

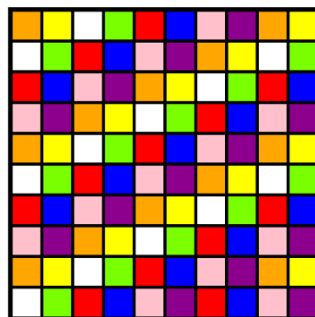
## WEB PROGRAMMING AND APPLICATIONS

(503073)

### WEEK 5

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**Exercise 1:** To do this exercise, follow these steps:



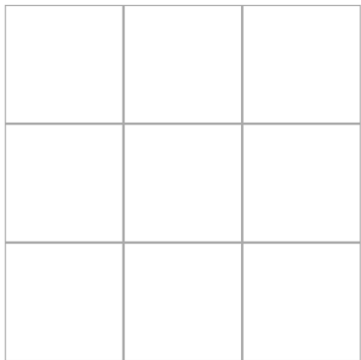
Background color has been changed. ✕

1. Design a color palette:
  - a. Use the `<div>` tag for the panel and for the cells inside it.
  - b. Set the width, height, and background color of the `<div>` tags.
2. Create the mouseenter event for the cells:
  - a. Use jquery to get the current cell's color value.
  - b. Change the background color of the page.
3. Create click events for cells:
  - a. Use jquery to get the current cell's color value.
  - b. Change the background color of the page.

What is the difference between step 2 and step 3? In step two, you only change the background color temporarily, after the user left the mouse out, the background color of the page will be restored as before.

**Exercise 3:** To do this exercise, follow these steps:

Xếp hình



Xếp hình



Congratulations! You have completed the puzzle game.

1. Design areas to contain the puzzle pieces. The first area is a 2x5 grid to store original pieces. The second area has a 3x3 grid to store the final result.  
Similar to the previous exercise, use the `<div>` tags associated with css to create border cells.
2. Load the image and show it to the first area, the order and the angle of the images are randomly selected.
3. Check out this link for how to use drag and drop in html 5.  
[https://www.w3schools.com/html/html5\\_draganddrop.asp](https://www.w3schools.com/html/html5_draganddrop.asp)
4. Use jquery to rotate puzzle pieces whenever they are clicked.
5. You also need to check to not allow drag and drop on the non empty box.

**Exercise 4:** To use the APIs, first you need to do some stuff. (see **Ex4 - How to setup server.mp4** for better understanding).

1. Unzip **API.zip** to the htdocs folder of your web server (eg. XAMPP)
2. Go to PhpMyAdmin, create new database named **students** and import the **student.sql** to the database.
3. Open connection.php and edit the information to suit your server: host, mysql username, mysql password, port...
4. Now using web browser to access this link to test the result: <http://localhost:8888/get-students.php> (remember to replace 8888 with your server port). If you see a json printed then you are ready to do the exercise.
5. See “HTTP Request” example video at “Video tutorials” for more information.