

**AJAX**

# **ASYNCHRONOUS JAVASCRIPT AND XML**

# WHAT IS IT?

- Allows to make **HTTP** requests in **Javascript**
- AJAX requests are **asynchronous** (non-blocking)
- Build by Microsoft in 1998 for Internet Explorer 5

# JAVASCRIPT SYNTAX

```
var http = new XMLHttpRequest();

req.open("GET", "http://lewagon.org", true);
req.setRequestHeader("Content-Type", "text/html");

req.onload = function(e) {
    console.log('Page chargée !');
};
req.onerror = function(e) {
    console.log('Un problème est survenu');
};

req.send(null);
```

# JQUERY SYNTAX

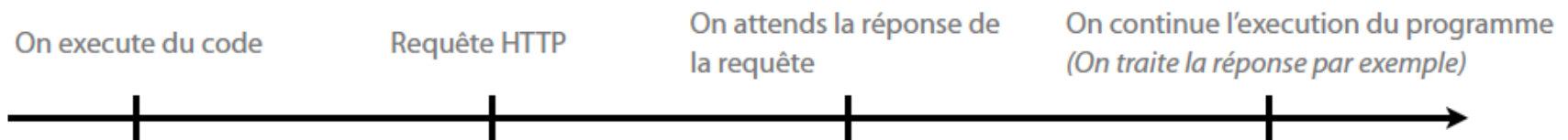
```
$.ajax({  
  type: "GET",  
  url: "http://lewagon.org",  
  beforeSend: function(request) {  
    request.setRequestHeader("Content-Type", 'text/html');  
  },  
  success: function(data) {  
    console.log('Page chargée !');  
  },  
  error: function(data) {  
    console.log('Un problème est survenu');  
  }  
});
```

# WHAT DOES ASYNCHRONOUS MEAN?

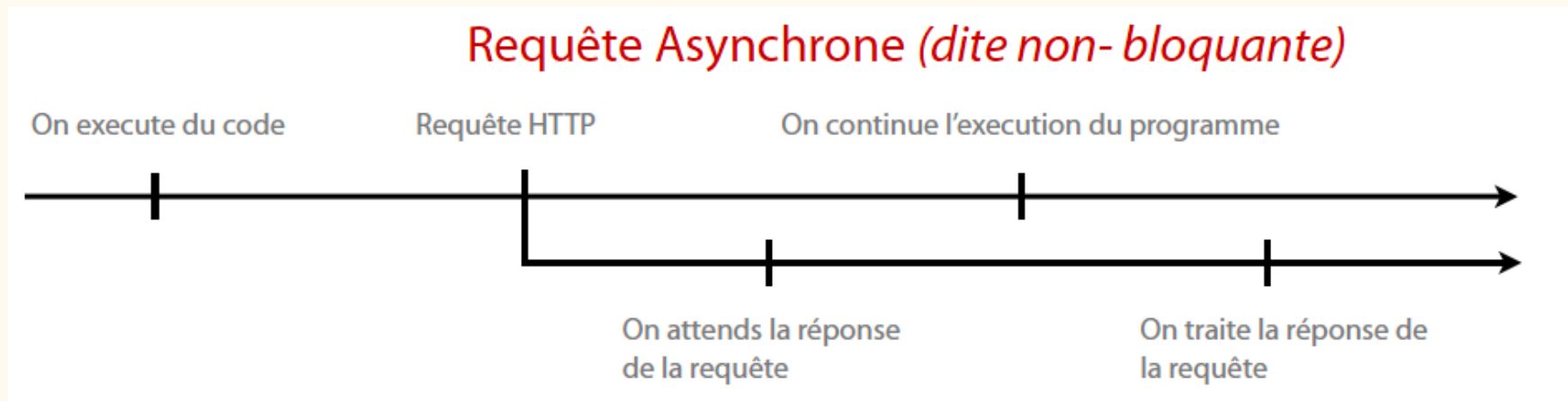
Send request and wait for response **without blocking your JS script**

# BLOCKING SCRIPT

## Requête Synchrone (*dite bloquante*)



# NON-BLOCKING SCRIPT





# IMAGINE A BLOCKING SCRIPT

```
console.log('Loading page lewagon.org...');    // Loading page
//
$.ajax({                                        //
  type: "GET",                                //
  url: "http://lewagon.org",                  //
  success: function(data) {                  //
    console.log('Page chargée !');            // Page loaded
  },                                          //
  error: function(data) {                    //
    console.log('Un problème est survenu');   //
  }                                          //
});                                          //
//
console.log('Doing some stuff');              // Doing some
```

# HAPPILY

Our request is asynchronous :)

```
console.log('Loading page lewagon.org...'); // Loading page
//
$.ajax({ //
  type: "GET", //
  url: "http://lewagon.org", //
  success: function(data) { //
    console.log('Page chargée !'); //
  }, //
  error: function(data) { //
    console.log('Un problème est survenu'); //
  } //
}); //
//
console.log('Doing some stuff'); // Doing some
```

# JQUERY SYNTAX

- \$.ajax()
- \$.get()
- \$.post()
- \$.getJSON()

## \$.get()

```
$.get( "http://lewagon.org", function( data ) {  
    console.log("Page chargée !");  
    console.log(data); // Code HTML  
});
```

## \$.post()

```
$.post( "http://lewagon.org/login",  
  {  
    email: "dehan.gabriel@gmail.com",  
    password: "hellokitty"  
  },  
  function( data ) {  
    console.log("Vous avez bien été authentifié !");  
  }  
);
```

# READ THE DOC

- <https://api.jquery.com/jquery.ajax/>
- <https://api.jquery.com/jquery.get/>
- <https://api.jquery.com/jquery.post/>