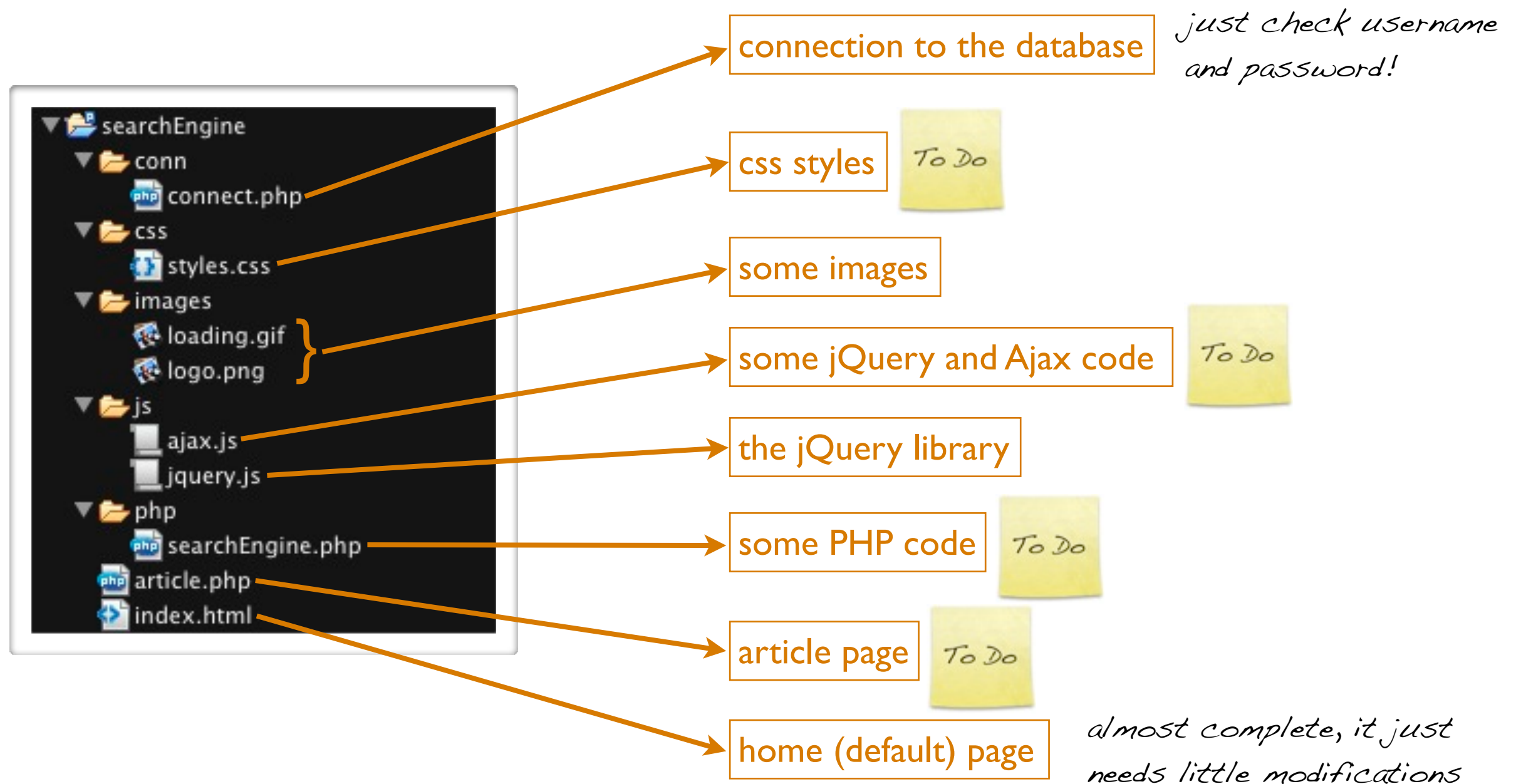


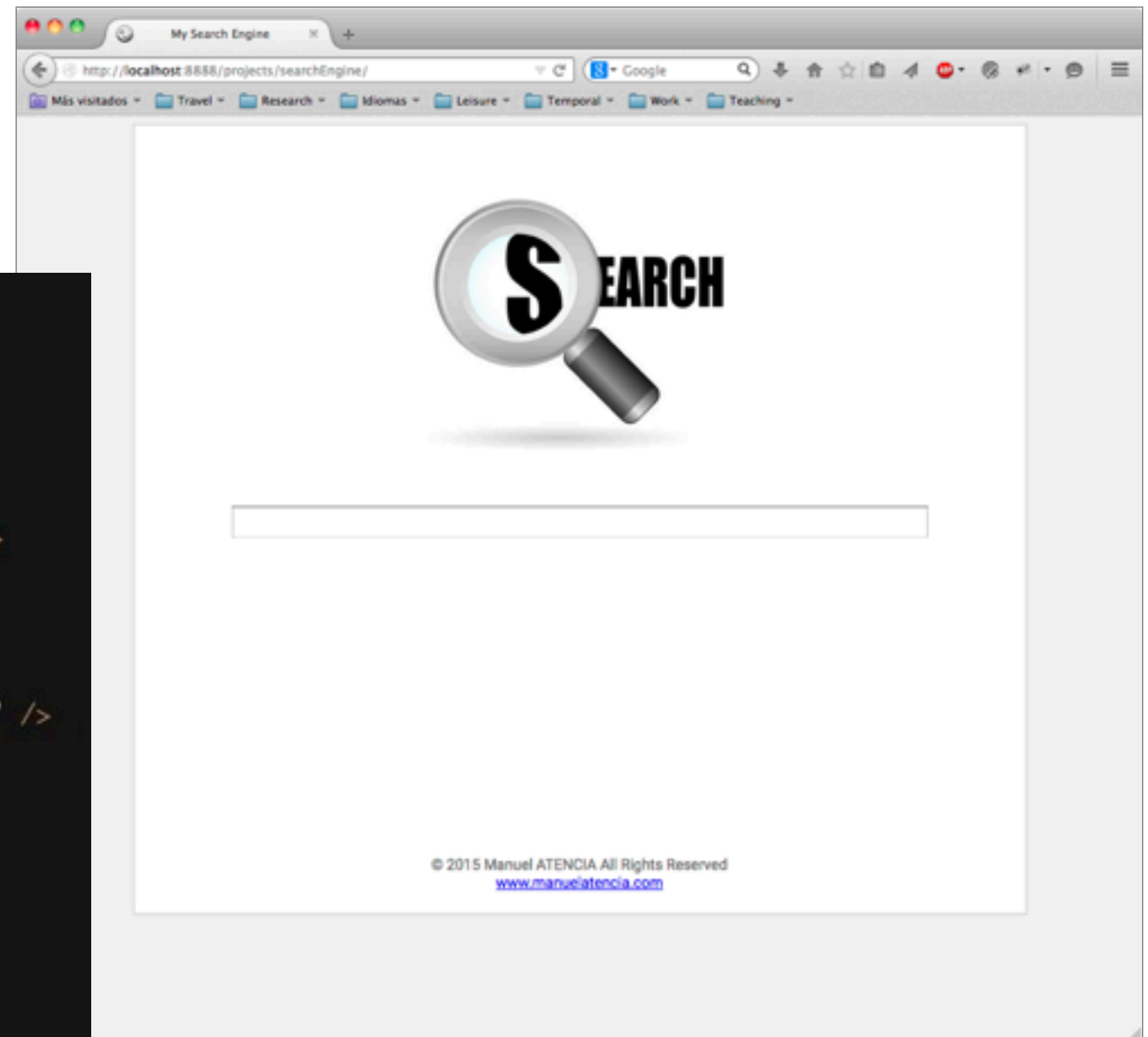
# searchEngine (mini) project



# The HTML skeleton

index.html

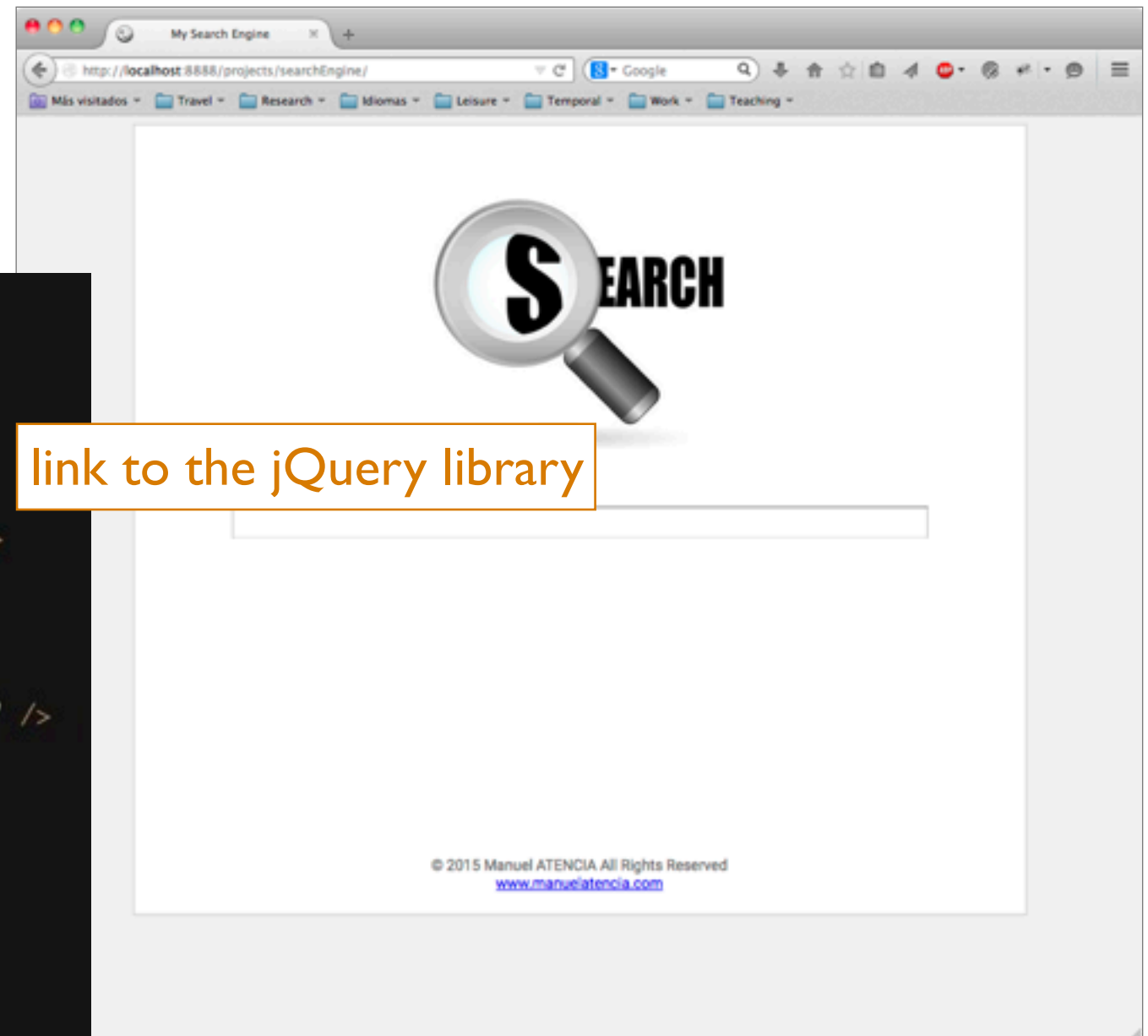
```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```



# The HTML skeleton

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```



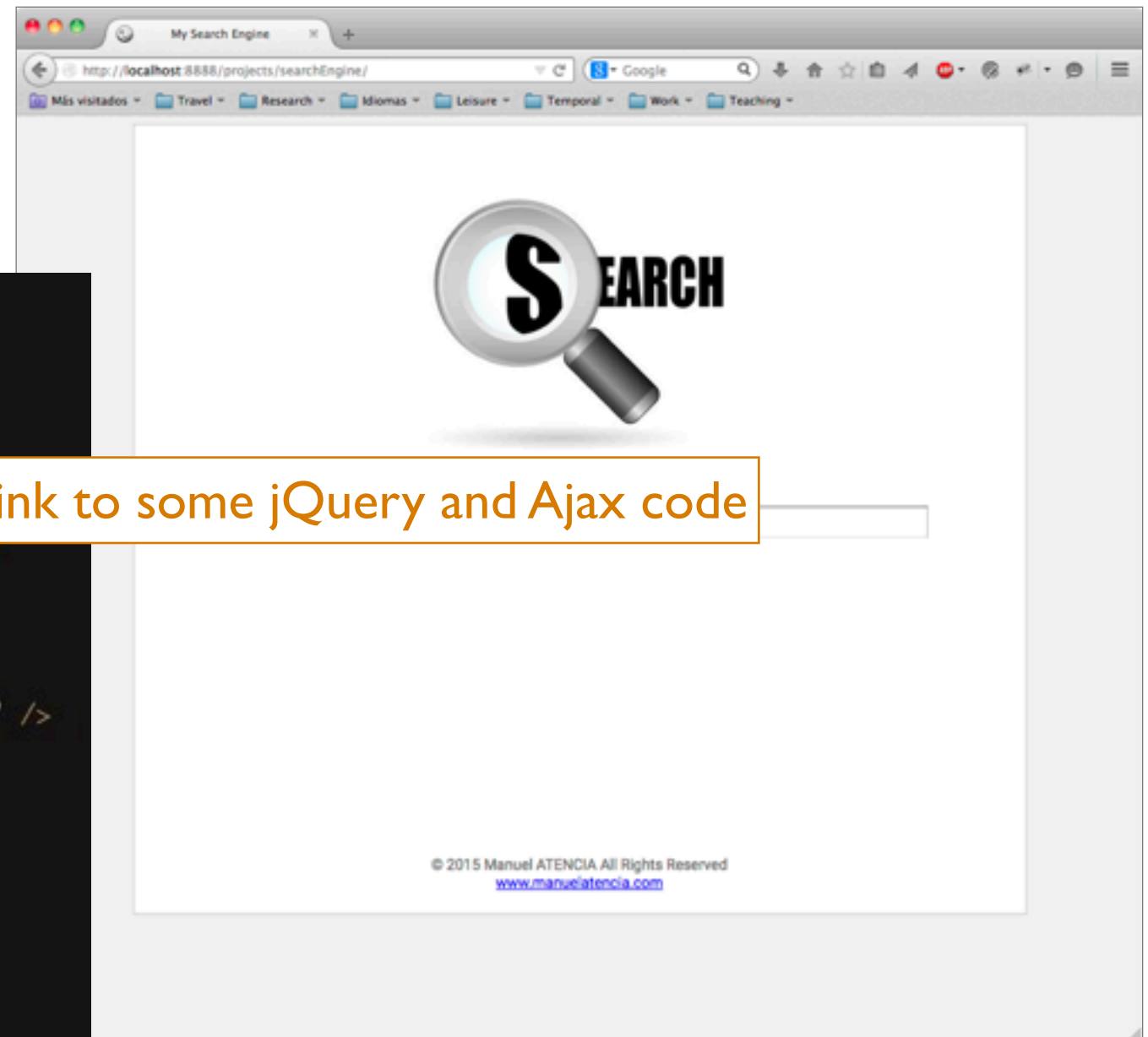
link to the jQuery library

