

# Jmatch Sort

## JMS v 2.1 and JMSV v 2.1

### (for Hot Potatoes v7)

*In memory of Glenys Hanson*

The examples in this tutorial are for version 2.0.1.  
You can easily adapt them for other versions (2.0.2, 2.1 etc.)

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## I What is a JMS exercise?

It's a categorisation exercise using **drag&drop format** in which you can drag and drop items into category boxes.

Retour

### JMatch Sort for HP v7

(Italie et Taj Mahal are distractors)

Placer les éléments du bas dans leurs catégories.

Valider

Italie

Angleterre

France

Big Ben

Tour Eiffel

Boeuf bourguignon

Apple pie

Taj Mahal

Claude Monet

York

Paris

Le Louvre

Retour

## II What is a JMSV exercise?

JMSV is similar to JMS but the categories are displayed in a vertical arrangement.

vertical JMatch Sort for HP7

Drag the items below and drop them in their category.

Check

Plato (427 BC - 347 BC)  
in *The Republic*

Friedrich Nietzsche (1844 - 1900)  
in *Thus Spoke Zarathustra*

Man is something that shall be overcome... Man is a rope, tied between beast and overman -- a rope over an abyss... What is great in man is that he is a bridge and not an end.

But the worst enemy you can meet will always be yourself; you lie in wait for yourself in caverns and forests. Lonely one, you are going the way to yourself! And your way goes past yourself, and past your seven devils!

Become who you are!

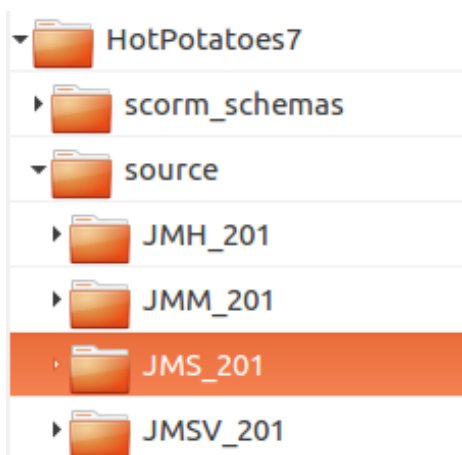
I have hardly ever known a mathematician who was capable of reasoning.

The people have always some champion whom they set over them and nurse into greatness...This and no other is the root from which a tyrant springs; when he first appears he is a protector.

This tutorial is written for JMS but you can easily adapt it for JMSV.

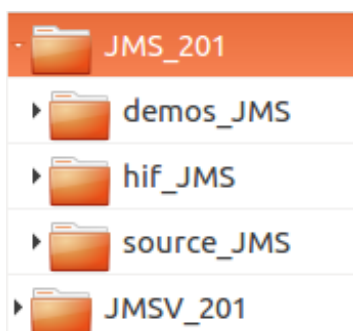
## III How to install JMS?

**Unzip** JMS\_201.zip and **copy the JMS\_201 folder** where you want, for example in the source folder of Hot Potatoes:



Note : you can copy the folder anywhere on your hard disk and rename it as you like.

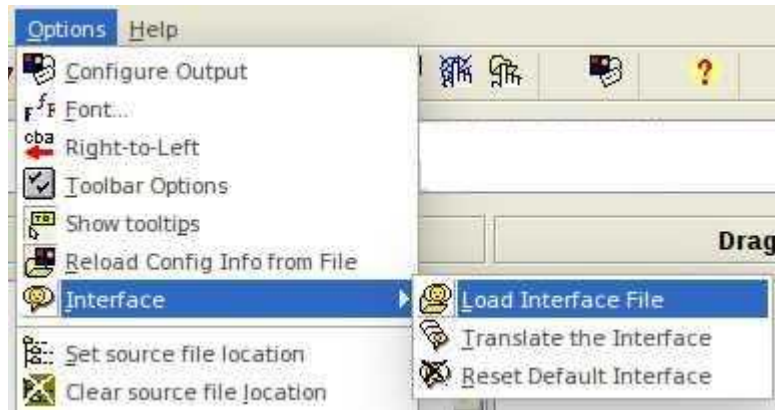
Check that the demos, hif and source folders are present:



## IV How to load the interface file

You don't necessarily have to do it but if you load the interface file associated with JmatchSort it will be easier for you to create your exercise and change the configuration output.

