

# NS-Lib Documentation

## Documentation and Code written by Nicholas Anand

NS-Lib is a JavaScript library that has many useful functions that make your JavaScript development experience better.

### Using NS-Lib

To import NS-Lib, you can put the following line of code in between the <head> tags.

```
<script src="http://nmoleosoftware.com/downloads/ns-lib-1.0.1.js"></script>
```

Alternatively, you can download the file and save it on your server. You can then import it using this code:

```
<script src="ns-lib-1.0.1.js"></script>
```

## getParams()

The `getParams()` function takes the current URL of the document and splits it up to extract arguments given in the URL. The function will return a dictionary, with the keys being variable names and the values being variable values.

### URL Structure

URLs must be formatted like the below example, using a question mark to denote a list of arguments, an equal sign to denote the value of an argument, and an ampersand to separate arguments.

```
http://example.com/page.html?variable1=value&variable2=7
```

### Examples

In the example below, the code will return a dictionary containing the following information:

```
> getParams();
> [Object, Object]
  0: Object
      key: "var1"
      value: "5"
  1: Object
      key: "var2"
      value: "6"
```

To get the value of the first parameter, you can use this code:

```
> getParams()[0].value
> "5"
```

## String.format()

The String.format function is based on Microsoft's .NET String.Format function. It takes one or more strings and replaces {x} with argument(x+1).

### Examples

The code will return the newly formatted string.

```
> version = 1.0
> String.format("NS-Lib is at version {0}.", version)
> "NS-Lib is at version 1.0"
```

You can replace multiple parts of the string at once.

```
> version = 1.0
> creator = "Nicholas Anand"
> String.format("NS-Lib, which was created by {0}, is at version {1}", creator, version)
> "NS-Lib, which was created by Nicholas Anand, is at version 1.0"
```

## ToCelsius() and toFahrenheit()

The toCelsius and toFahrenheit functions convert Celsius and Fahrenheit temperatures.

### Examples

```
> toCelsius(32)
```

```
> 0
```

```
> toFahrenheit(0)
```

```
> 32
```

## \$g(item)

The \$g function is a shorter alternative to document.getElementById().

### Examples

The code will return the newly formatted string.

```
> $g('item1')  
> <p id="item1">Hello world</p>
```