# The HTML skeleton

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```

link to some jQuery and Ajax code



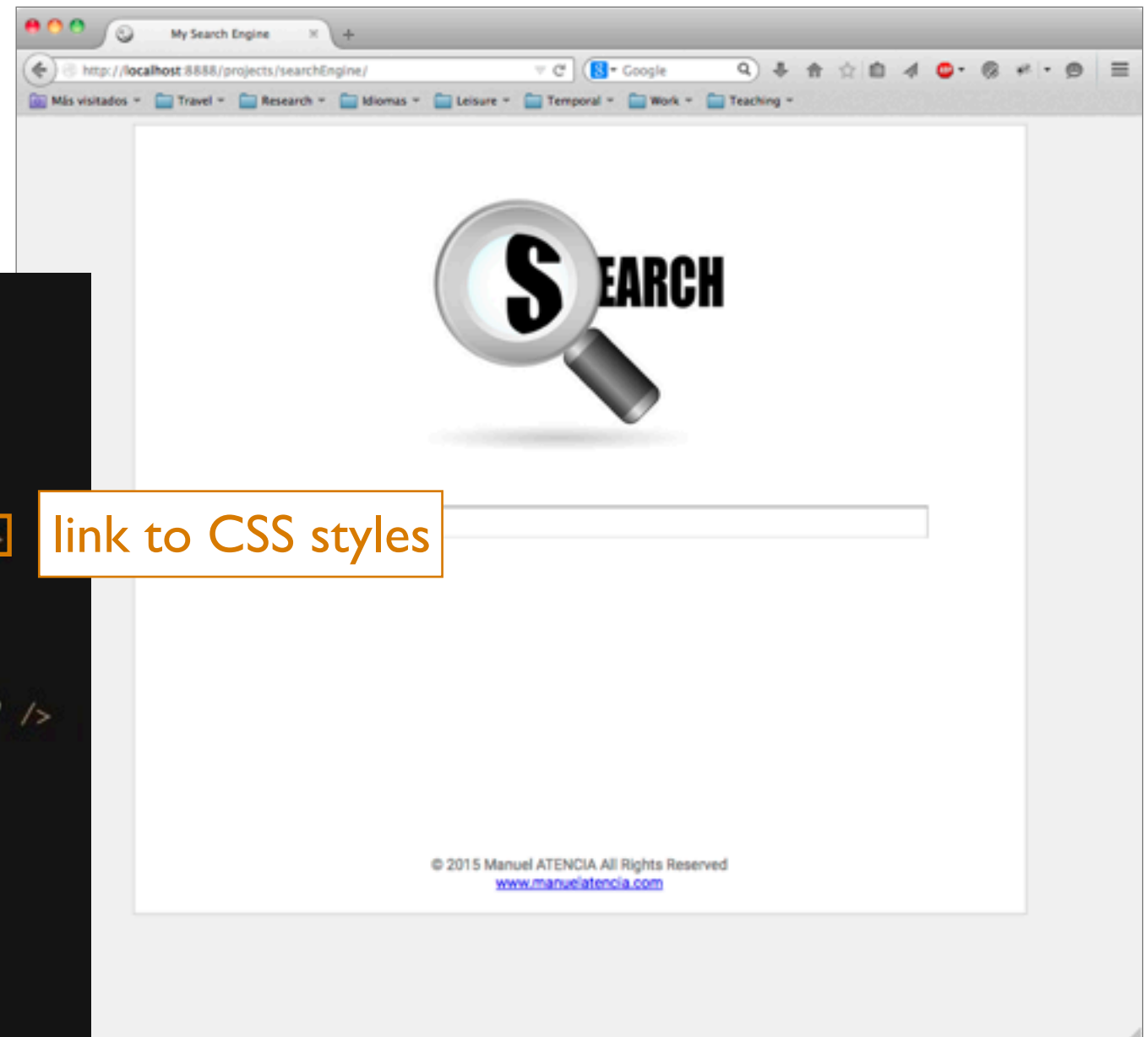


# The HTML skeleton

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```

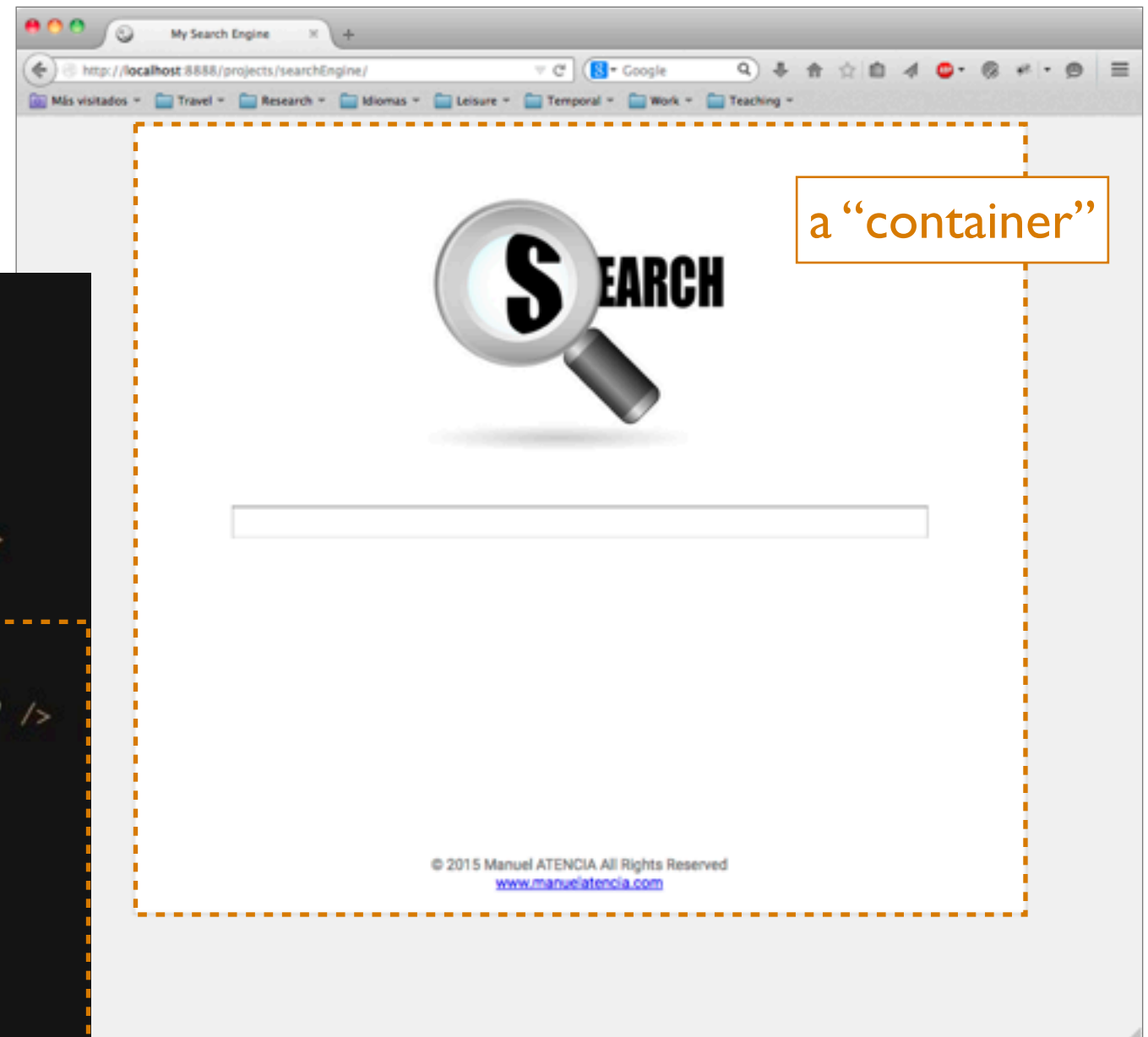
link to CSS styles



# The HTML skeleton

index.html

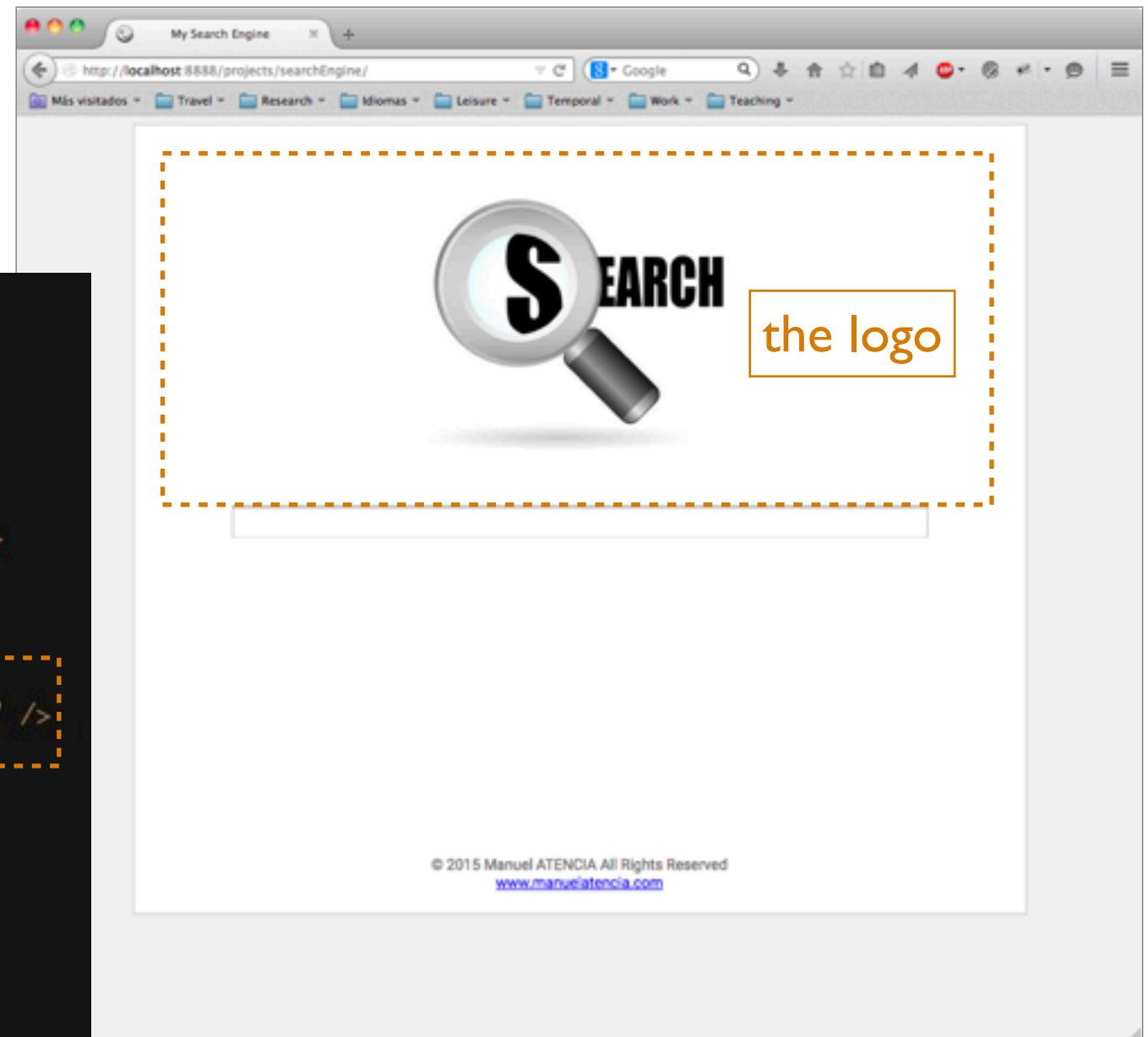
```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```