Open JMatch. Click on **Options->Interface->Load interface file**.



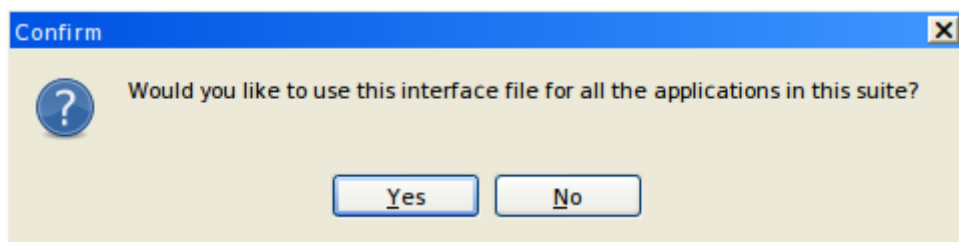
Browse to the folder `JMS_201/hif_JMS/` and choose the **JMS\_201\_en.hif** (or `JMS_201_fr.hif` or `JMS_201_de.hif`) file.



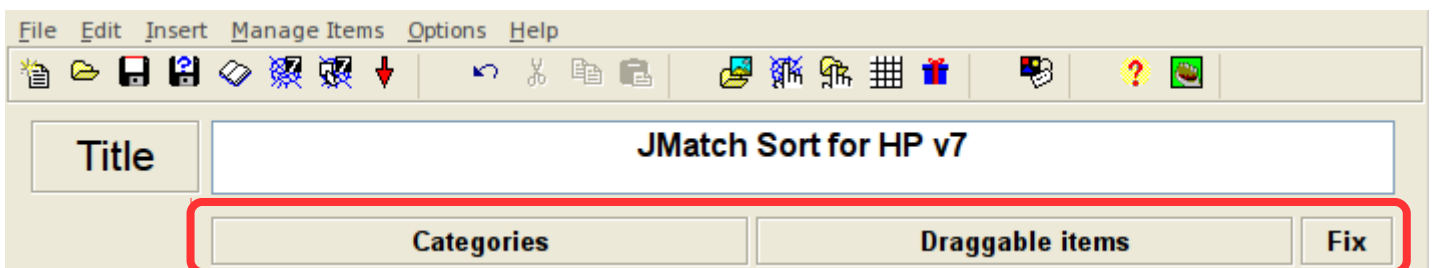
In the `JMS_201/hif_JMS` folder you will not find all the existing hif. You will find them, if they exist, on the [hpaddons site](#).

You can add the translation in your language, if it does not exist, on the [Paolo Cutini's site](#) or contact me on the [hotpotatoesusers Yahoo group](#) (you need to [subscribe](#))

A dialogue box will ask you if you would like to change the interface for all applications. Choose **No**.



You will immediately notice the change:



Other changes can be seen in Options>Configuration output.

## V How to create a JMS exercise?

### 1- Start Jmatch.

On the left are the **Categories**, on the right are the **Draggable items**.

You must associate each item with its category. For example, if you want three categories with two items in the first two categories and three in the last one:

