buttons!

Panel 1

Panel 2

Panel 3

Panel 4

Panel 1

My Content

Panel 2

My Content

Panel 3

My Content

Panel 4

My Content

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Using Bootstrap

```
<head>
  <title>jQuery Magic</title>
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap...">
</head>
<body>
  <div class="container">
    <header>
      <h1>jQuery Show & Hide</h1>
    </header>
```

Using Bootstrap 2

```
<section class="jumbotron">  
    <h2>Please click on the buttons!</h2>  
  
    <div>  
  
        <button id="button1">Panel 1</button>  
  
        <button id="button2">Panel 2</button>  
  
        <button id="button3">Panel 3</button>  
  
        <button id="button4">Panel 4</button>  
  
    </div>  
  
</section>
```

Using Bootstrap 3

```
<section class="row">  
  <div class="col-xs-3">  
    <div id="panel1" class="panel panel-primary">  
      <div class="panel-heading">Panel 1</div>  
      <div class="panel-body">My Content</div>  
    </div>  
  </div>  
  
  <div class="col-xs-3">
```

jQuery Show & Hide

```
<script>  
$(function () {  
    $("#button1").on('click', function () {  
        $('#panel1').toggle();  
    });  
    $("#button2").on('mouseover', function () {  
        $('#panel2').fadeToggle(200);  
    });  
});  
</script>
```