# The HTML skeleton

index.html

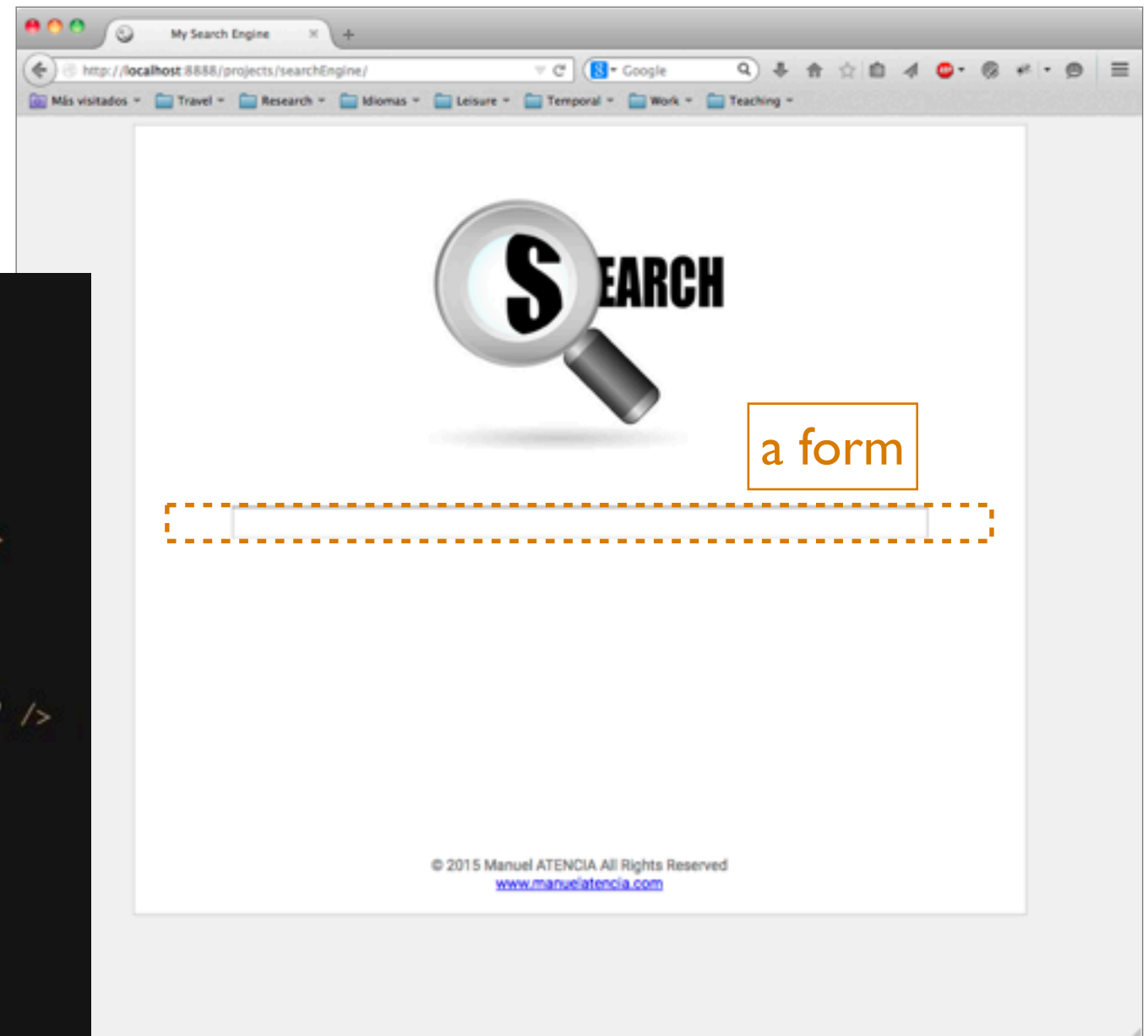
```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```



# The HTML skeleton

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```

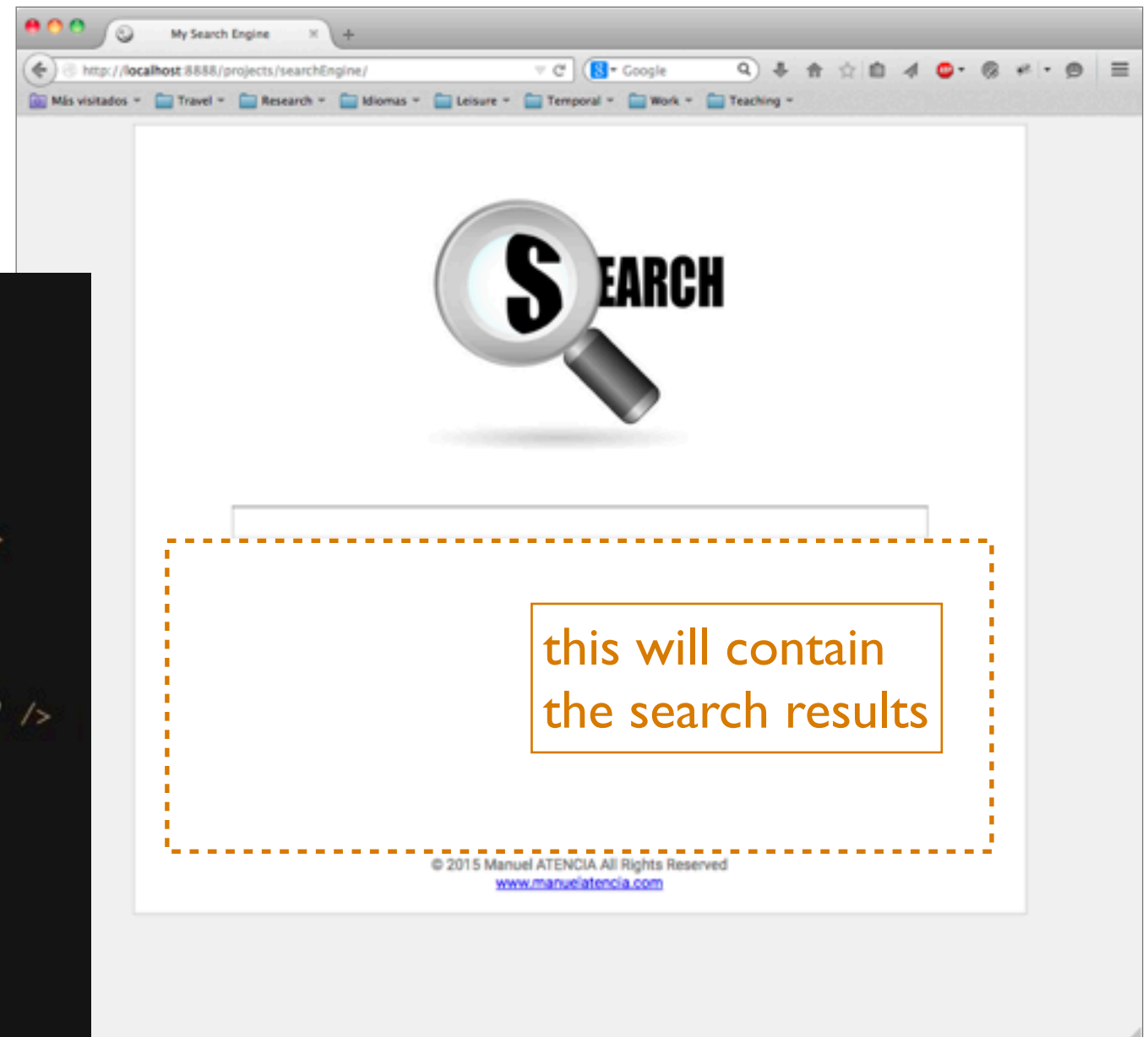




# The HTML skeleton

index.html

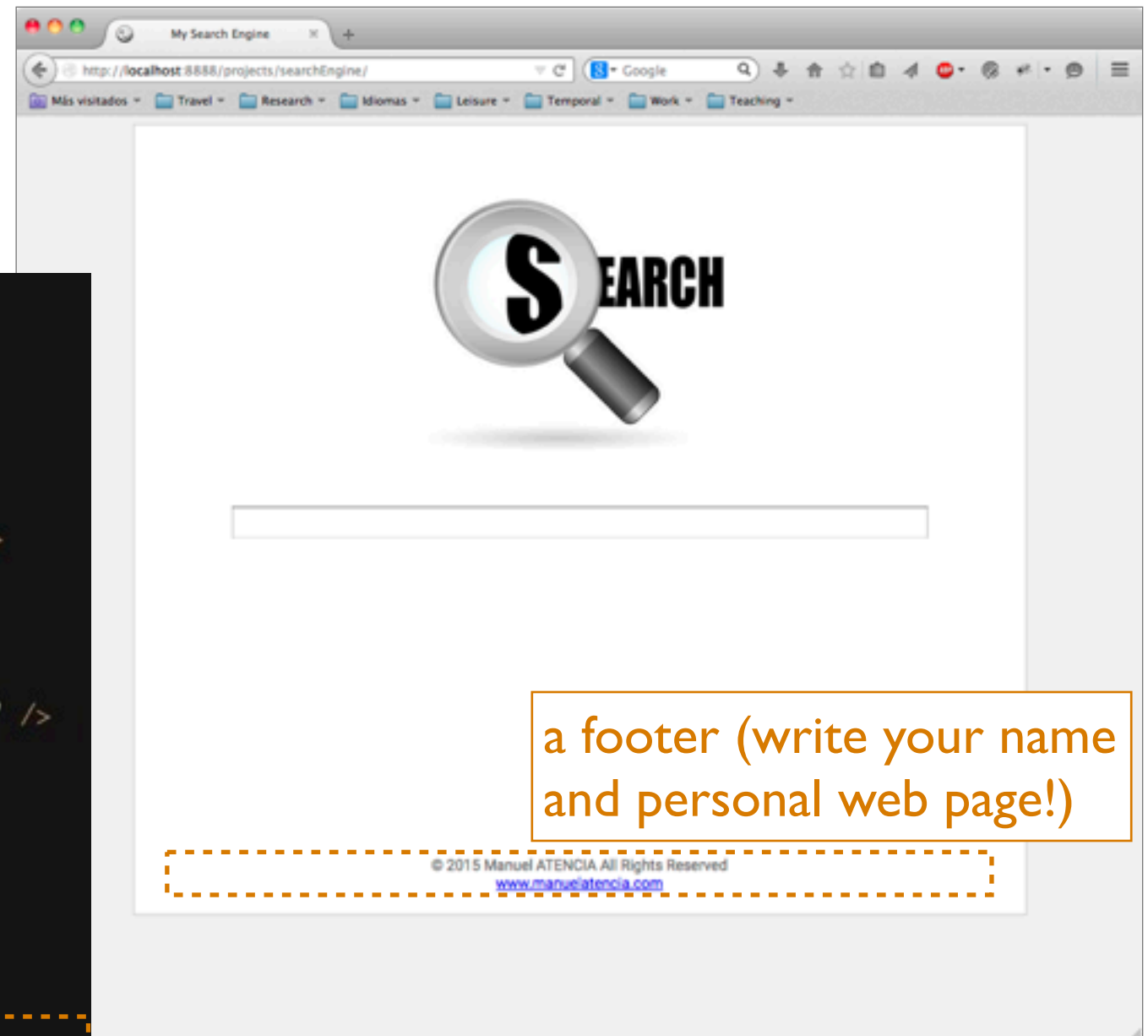
```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```