Category 1 - Item 1A

Category 1 - Item 1B

Category 2 - Item 2A

Category 2 - Item 2B

Category 3 - Item 3A

Category 3 - Item 3B

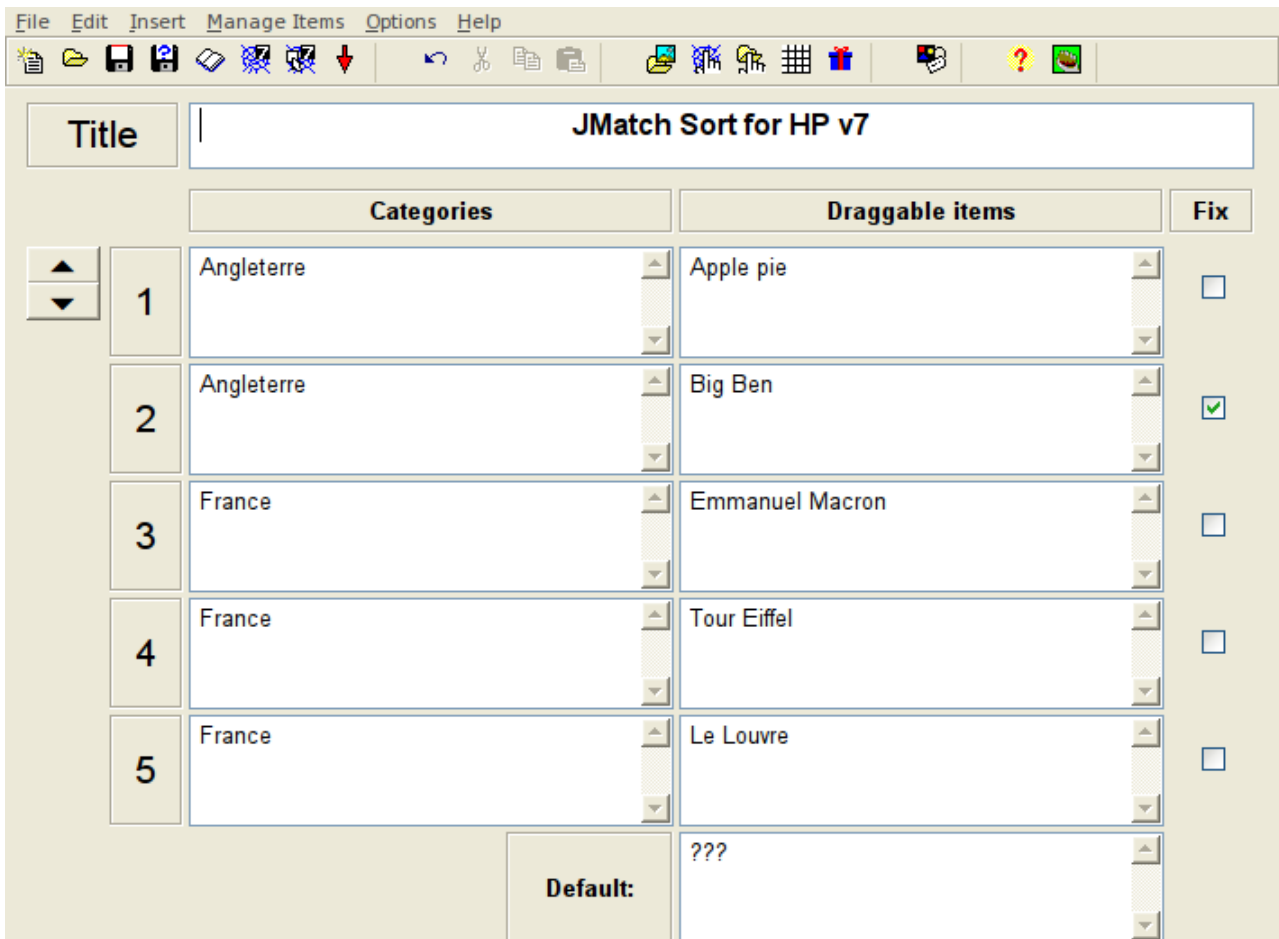
Category 3 - Item 3C

#### Notes:

- The order of the pairs {Category/Draggable item} does not matter.
- The name of a category must be written in the exactly same way. (Birds, BIRDS and birds will make three different categories!)

If your category names are complex (including code for images or audio files) use Copy-Paste to be sure they are all identical.

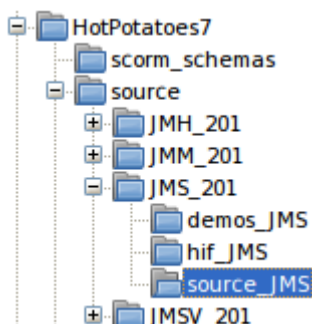
Your JMatch will look something like this:



2- Now it's time to tell JMatch that instead of using the original source files, **the special source files have to be used.**

Press the **Shift + Control + ALT + S** keys **simultaneously** or the appropriate file menu item (Options>Set source file location  ).

