

# Review of HTML, CSS, and JavaScript

測驗, 10 個問題

7/10 分 (70%)

## ✖ 準備好後再次嘗試。

通過所需分數：80% 或更高

每隔 8 小時，您最多可以重新進行 3 次

此測驗。

[返回到第 4 週](#)[重新測試](#)

1 / 1 分

1。

What is the purpose of adding CSS to a web page?

- ☐ To put images on the web page
- ☐ To make the web page interactive
- ☐ To layout the web page
- ☒ To style the web page



正確



0 / 1 分

2。

Which of the following are examples of nesting? Select all that are correct.

- ☒ A list of lists



正確

A list inside another list is a nested list.

- ☐ A list inside a table



這個選項的答案不正確

This demonstrates the principle of composition but not nesting. Watch the video "HTML Lists and Tables: Organizing Information" in Week 1 to review nesting and composition.

- ☒ An image



未選擇的是正確的

- ☐ A for loop inside a for loop

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正確

7/10 分 (70%)

A for loop inside another for loop is a nested for loop.



A table

未選擇的是正確的



1 / 1 分

3。

Consider the following HTML and CSS to make a web page.

HTML:

```
1 <head>
2 </head>
3 <title>Cities</title>
4 <body>
5 <p>
6 </p>
7 <p>
8   <ol>
9     <li class = oddNums>New York</li>
10     <ul>
11       <li>Empire State Building</li>
12       <li>Statue of Liberty</li>
13       <li>Times Square</li>
14     </ul>
15     <li>Los Angeles</li>
16     <li class = oddNums>Chicago</li>
17   </ol>
18 </p>
19 </body>
20
```

CSS:

```
1 body {
2   background-color : #567898;
3 }
4 oddNums {
5   color : purple;
6 }
```

Which of the following are errors in this code? Select all that are correct.



In the CSS there should be a dot before oddNums to indicate that it is a class.

正確

If you responded incorrectly, review Week 1.



The HTML is missing <html> tags.

正確

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☐ The <img> tag is missing the width attribute.



未選擇的是正確的

☐ The <title> tag should be inside the <head> tag.



正確

If you responded incorrectly, review Week 1.

☐ The property background-color is not the correct property to change the background of the page.



未選擇的是正確的

☐ The unordered list inside the ordered list should go inside the list element New York, not after it.



正確

If you responded incorrectly, review Week 1.

☐ There should not be semicolons at the ends of the statements in the CSS.



未選擇的是正確的



1 / 1 分

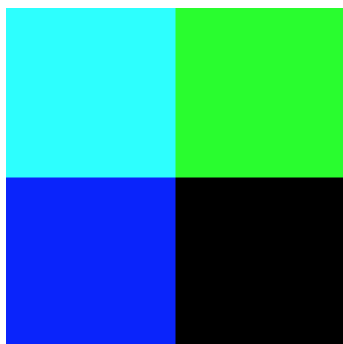
4 °

# Review of HTML, CSS, and JavaScript

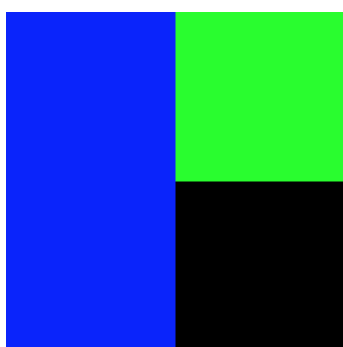
測驗, 10 個問題

Consider the following image in which the upper left quadrant is cyan, the upper right quadrant is green, the lower left quadrant is blue, and the lower right quadrant is black:

7/10 分 (70%)



Now consider the code that attempts to create that image but has a mistake, and instead produces this image, in which the upper left quadrant is blue instead of cyan:



Here is the code:

```
1 var img = new SimpleImage(200,200);
2 for (var px of img.values()){
3     var x = px.getX();
4     var y = px.getY();
5     if (x < img.getWidth()/2){
6         px.setBlue(255);
7     }
8     else {
9         if (y < img.getHeight()/2){
10            px.setGreen(255);
11        }
12    }
13 }
14 print (img);
15
```

Which of the following is the best explanation of why this code doesn't produce the first image?

- ☒ The code inside the else statement is only applied to pixels that did not satisfy the first if statement. So only pixels in the upper half of the image that are not also in the left half of the image are made green by the if statement inside the else statement.



正確

Correct!

- ☐ First the upper half of the image is made green, then when the left half is made blue it overwrites the green pixels and makes them blue.