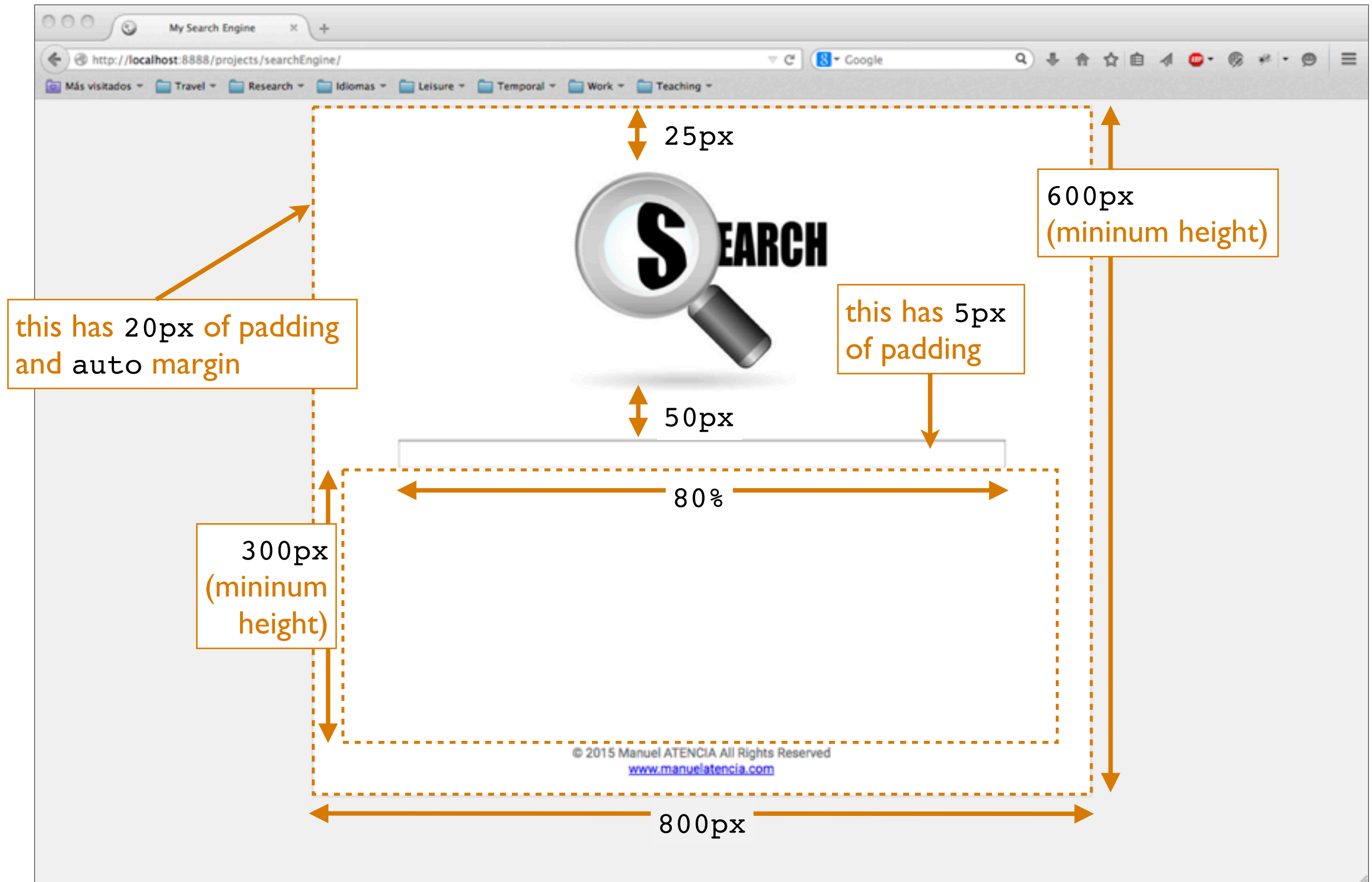
# The HTML skeleton

index.html

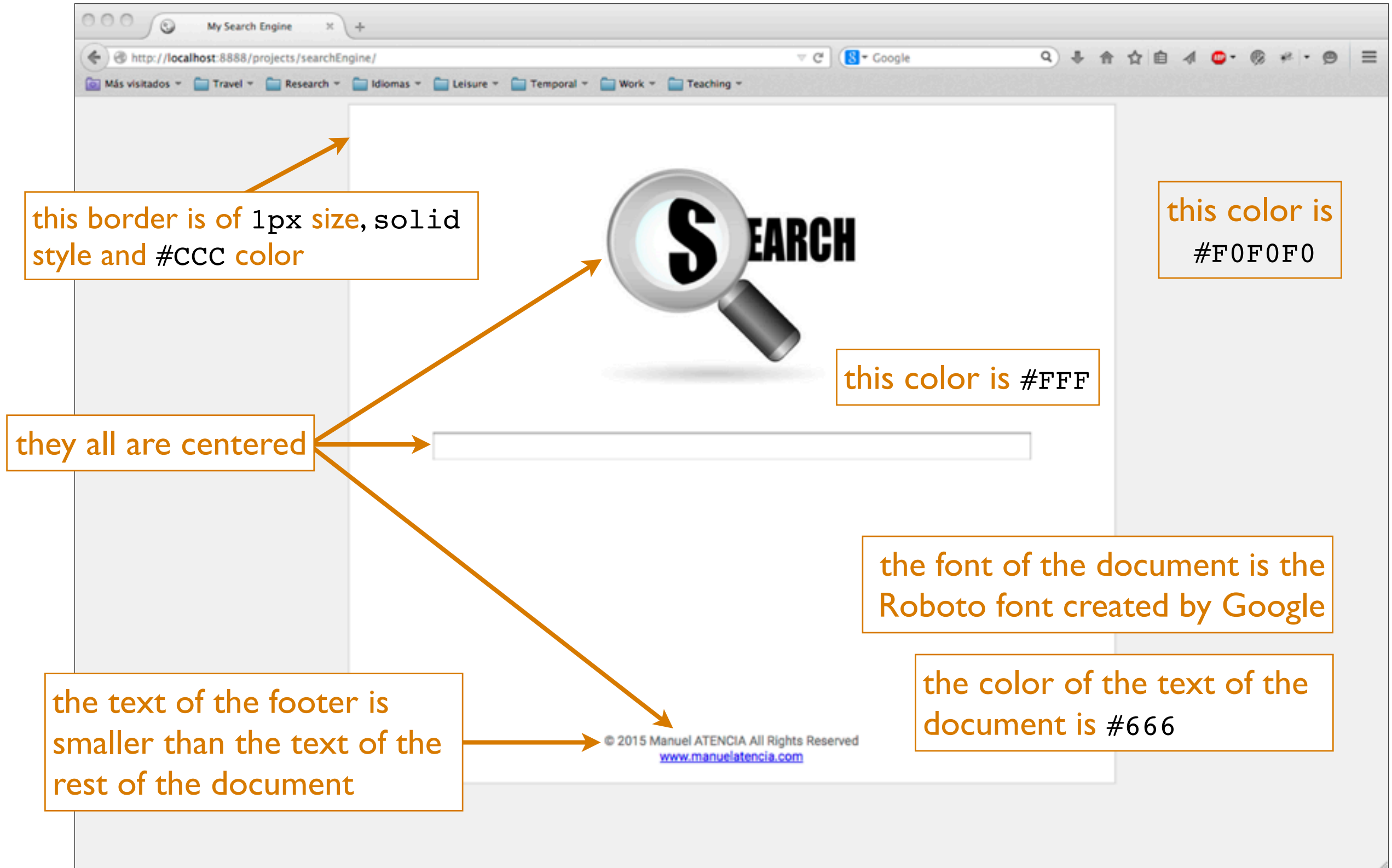
```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```



# The CSS styles

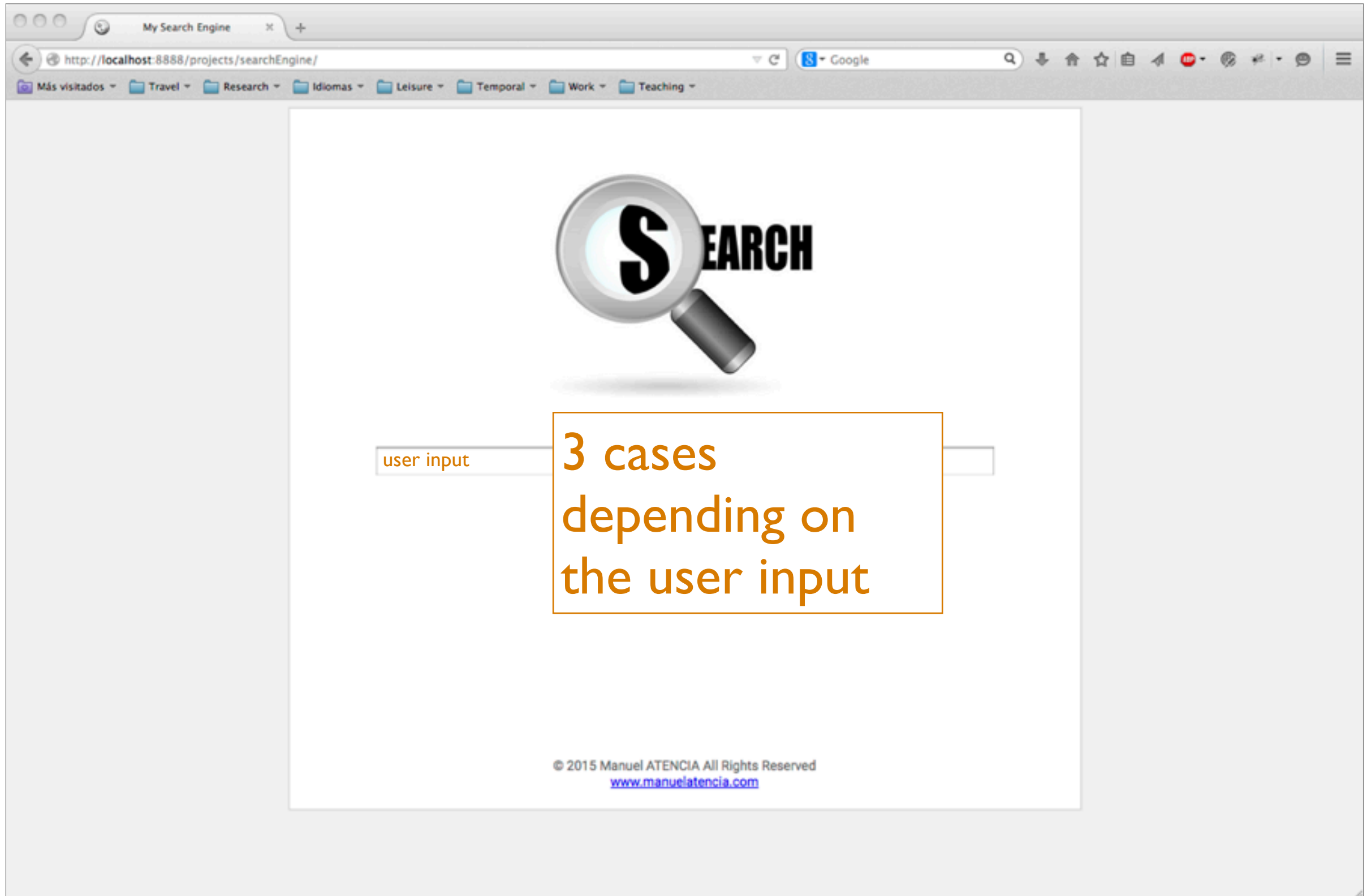


# The CSS styles

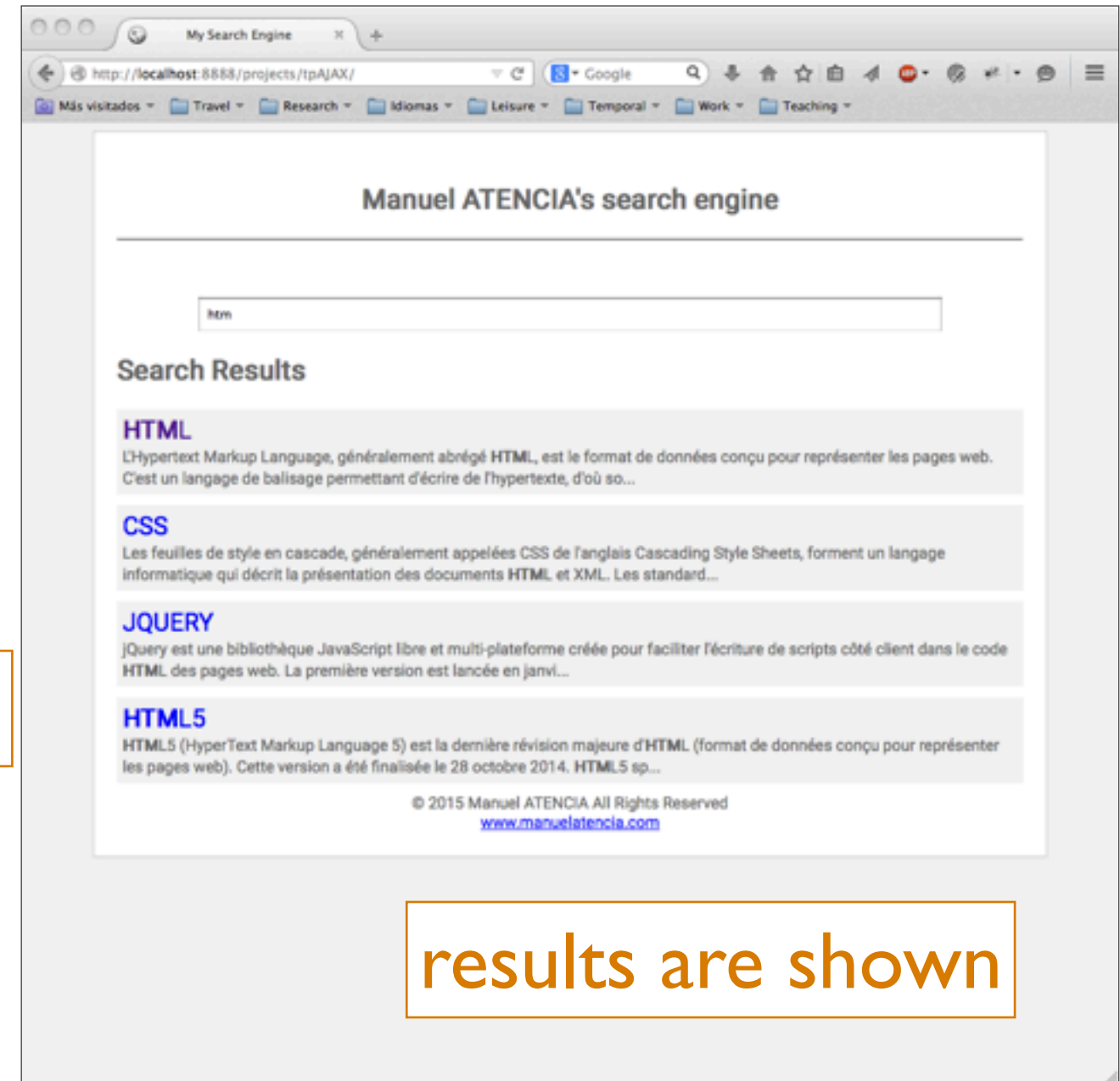
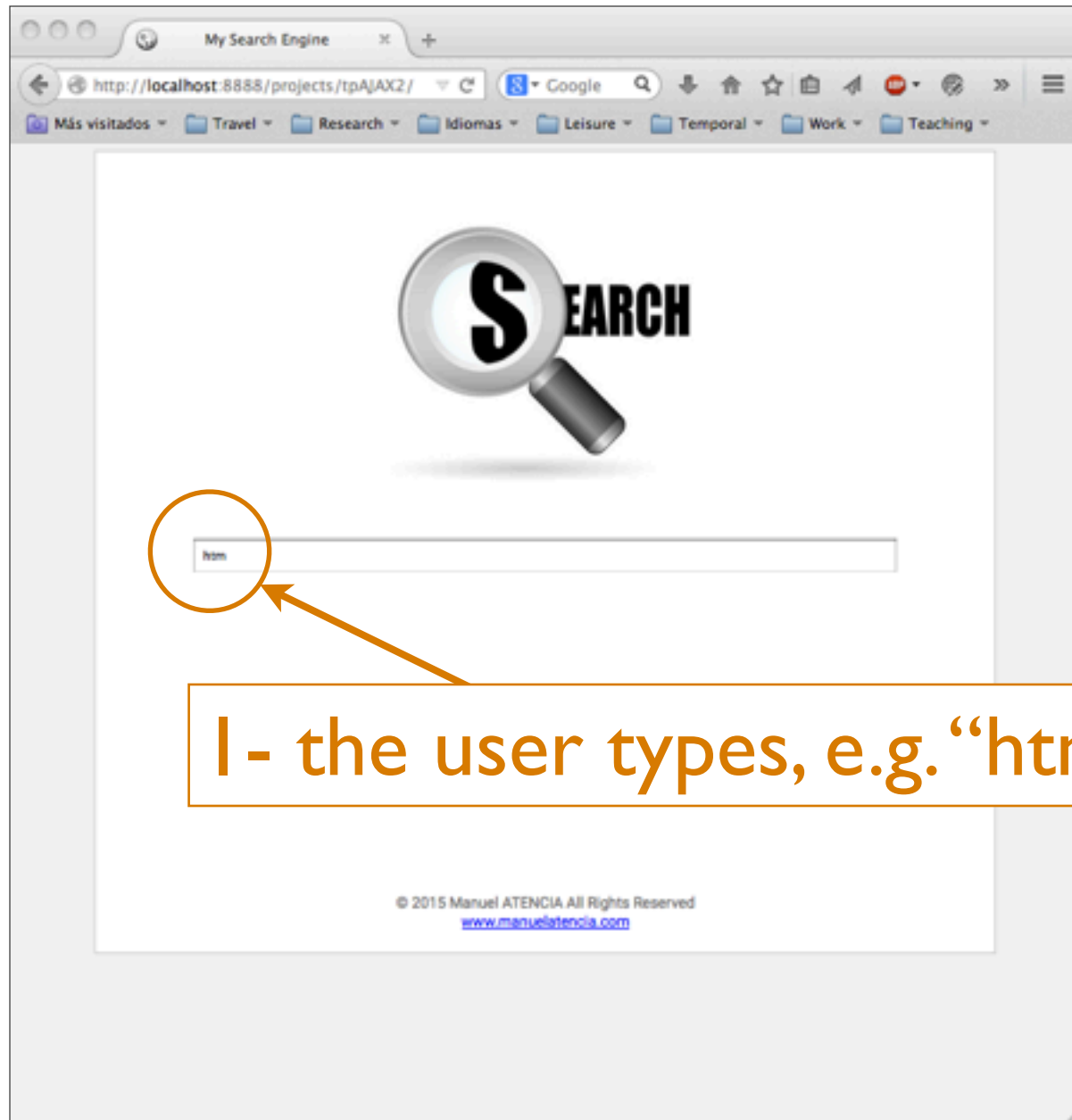




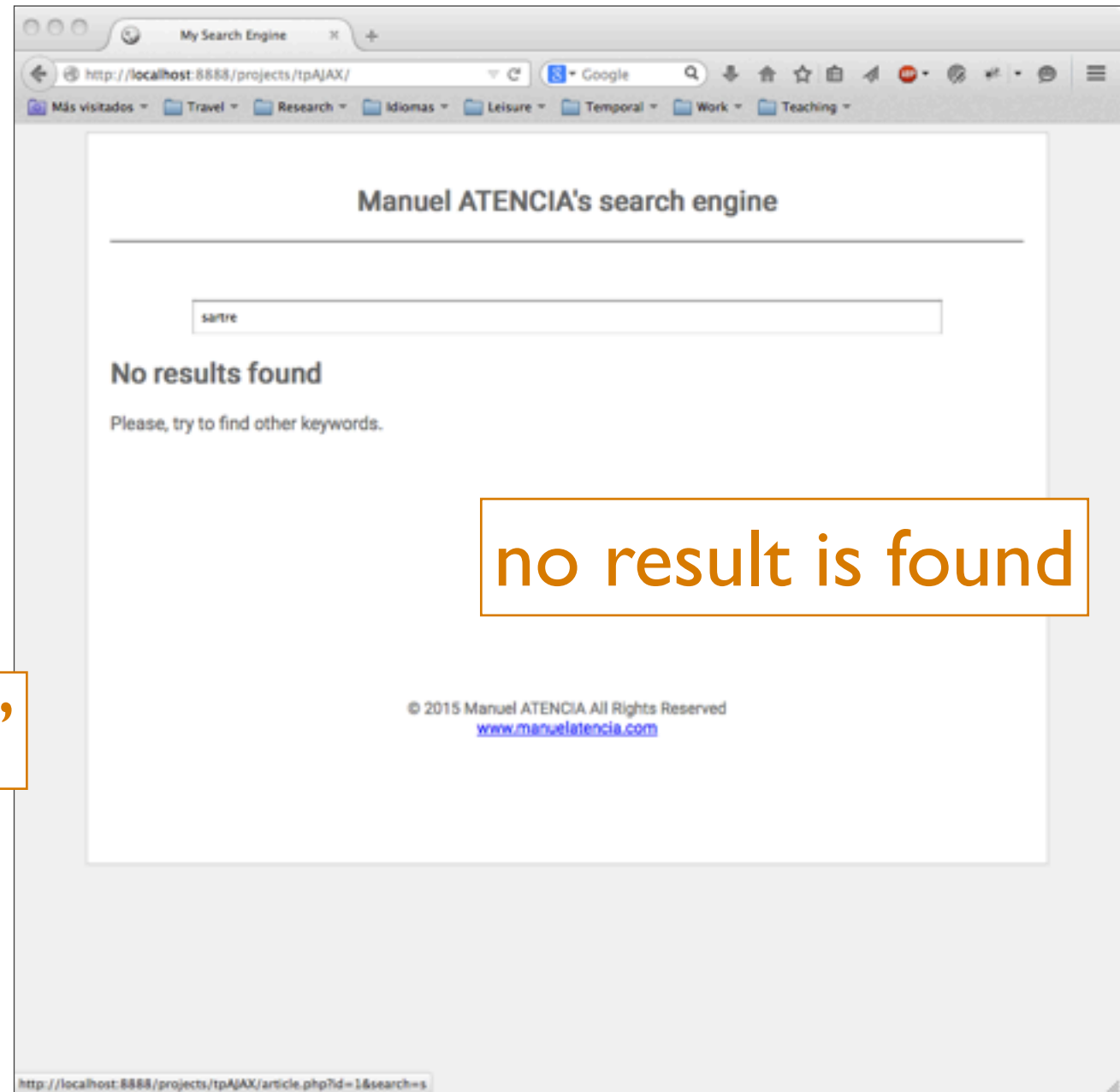
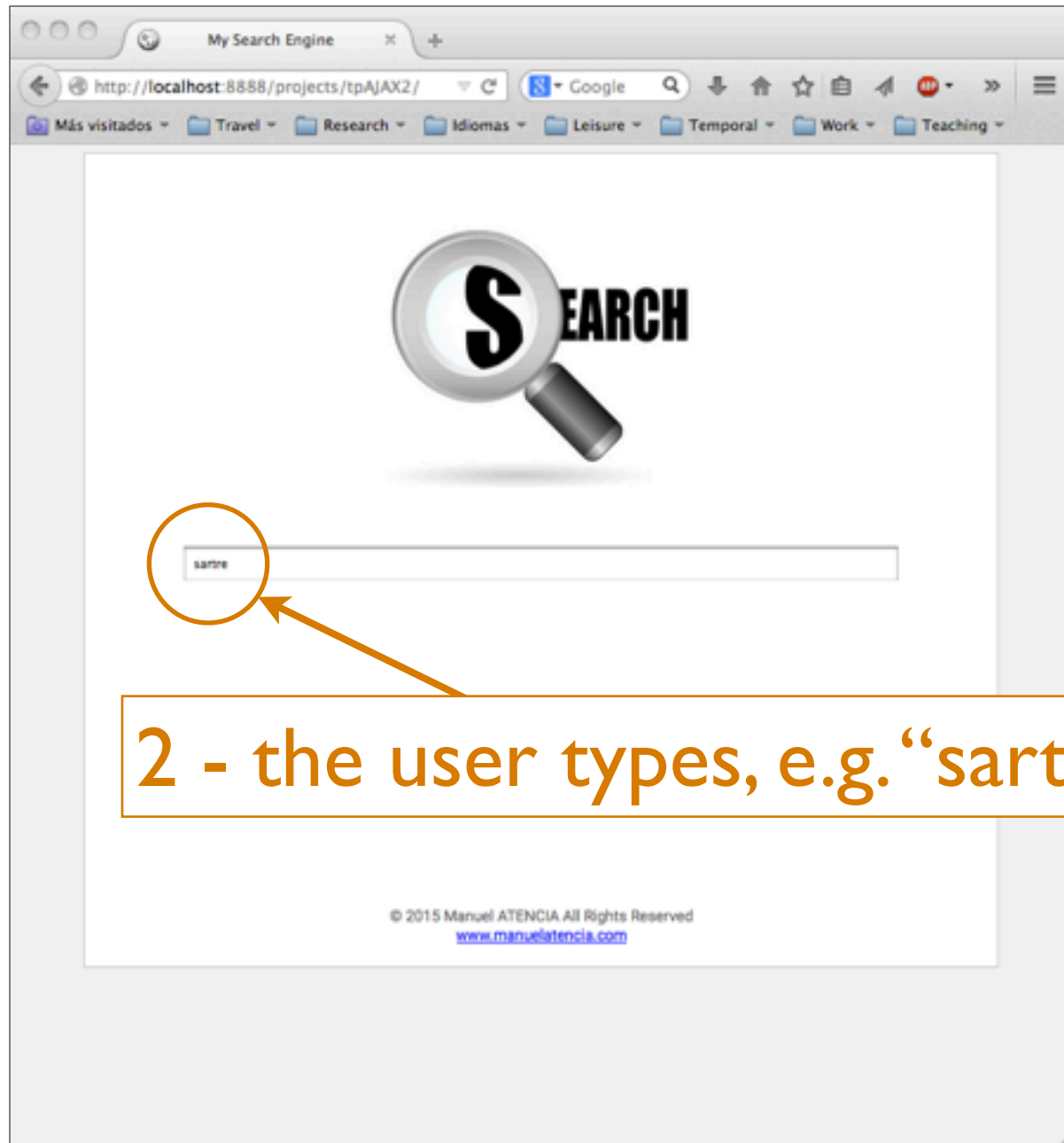