Choose the special source folder where the needed file(s) are located:




You will see which source folder is in use:



*Be aware that the next time the JMatch program is loaded, it will use this special source files folder.*

*If you want to create another exercise with the original Jmatch, press the Shift + Control + ALT + T keys simultaneously.*

*If you want to create another type of JMatch exercise (using another add-on), press the Shift + Control + ALT + S keys simultaneously and choose the adequate source folder.*

3- Create your web-exercise using **CTRL + F6** or the appropriate file menu item 

## VI Configuration

In the interface, some options have been added or modified. The other ones are left unchanged. If you have loaded the interface file (page4) it will be easier to change the configuration output.

### 1- How to add extra height to category boxes?

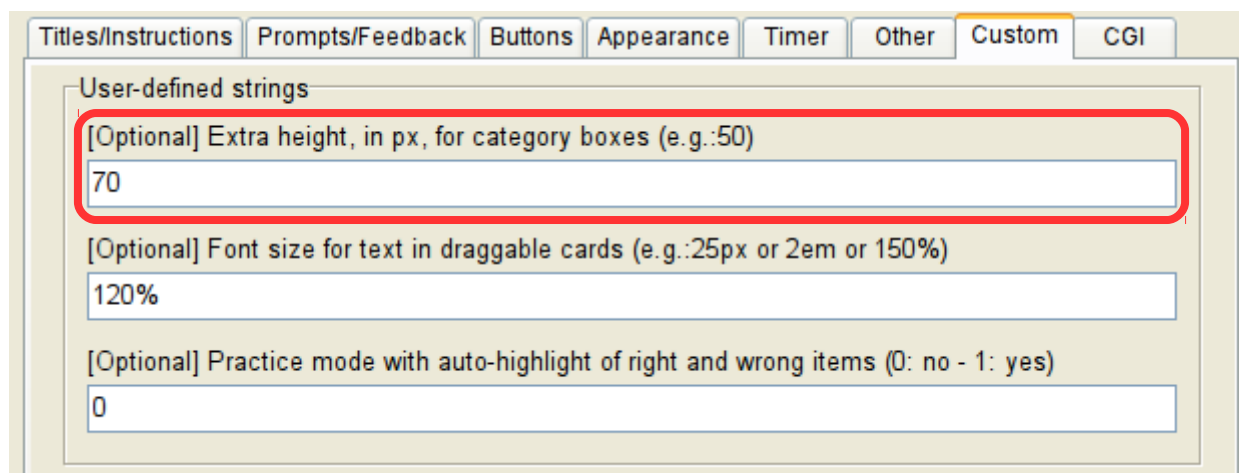
By default, the category boxes height is calculated to host all the rightly positioned items.

It's a hint for the student and sometimes, especially with images, it is a significant help and the display can be ugly:



To avoid this you can add some extra height to the category boxes.

