

# HTML / CSS / JAVASCRIPT

Academic Year – 2012 / 2013

Mini Project

Love Meter



Mini Project 1 WEB

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## 1. The project : Love Meter

### 1.1. The game

You will propose a service called "Love Meter" that will, from magic Numbers, find a compatibility level between a couple.

How does that work?

1. The user gives you two names
2. You calculate the magic number of each of these name.
3. You give the result to the user, in a table.

#### 1.1.1. Get the names

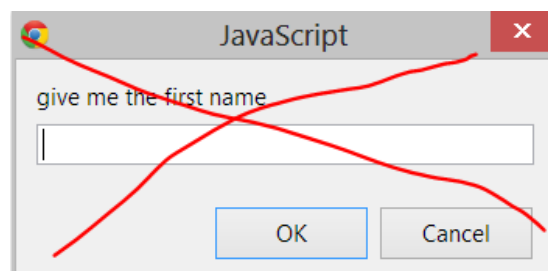
You need to get the 2 names by using 2 text inputs and a button to send the information.

Name 1 :

Name 2 :

Do they love each other ?

No prompt!



For the next steps, don't forget to make sure:

- The names are not empty
- No special characters or space
- Put everything in uppercase to be sure that Jim = JiM = JIM.

For example:

- Léo → LEO
- Xiao Zhu → XIAOZHU

## 1.1.2. Magic Number

To find the magic number, you will use the addition of products of each letter and a coefficient (index of the letter in the word) as shown below :

Example : "jim"

The charCode of "j" is 106, j is at the 1<sup>st</sup> position in the name :

j :  $106^1 = 106 \rightarrow 1 + 0 + 6 = 7$

The charCode of "i" is 105, i is at the 2<sup>nd</sup> position in the name :

i :  $105^2 = 11025 \rightarrow 1 + 1 + 0 + 2 + 5 = 9$

The charCode of "m" is 109, m is at the 3<sup>rd</sup> position in the name :

m :  $109^3 = 1295029 \rightarrow 1 + 2 + 9 + 5 + 0 + 2 + 9 = 28 \rightarrow 2 + 8 = 10 \rightarrow 1 + 0 = 1$

TOTAL :  $7 + 9 + 1 = 17 \rightarrow 1 + 7 = 8$

8 is the magic number of "jim"

### Some help :

- To get the value of a letter, you have to use .charCodeAt on a string (index begins at 0).

Example : "tatito".charCodeAt(3) → gives 105 assuming that at the index 3, there is the "i" letter.

- To proceed the operation 9 power 2:  $9^2$  in JavaScript, we use : Math.pow(9,2)
- You may also need these method :
  - parseInt : [http://www.w3school.com.cn/js/jsref\\_parseInt.asp](http://www.w3school.com.cn/js/jsref_parseInt.asp)
  - var.toString : [http://www.w3school.com.cn/js/jsref\\_toString\\_boolean.asp](http://www.w3school.com.cn/js/jsref_toString_boolean.asp)

## 1.1.3. The result

To get the love power of the couple you need to compare the magic number of each name:

- **"Perfect"** if they have the same magic number;
- **"High"** if the gap between the magic numbers is strictly lower than 3;
- **"Medium"** if the gap is between 3 and 6 (included);
- **"Low"** otherwise.

You have to display the results using a table, I want the Name 1, The name 2, the Love power, and the date. The newest, the first (Descending order). For exemple :

Name 1	Name 2	Love	Date
Jim	Jenna	Medium	09/04/2013 23:11
Zhang Ziyi	Bo Xilai	Medium	09/04/2013 23:07
Zhang Ziyi	Aviv Nevo	High	09/04/2013 23:04
Aviv Nevo	Kate Moss	High	09/04/2013 23:02

Every time the user will give us 2 names, you will create a new line, and insert it just after the table header. At the very beginning the table will be empty, only header

### BONUS :

- No more than 5 lines in the table. If you want to add a sixth line, you need to delete the oldest one first
- You can use jQuery to create some animation when you add or delete a new line.
- Add a button to delete one specific line

## 1.2. The Page

You are totally free about the design, all I want is a CLEAR and LIGHT design. Of course the best design (the clearest, the most attractive...) will get more point than the bad ones. You **can** for example use a color code helping to simplify the reading of the results and/or center the table and/or use a picture for the button which submit the names ... and so on. **UP TO YOU !** Be creative, make the page looks good, but clean and clear (don't overload the page with a lot of shinning pictures).

**All your code need to pass the strict validation (HTML / CSS / Javascript).**

*I will check your project using the last version of Google Chrome, so you have to be sure everything is working perfectly with Google Chrome.*

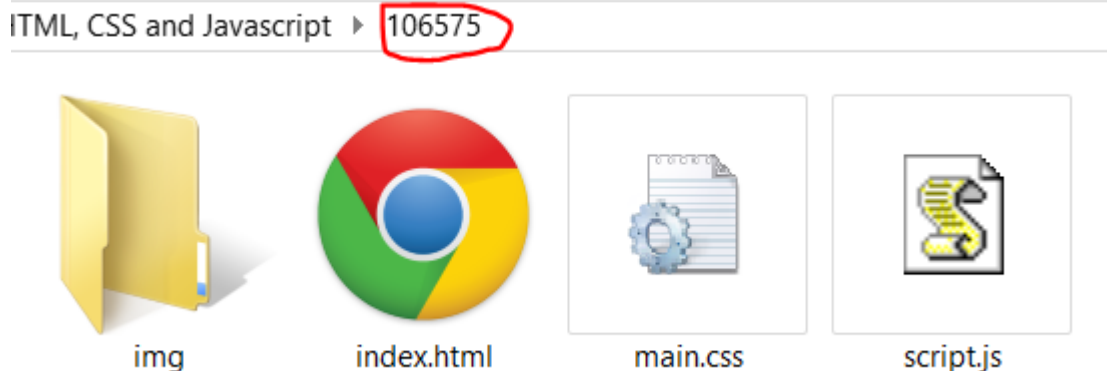
*Keep in mind that when you will have to do a real website you will have to check for all the others browser also. Chrome – Firefox – Safari – IE 6/9/10*

## 2. How to submit your project?

You will have to work by group of 1 or 2 (up to you). NO GROUP OF 3 !

Of course if you're 2 students working on the project, I will expect a little more than if you were alone.

You will have 3 files: index.html, main.css, script.js (and optionally some pictures organized in a sub-folder). All of that will be in a folder named "your campus ID" (for example 106575/)



And you will send me by email your project as a ZIP file (one archive) of this folder.

Here are all the information you could need for the email:

**To :** [106575@supinfo.com](mailto:106575@supinfo.com) // (it's me ☺)  
**CC :** The classmate who worked with you // in case you're working by group of 2  
**Subject :** [B1][1WEB] My project  
**Attachment :** YOUR\_ID.zip // in my case 106575.zip

**Body :**

In the body of the mail, I want to have the list of the students who worked on this project Name and ID.

**DEADLINE: SUNDAY 21th, April 10, 2013 23h59 (11h59 PM)**

All the email I will get after that, will result as a 0.

You have a lot of time to do this project (since you know the love meter is part of the project since almost 3 weeks), so I expect you to send me a good quality project, you have time to do some research to do it correctly.

About the JavaScript file, I want you to comment properly your code (in English).

That means if you ask your mom to read your JavaScript code, she should be able to understand it just by reading the comments, even if she doesn't know anything about computer science.

If you don't respect any of these rules, you will have negative point.