# Client-server communication. PHP, Ajax and jQuery



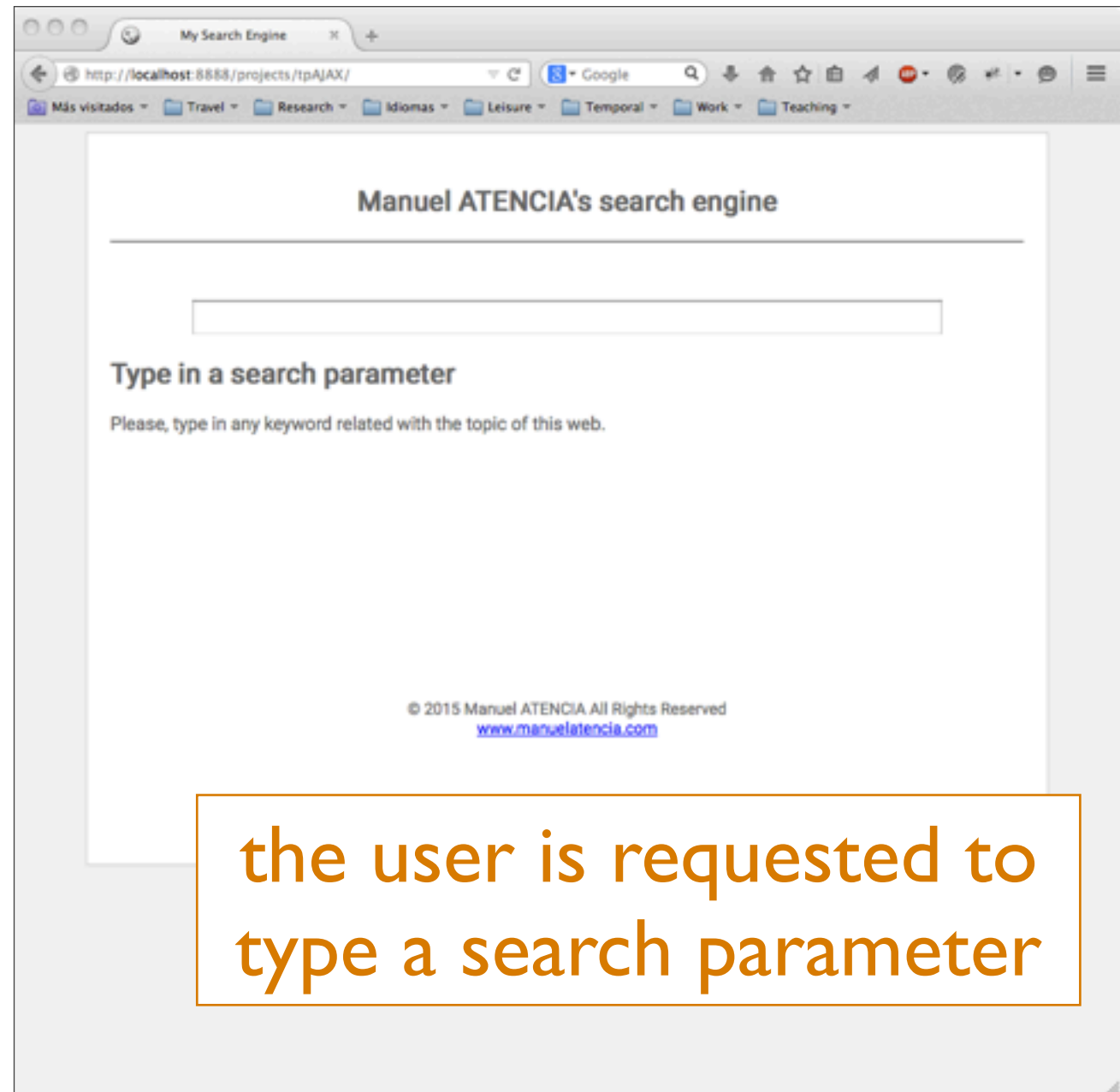
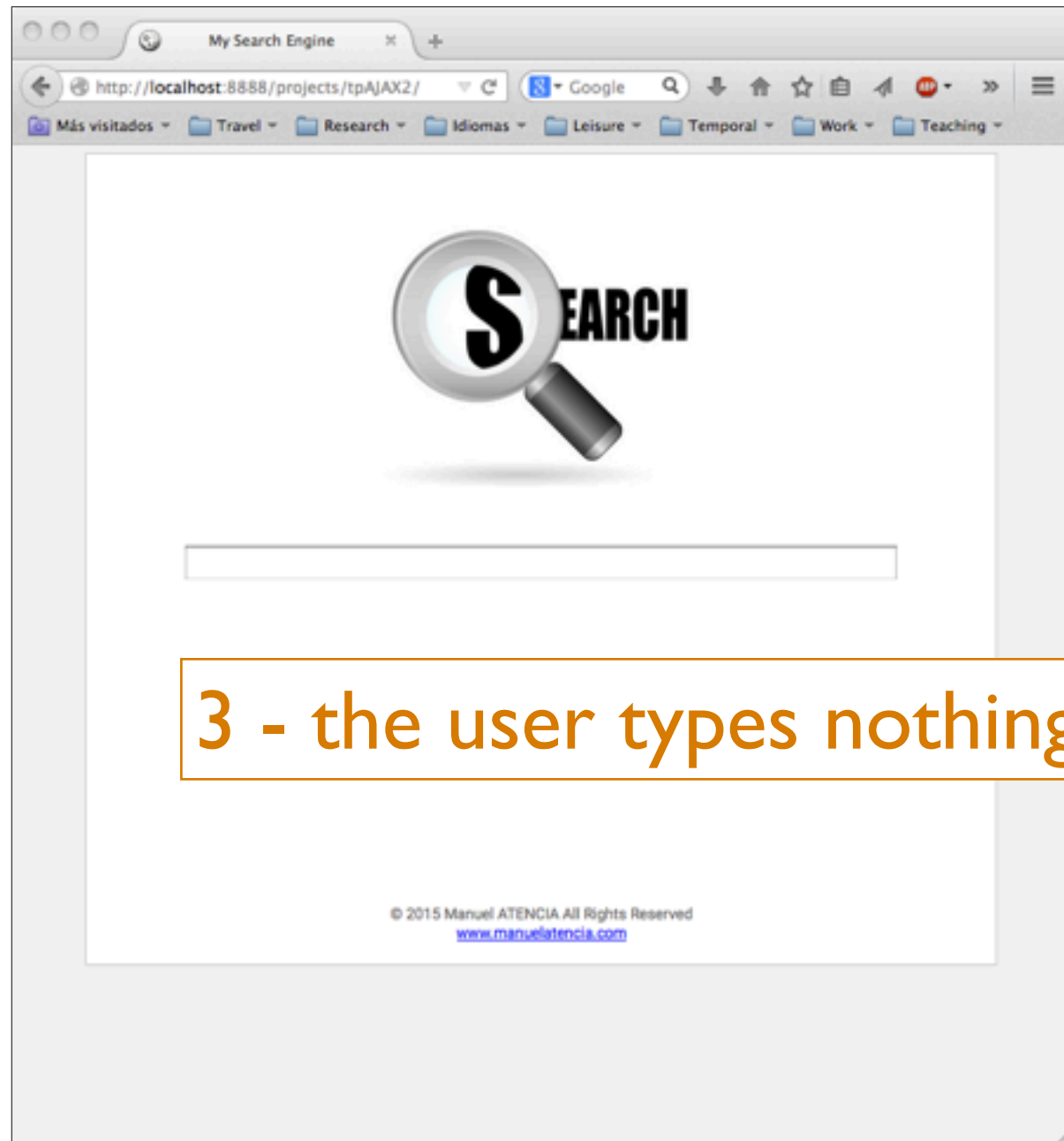
# Client-server communication. PHP, Ajax and jQuery



# Client-server communication. PHP, Ajax and jQuery

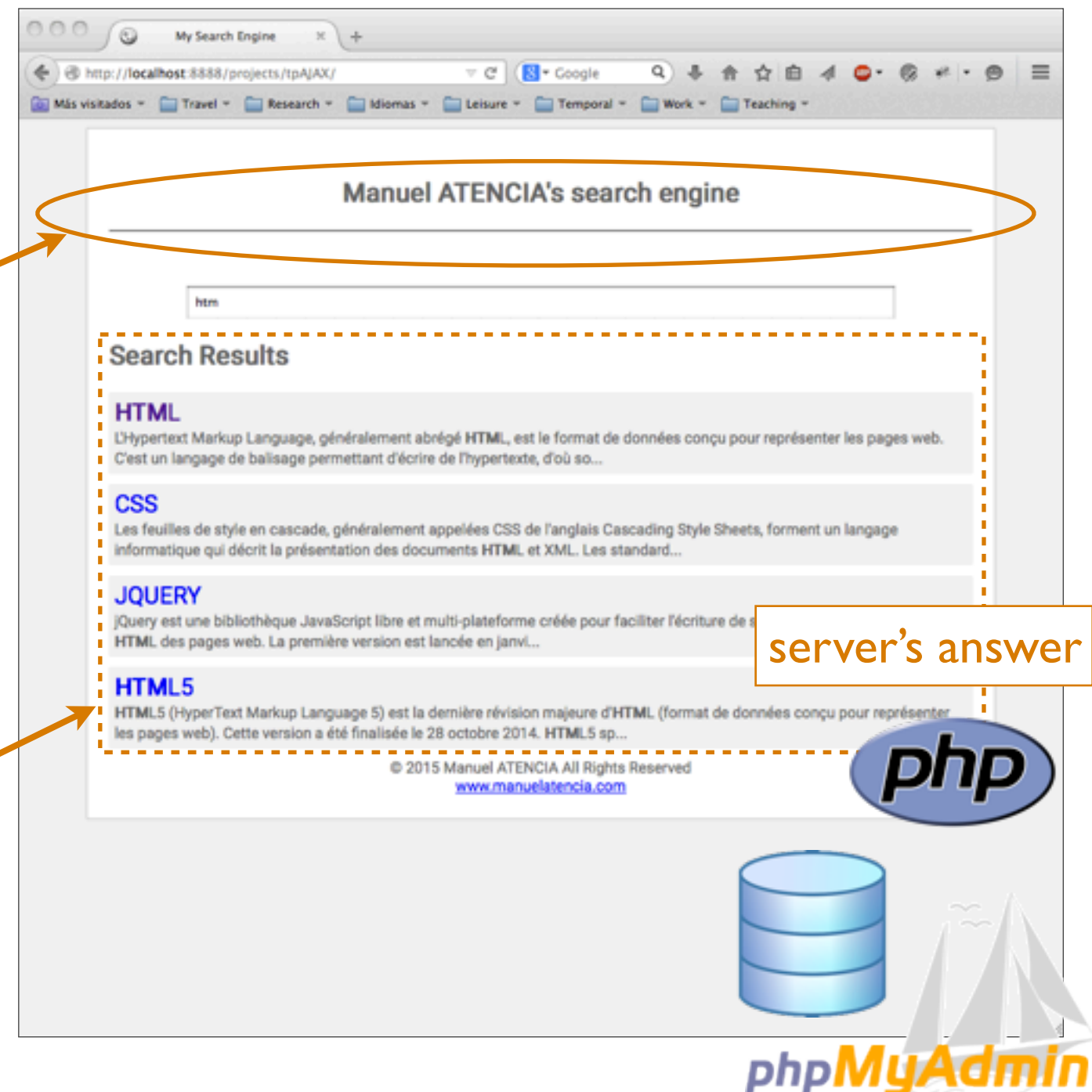
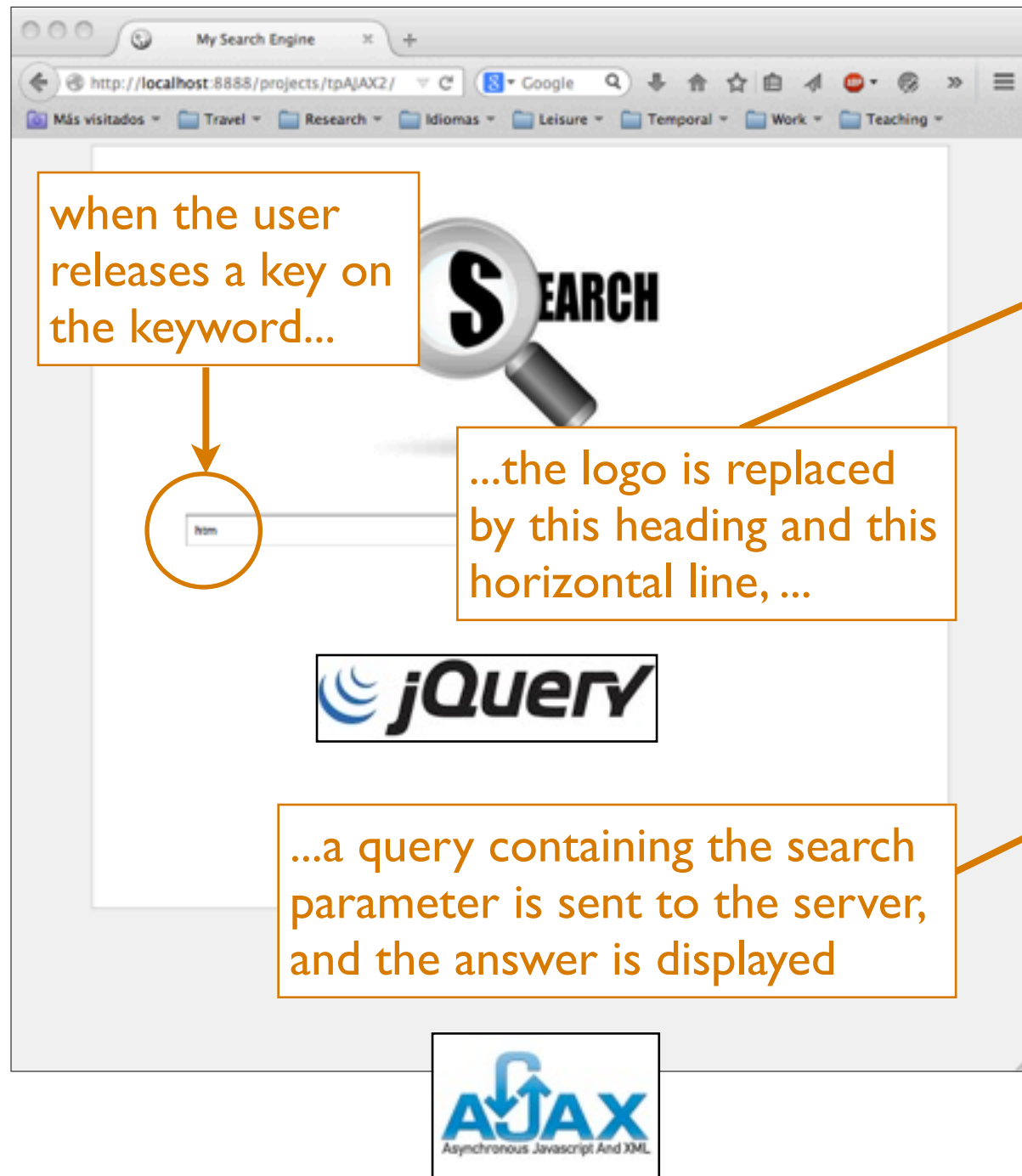


# Client-server communication. PHP, Ajax and jQuery

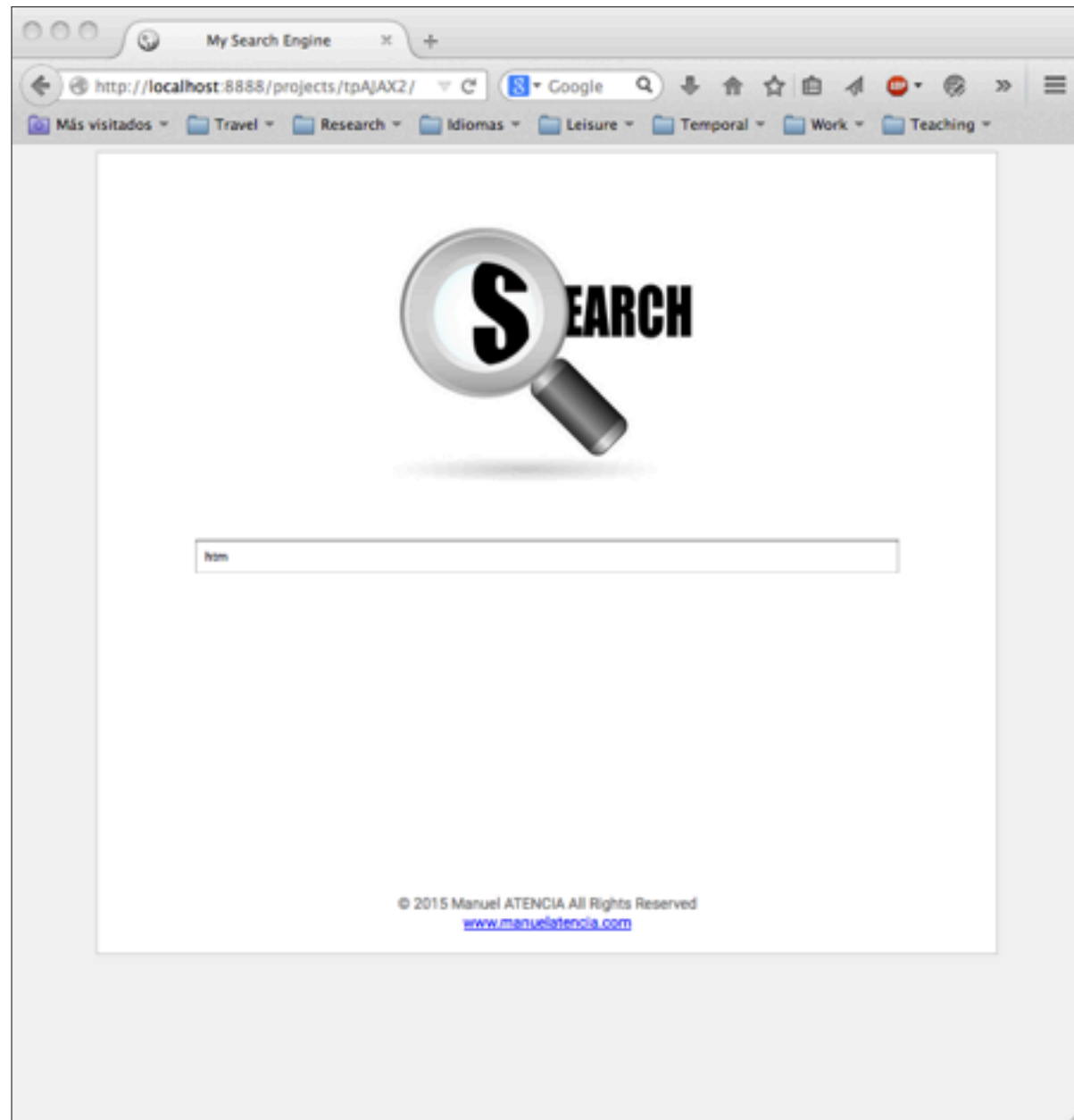




# Client-server communication. PHP, Ajax and jQuery



# Client-server communication. PHP, Ajax and jQuery



# Client-server communication. PHP, Ajax and jQuery

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel ATENCIA All Rights Reserved<br />
      <a href="http://www.manuelatencia.com">www.manuelatencia.com</a>
    </div>
  </div>
</body>
</html>
```