**Options>Configuration output>Custom:**

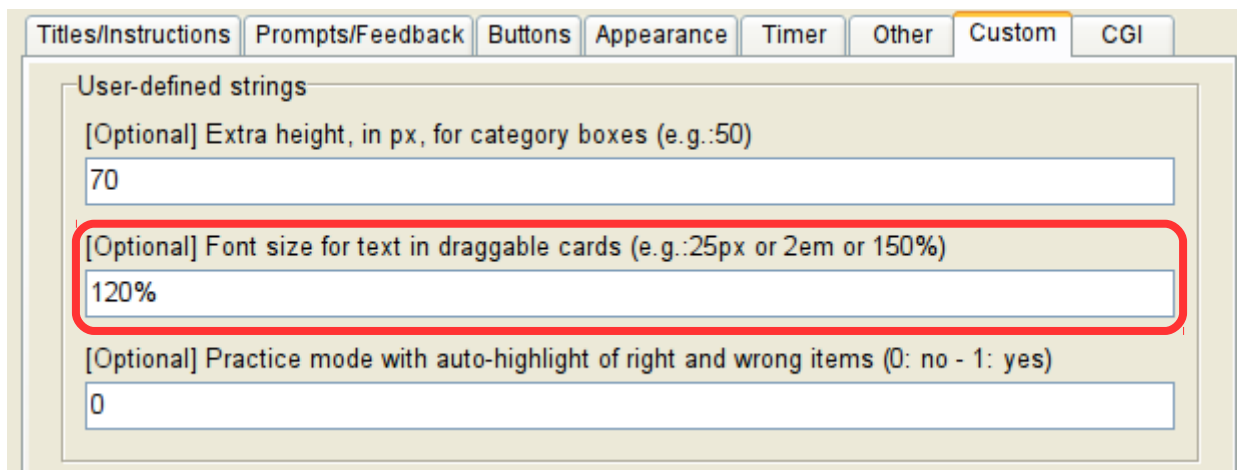


| Titles/Instructions  | Prompts/Feedback | Buttons | Appearance | Timer | Other | Custom | CGI |
|--|------------------|---------|------------|-------|-------|--------|-----|
| User-defined strings   |                  |         |            |       |       |        |     |
| [Optional] Extra height, in px, for category boxes (e.g.:50)                           |                  |         |            |       |       |        |     |
| 70   |                  |         |            |       |       |        |     |
| [Optional] Font size for text in draggable cards (e.g.:25px or 2em or 150%)            |                  |         |            |       |       |        |     |
| 120%   |                  |         |            |       |       |        |     |
| [Optional] Practice mode with auto-highlight of right and wrong items (0: no - 1: yes) |                  |         |            |       |       |        |     |
| 0  |                  |         |            |       |       |        |     |

- For example, if you want a value of 70px, don't type "70px" but type "70".
- If you keep the box empty, the value will be 0.

## 2- How to use a different font size for text in draggable items?

Options>Configuration output>Custom:



Titles/Instructions Prompts/Feedback Buttons Appearance Timer Other Custom CGI

User-defined strings

[Optional] Extra height, in px, for category boxes (e.g.:50)  
70

[Optional] Font size for text in draggable cards (e.g.:25px or 2em or 150%)  
120%

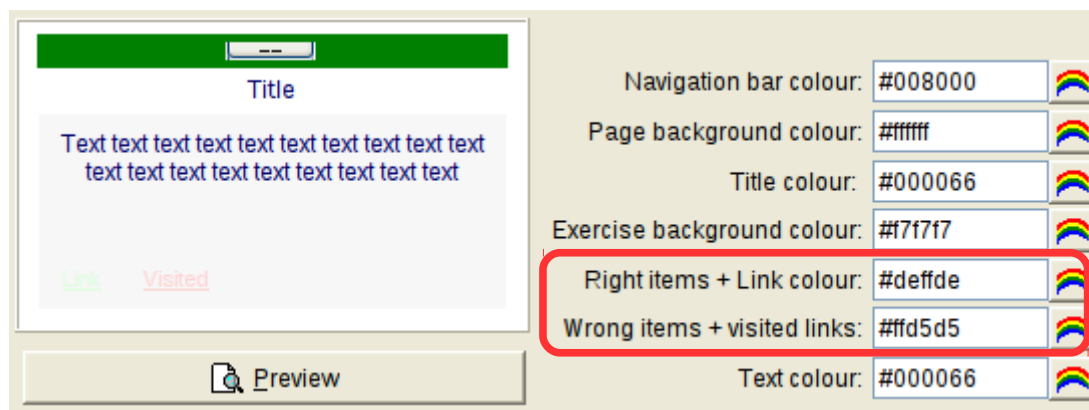
[Optional] Practice mode with auto-highlight of right and wrong items (0: no - 1: yes)  
0

- You need to **specify the unit** (px, em or %). For example, if you want a value in px, type "100px", don't type "100".
- If you keep the box empty the default font size will be the one defined in hp7.cs\_ (search for div.DcardStyle).

## 3- How to choose the colors for wrongly and rightly positioned items?

The colors are the same as the links and visited links colors.