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The if statement inside the else statement checks if pixels are in the upper half and the right half of the image, so only the upper right quadrant of the image is made green.

7/10 分 (70%)



1 / 1 分

5 °

Consider the following short program that defines a function to make an image darker by a certain amount and applies it to the image chapel.png.

```
1 function makeDarker(image,amount){
2     for (var px of image.values()){
3         px.setRed(px.getRed()-amount);
4         px.setGreen(px.getGreen()-amount);
5         px.setBlue(px.getBlue()-amount);
6     }
7 }
8 img = new SimpleImage("chapel.png");
9 img = makeDarker(50);
10 print(img);
11
```

Which of the following are errors in the program? Select all that are correct.



The function **makeDarker** is missing a return statement so there will be an error when the program assigns the return value of **makeDarker** to the variable **img**.



正確



The function **makeDarker** doesn't make an image darker, it makes an image gray, because it sets the red, green, and blue values to the same value.



未選擇的是正確的



The line `img = makeDarker(50);` is missing the **function** keyword.



未選擇的是正確的



The line that initializes the variable **img** is missing the keyword **var**.



正確

Refer back to the "Variables" video to review how to declare and initialize variables.



The call to **makeDarker** does not pass an image as an argument.



正確

The function **makeDarker** has two parameters but the call to **makeDarker** only has one argument instead of two.

1 / 1 分

## Review of HTML, CSS, and JavaScript

測驗, 10 個問題。

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Imagine you want to write a program to turn an image into a mirror image of itself. Which of the following would be the best approach to take?

- ☐ Write code to solve the problem, test and debug your program, improve your program by adding more features.
- ☐ Gather domain knowledge, work small examples by hand, write down what you did, look for patterns, translate your algorithm to code.
- ☒ Work small examples by hand, write down what you did, look for patterns, translate your algorithm to code, test and debug your program.

正確

Correct! This follows the seven step process.



1 / 1 分

7。

Consider the following JavaScript code.

```
1 var grayimage = null;
2 var image;
3 function loadImage(){
4     var ff = document.getElementById("fbutton");
5     gcanvas = document.getElementById("can");
6     doclear();
7     image = new SimpleImage(ff);
8     image.drawTo(can);
9 }
10 function makeGray(theImage) {
11     for (var pix of theImage.pixels()){
12         var total = pix.getGreen() + pix.getRed() + pix.getBlue();
13         var avg = total/3;
14         pix.setGreen(avg);
15         pix.setBlue(avg);
16         pix.setRed(avg);
17     }
18     return theImage;
19 }
```

Which of the variables are global variables? Select all that are correct.

☒ image

正確

If you responded incorrectly, refer to the video "Convert Image to Grayscale" in Week 3 to review global variables.

☐ theImage

未選擇的是正確的

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正確

If you responded incorrectly, refer to the video "Convert Image to Grayscale" in Week 3 to review global variables.

☐

ff



未選擇的是正確的

☐

avg



未選擇的是正確的

☐

pix



未選擇的是正確的



1 / 1 分

8 °

Which is the appropriate event handler to do something once a file has loaded?

☒

onchange



正確

☐

oninput

☐

onclick

☐

onmouseover



0 / 1 分

9 °

Consider the following code that calls the function filterGreen (code for this function not shown) to apply a green filter to the image greenImage.

```
1 function doGreen() {  
2   if (imageIsLoaded(greenImage)) {  
3     filterGreen();  
4   }  
5 }
```

What line needs to be added to this code to display the final image on the canvas? You can assume that there is a variable named **canvas** that can be used to reference the canvas.

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不正確回答

Remember to add the semicolon at the end of the line!

Show acceptable responses



0 / 1 分

10 °

Consider the examples you have seen of web pages that enable users to upload images and add filters to them. Which of the following describes what happens when the user clicks a button to add a filter to an image?

- ☐ The onclick event handler calls a function that applies the filter to the image, then the filtered image is drawn on the canvas.
- ☐ The onclick event handler calls the function that draws the image to the canvas, then the filter is added.
- ☒ The onclick event handler allows the user to choose an image to apply the filter to, then it calls a function that applies the filter to the image, and the filtered image is drawn on the canvas.

這個選項的答案不正確

The user must choose and upload an image to apply the filter to before clicking the button to apply the filter.

- ☐ The mouseover event handler calls the function that draws the image to the canvas, then the onclick event handler calls the function that applies the filter to the image.