# Client-server communication. PHP, Ajax and jQuery

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel
      <a href="http://www"
    </div>
  </div>
</body>
</html>
```

ajax.js

```
$(function(){ // when the dom is ready and loaded

});
```



# Client-server communication. PHP, Ajax and jQuery

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel
      <a href="http://www"
    </div>
  </div>
</body>
</html>
```

ajax.js

```
$(function(){ // when the dom is ready and loaded
  when the user releases a key on the keyword:

});
```

# Client-server communication. PHP, Ajax and jQuery

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      → 
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        → <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel
      <a href="http://www"
    </div>
  </div>
</body>
</html>
```

ajax.js

```
$(function(){ // when the dom is ready and loaded
  when the user releases a key on the keyword:

  jQuery code to remove the logo and replace
  it by the heading and horizontal line

});
```

# Client-server communication. PHP, Ajax and jQuery

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      → 
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        → <input type="text" name="search" id="search_input" />
      </form>
    </div>
    → <div id="results">
      </div>
    <div id="footer">
      &copy; 2015 Manuel
      <a href="http://www" />
    </div>
  </div>
</body>
</html>
```

ajax.js

```
$(function(){ // when the dom is ready and loaded
  when the user releases a key on the keyword:

  jQuery code to remove the logo and replace
  it by the heading and horizontal line

  Ajax call with the user input (e.g. "htm")
  to be sent to the server to retrieve and
  show the results of the query

});
```

# Client-server communication. PHP, Ajax and jQuery

client



index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel
      <a href="http://www" />
    </div>
  </div>
</body>
</html>
```

ajax.js

```
$(function(){ // when the dom is ready and loaded
  when the user releases a key on the keyword:

  jQuery code to remove the logo and replace
  it by the heading and horizontal line

  Ajax call with the user input (e.g. "htm")
  to be sent to the server to retrieve and
  show the results of the query

});
```



server



# Client-server communication. PHP, Ajax and jQuery

client



POST http://.../searchEngine.php



server

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel
      <a href="http://www" />
    </div>
  </div>
</body>
</html>
```

ajax.js

```
$(function(){ // when the dom is ready and loaded
  when the user releases a key on the keyword:
  jQuery code to remove the logo and replace
  it by the heading and horizontal line
  Ajax call with the user input (e.g. "htm")
  to be sent to the server to retrieve and
  show the results of the query
});
```

# Client-server communication. PHP, Ajax and jQuery

client



POST http://.../searchEngine.php



server

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel
      <a href="http://www" />
    </div>
  </div>
</body>
</html>
```

ajax.js

```
$(function(){ // when the dom is ready and loaded
  when the user releases a key on the keyword:
  jQuery code to remove the logo and replace
  it by the heading and horizontal line
  Ajax call with the user input (e.g. "htm")
  to be sent to the server to retrieve and
  show the results of the query
});
```

searchEngine.php

```
<?php
php code generating articles whose
titles match with the user input

if no result is found, an
explanatory message is created

?>
```

# Client-server communication. PHP, Ajax and jQuery

client



index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>My Search Engine</title>
  <meta charset="UTF-8" />
  <script type="text/javascript" src="js/jquery.js"></script>
  <script type="text/javascript" src="js/ajax.js"></script>
  <link rel="stylesheet" type="text/css" href="css/styles.css" />
</head>
<body>
  <div id="container">
    <div id="logo">
      
    </div>
    <div class="form">
      <form action="" method="post" id="search_form">
        <input type="text" name="search" id="search_input" />
      </form>
    </div>
    <div id="results">
    </div>
    <div id="footer">
      &copy; 2015 Manuel
      <a href="http://www" />
    </div>
  </div>
</body>
</html>
```

ajax.js

```
$(function(){ // when the dom is ready and loaded
  when the user releases a key on the keyword:

  jQuery code to remove the logo and replace
  it by the heading and horizontal line

  Ajax call with the user input (e.g. "htm")
  to be sent to the server to retrieve and
  show the results of the query

});
```



server

searchEngine.php

```
<?php

php code generating articles whose
titles match with the user input

if no result is found, an
explanatory message is created

?>
```

# Client-server communication. PHP, Ajax and jQuery

identifier of an article

title of an article

text of an article

number of visits  
(initially 1)

table “articles” from the  
database “searchEngine”

id	name	article	visits
1	php	PHP: Hypertext Preprocessor, plus connu sous son s...	1
2	ajax	L'architecture informatique Ajax (acronyme d'Async...	1
3	html	L'Hypertext Markup Language, généralement abrégé H...	1
4	html5	HTML5 (HyperText Markup Language 5) est la dernièr...	1
5	css	Les feuilles de style en cascade, généralement app...	1
6	javascript	JavaScript est un langage de programmation de scri...	1
7	jquery	jQuery est une bibliothèque JavaScript libre et mu...	1

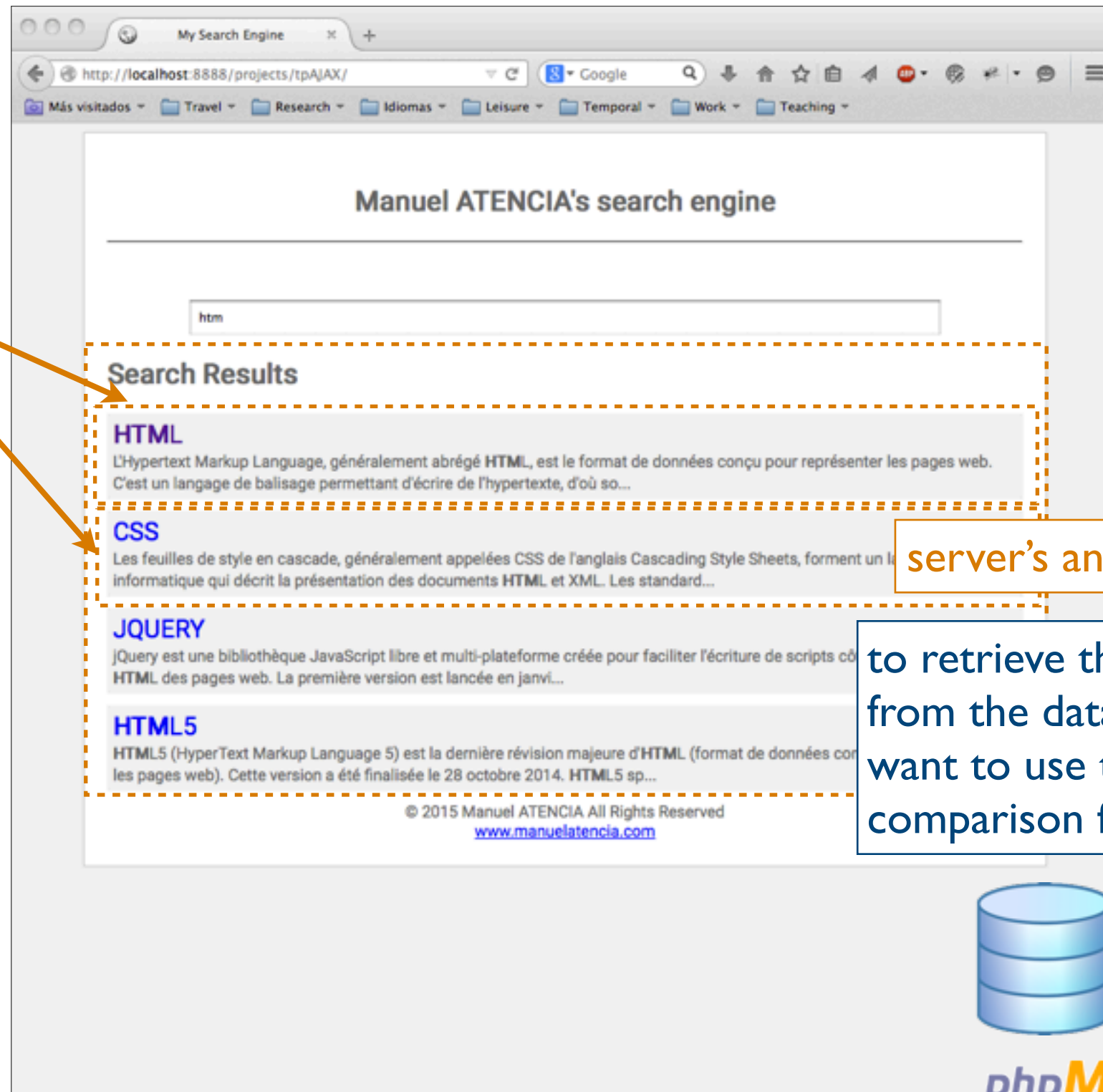




# Client-server communication. PHP, Ajax and jQuery

articles

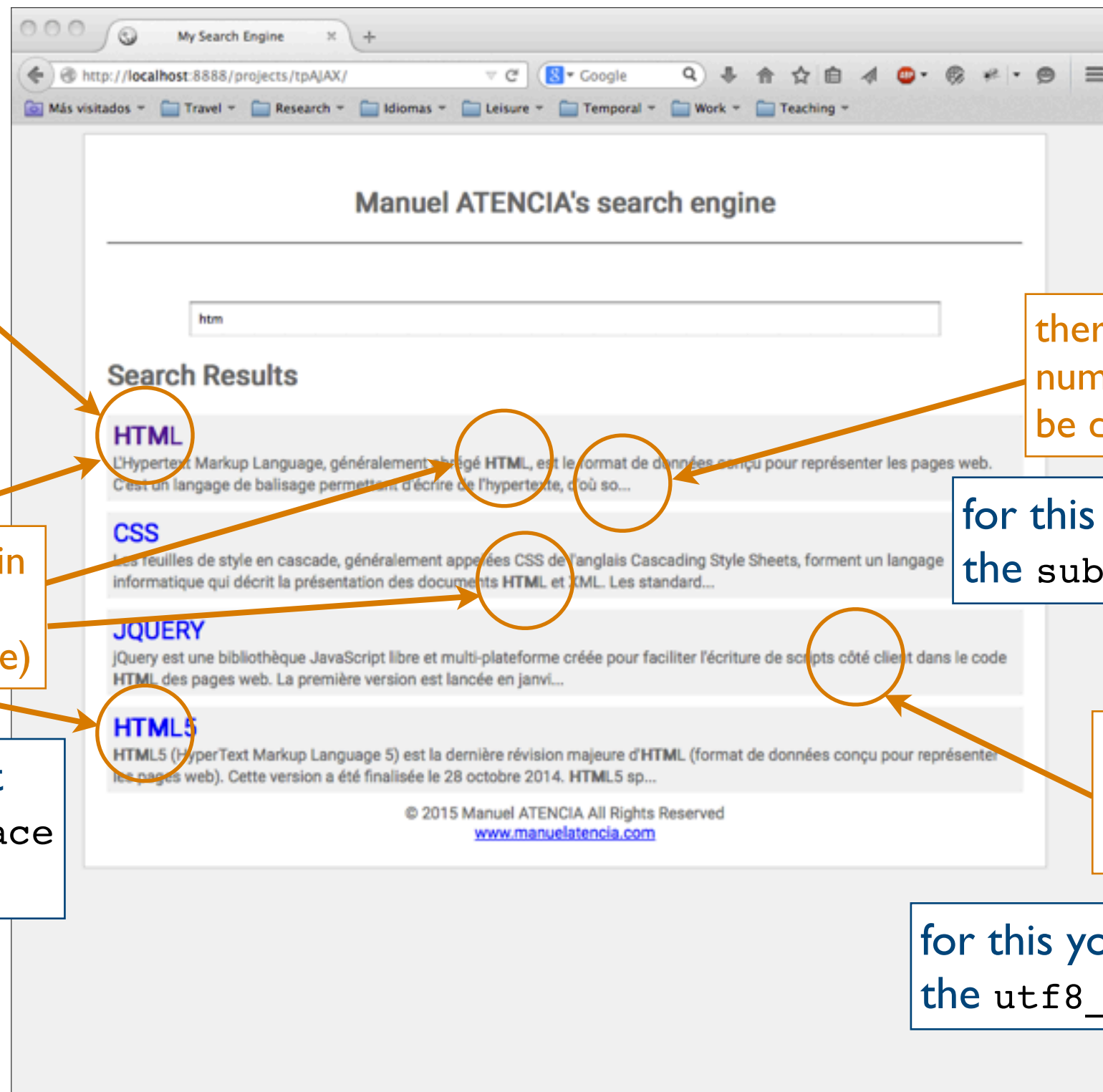
think of setting the  
style of articles:  
background color,  
margin, padding...