Options>Configuration output>Appearance:



Navigation bar colour: #008000

Page background colour: #ffffff

Title colour: #000066

Exercise background colour: #f7f7f7

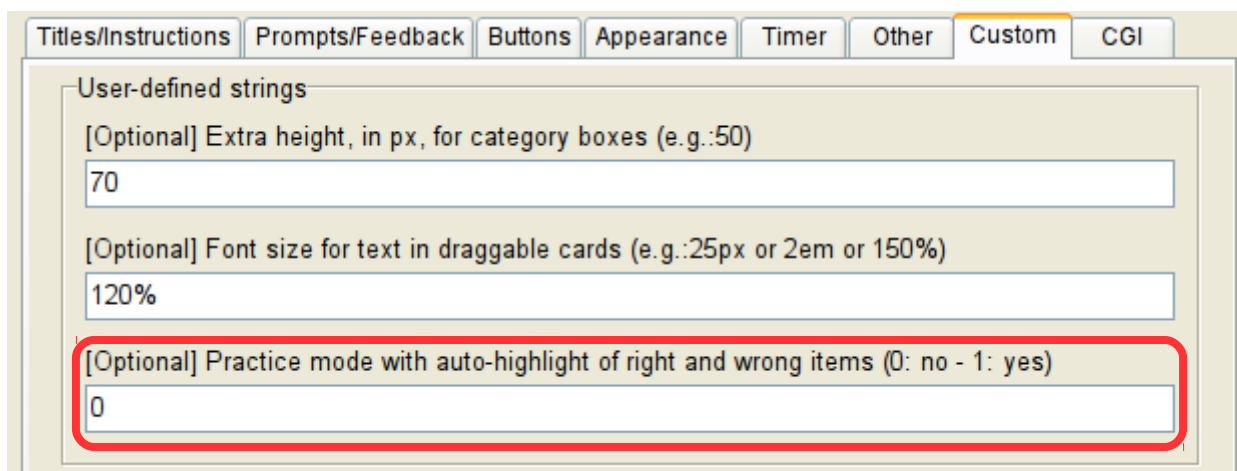
Right items + Link colour: #deffde

Wrong items + visited links: #ffd5d5

Text colour: #000066

Preview

## 4- How to enable Practice mode and Test mode



Titles/Instructions Prompts/Feedback Buttons Appearance Timer Other Custom CGI

User-defined strings

[Optional] Extra height, in px, for category boxes (e.g.:50)  
70

[Optional] Font size for text in draggable cards (e.g.:25px or 2em or 150%)  
120%

[Optional] Practice mode with auto-highlight of right and wrong items (0: no - 1: yes)  
0



- Type "1" to enable the **Practice mode**: in Practice mode the items are automatically highlighted as soon as they are dropped, using the defined colors (see 3-)

| Belgique             | Angleterre      | France            |
|----------------------|-----------------|-------------------|
| Manneken Pis (green) | Londres (green) | Foie gras (green) |
| Apple pie (pink)     |                 | Bruxelles (pink)  |
|                      |                 |                   |
|                      |                 |                   |
| Le Louvre            | Albert II       |                   |

- If **empty** or if you type "0" the default mode is **Test mode**. Answers will be highlighted after validation.

Valider

Votre score : 57%.  
Sorry! Try again.

OK

| Angleterre        | Belgique             |
|-------------------|----------------------|
| Londres (white)   | Manneken Pis (white) |
| Albert II (white) | Bruxelles (white)    |
|                   | Apple pie (white)    |
|                   |                      |
|                   |                      |
|                   | Foie gras (white)    |

## 5- How to define the width of the reading text container?

If you use a reading text (it's now available with JMatch drag and drop, thanks to Martin) you can easily choose the width of the reading text container.

**Options>Configuration output>Custom:**

```
Code for insertion into <head> tag

<style>
div.ReadingContainer{flex-grow: 20;}
div.ExerciseContainer{flex-grow: 80;}
</style>
```

The logic is:

- width of {ReadingContainer + ExerciseContainer}: 20 + 80 =100
- width of ReadingContainer: 20/100 (20%)
- width of ExerciseContainer: 80/100 (80%)

If you want the width of the reading text container to be 40% of the width of the page, use 40 for ReadingContainer and 60 (=100-40) for ExerciseContainer. So type:

```
<style>
div.ReadingContainer{flex-grow: 40;}
div.ExerciseContainer{flex-grow: 60;}
</style>
```

```
Code for insertion into <head> tag

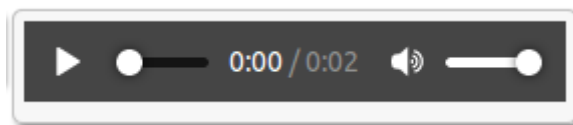
<style>
div.ReadingContainer{flex-grow: 40;}
div.ExerciseContainer{flex-grow: 60;}
</style>
```

If empty, the widths will be 50% for ReadingContainer and 50% for ExerciseContainer.

## VII- Other tips

### 1- Mini audio button

With Hot Potatoes v7, via "Insert> Insert a media object", you can insert a classic HTML5 audio player:



You can also use the HTML5 audio player button created for my Hot Potatoes add-ons:



See [audio\\_tutorial.pdf](#) in the tutorials folder that you got when you unzipped JMS\_201.zip.

Note : from version 2.1 the tutorial is called [audio\\_tutorial\\_4.pdf](#) (use of player4.js).

### 2- Settings for category titles

They are defined in `hp7.cs_`.

```
--strCatTitleBGColor: gold; /* for JMS and JMSV */  
--strCatTitleFontSize: 1.5em; /* for JMS and JMSV */  
--strCatTitleFontWeight: bold; /* for JMS and JMSV */
```

You can modify these values (you can find the names or the HTML hexadecimal codes for colours on [wikipedia](#) ).

**Don't forget to save the modified files.**

### 3- Settings for category boxes

The background color is defined in `hp7.cs_`.

```
--strCatBoxBGColor: [inclExBGColor] [strExBGColor]; [/inclExBGColor] /* for JMS and JMSV */
```

You can modify this value (you can find the names or the HTML hexadecimal codes for colours on [wikipedia](#) ).

For example if you want a grey background :

```
--strCatBoxBGColor: silver /* for JMS and JMSV */
```

**Don't forget to save the modified files.**

### 4- Spaces

They are defined at the beginning of the `djmatch7.js_` file.

```
// -----  
// variables : valeurs modifiables ; you can modify these variable values  
// -----  
// entre les cartes d'une ligne  
// between fixed cards on a row  
var spacerH = 10;
```

```

// entre cartes mobiles placées
// between dropped items
var spacerV_DRIC_DRIC = 5;

// entre le sommet de la carte fixe et la 1ere carte mobile placée
// between the top of the fixed card and the first dropped cards
var spacerV_FIC_DRIC1 = 5;

// entre le bas de la carte fixe et la 1ere ligne de cartes mobiles
// between the bottom of the fixed card and the first line of droppable
cards
var spacerV_FIC_RIC = 10;

// entre le div des boutons et les cartes fixes (1ère ligne)
// between the button div and the first cards
var spacerV_topButtonDiv_TIC = 10;

// entre les lignes des cartes mobiles à placer (si plusieurs lignes)
// between the lines of draggable items (if several lines)
var spacerV_RIC_RIC = 10;

// entre le bas de l'exercice ou du reading text et la barre de navigation
du bas
// between the lowest of exercice or reading text and the bottom navbar
var spacerV_bottomNavbar = 30;

// rab pour la hauteur des boites de catégories si non définie dans
[strUserDefined1]
// extra for the height of categories (if undefined in [strUserDefined1])
var rab_LIC_Std = 0;

```

You can change the values (10, 5 etc.).

**Don't forget to save the modified files.**

## 5- Modifications of hp7.cs\_ and djmatch7.ht\_

My modifications of the original hp7.cs\_ and djmatch7.ht\_ files are described at the beginning of these files.

So the users who would have modified the original hp7.cs\_ and djmatch7.ht\_ files can transpose my modifications in their own files.