server's answer

to retrieve these results  
from the database you may  
want to use the mysql string  
comparison function LIKE

# Client-server communication. PHP, Ajax and jQuery



titles of articles  
appear in uppercase

there is a maximum  
number of characters to  
be displayed (e.g. 200)

for this you may want to use  
the `substr` php function

mathing results appear in  
bold (both in the title  
and content of an article)

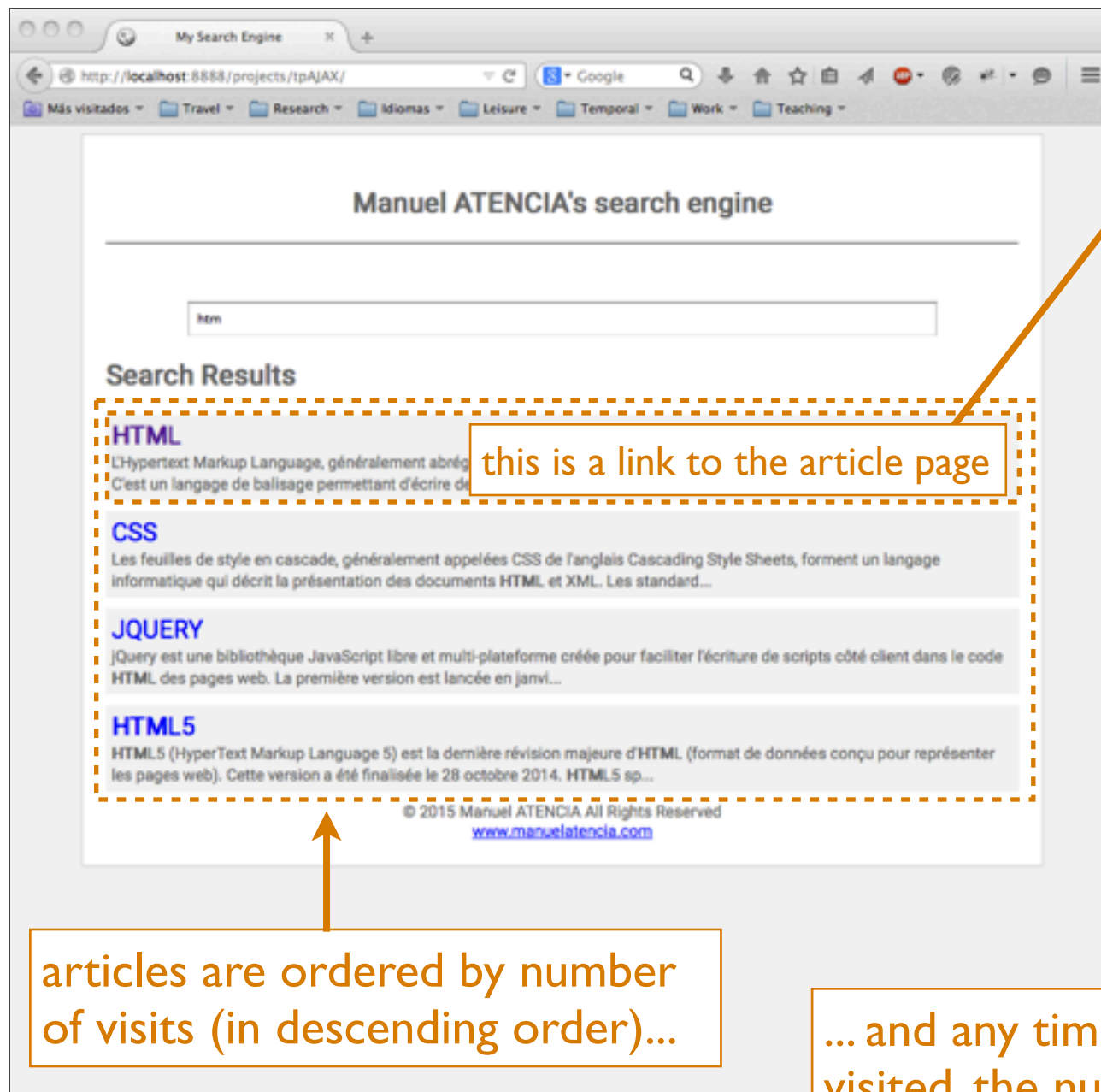
for this you may want  
to use the `str_replace`  
php function

French characters  
(e.g. côté) should be  
displayed properly

for this you may want to use  
the `utf8_encode` php function

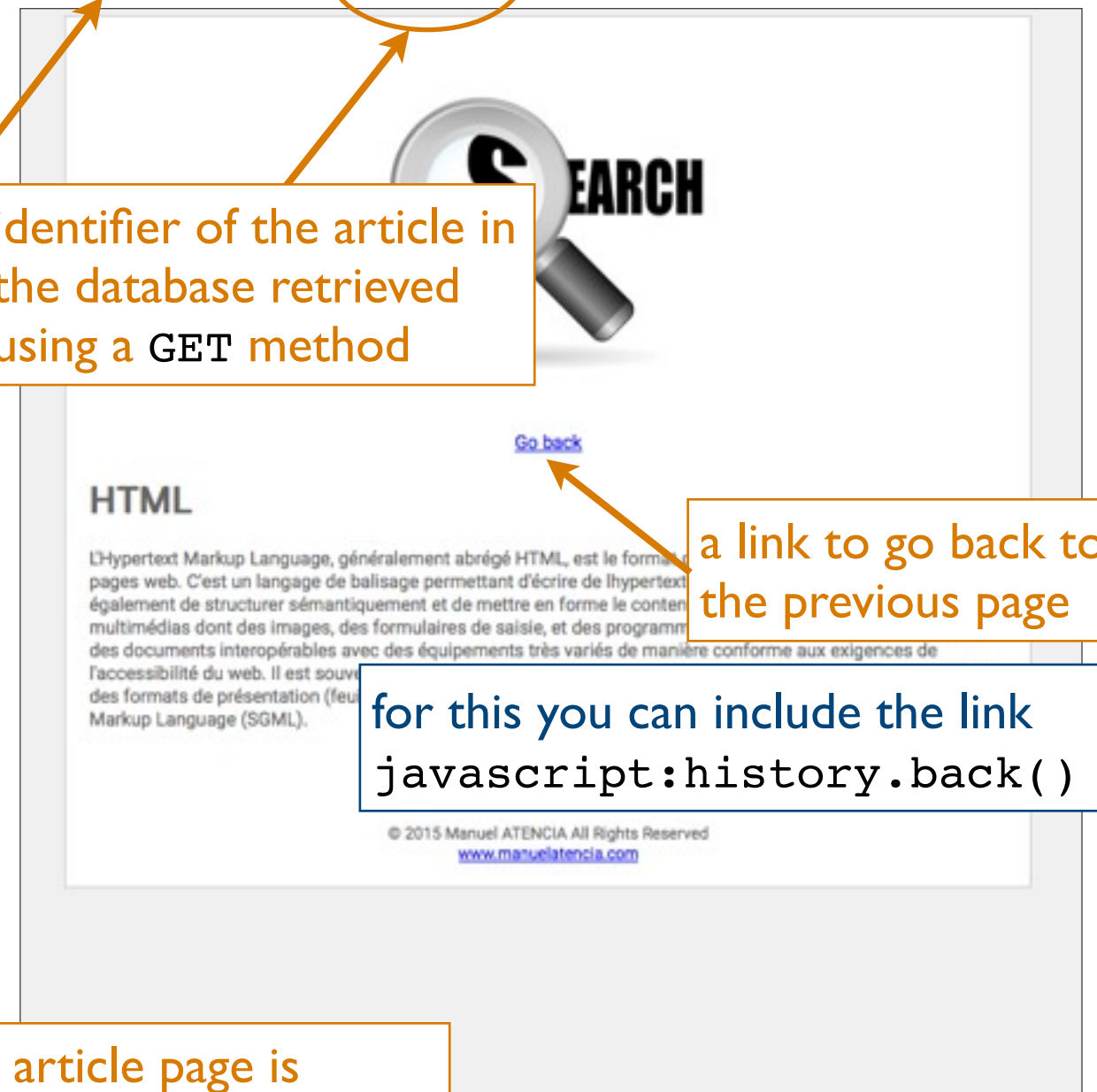
# Client-server communication. PHP, Ajax and jQuery

index.html



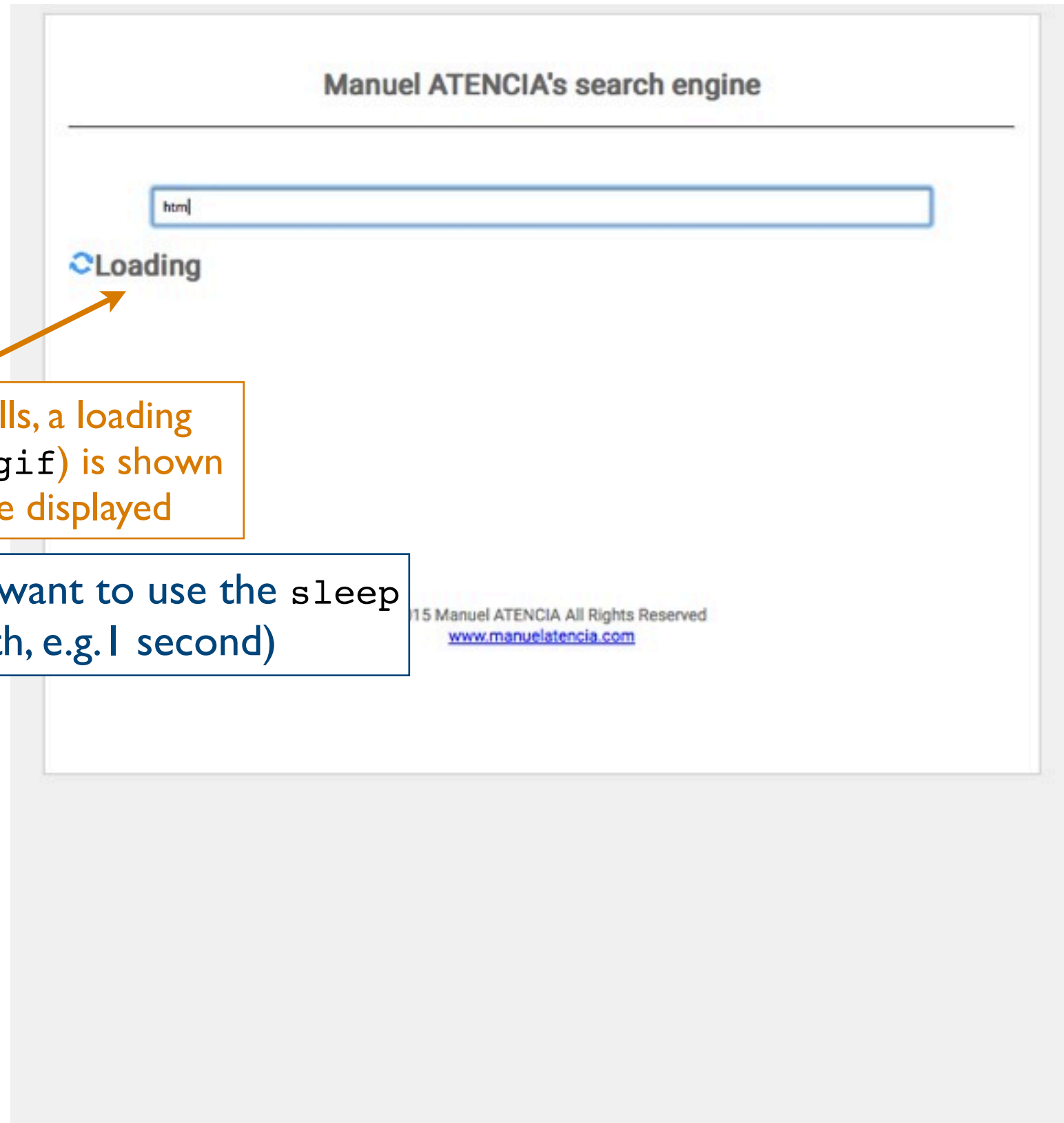
article.php?id=3

identifier of the article in the database retrieved using a GET method



for this you may want to use the mysql UPDATE statement and SET clause

# Client-server communication. PHP, Ajax and jQuery



to simulate ajax calls, a loading image (loading.gif) is shown until the results are displayed

for this you may want to use the sleep php function (with, e.g. 1 second)