

MAD learn

Deconstructing <Code>
in a Flash(card)



< Introduction to HCJ Coding >



Code Set Source: https://codepen.io/gcarino/pen/LDgtn

Let's review what we know about these three sets of written code: HTML, CSS, and JavaScript (JS).

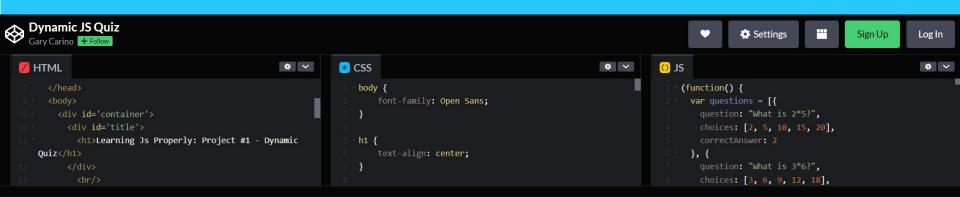
HTML (HyperText Markup Language) provides the basic content and structure of screens, which is enhanced and modified by other technologies like CSS and JavaScript.

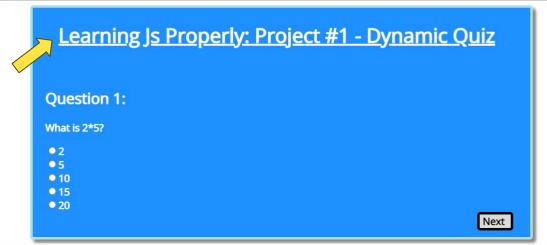
CSS (Cascading Style Sheet) is used to control presentation, formatting, and layout.

JavaScript is used to control the behavior of different elements and the interactions with the end user.

```
Dynamic JS Quiz
                                                                                                                                                   Settings 5
                                                                                                                                                                           Sign Up
                                                                                                                                                                                       Log In
                                                       # V
  M HTML
                                                                   * CSS
                                                                                                                                   () JS
                                                                                                                                       (function() {
                                                                       body {
                                                                           font-family: Open Sans:
                                                                                                                                         var questions = [{
                                                                                                                                           question: "What is 2*5?",
          <div id='container'>
            <div id='title'>
                                                                                                                                           choices: [2, 5, 10, 15, 20],
              <h1>Learning Js Properly: Project #1 - Dynamic
                                                                       h1 {
      Quiz</h1>
                                                                           text-align: center:
                                                                                                                                           question: "What is 3*6?",
                                                                                                                                           choices: [3, 6, 9, 12, 18],
```

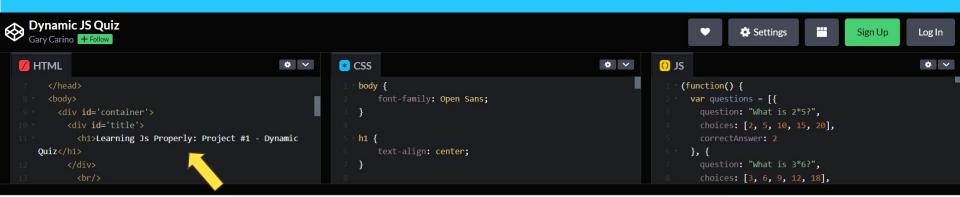
1. Within which language do you find the title for the quiz below?

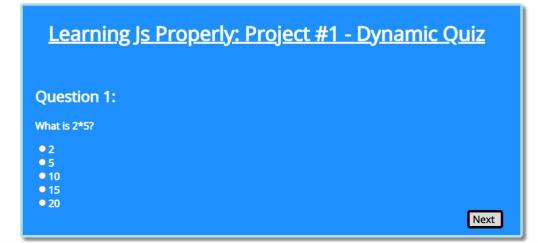






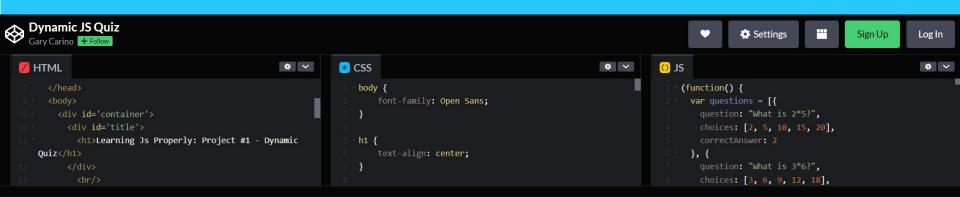
Answer: HTML √







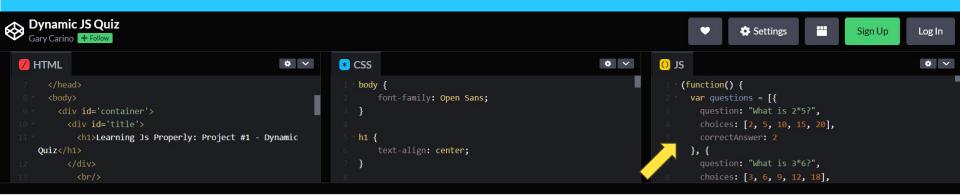
2. Within which language do you find the questions and answers?







Answer: JavaScript (JS) √







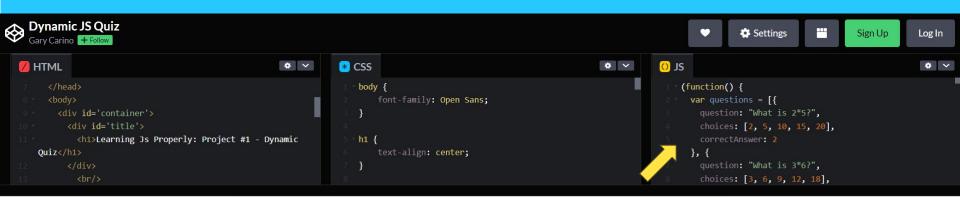
3. The actual answer to the first question is 10. Why does the JS code indicate 2 as correct?

```
Dynamic JS Quiz
                                                                                                                                                  Settings
                                                                                                                                                                         Sign Up
                                                                                                                                                                                     Log In
    Gary Carino + Follow
   M HTML
                                                       * ×
                                                                                                                      * ~
                                                                                                                                  O JS
                                                                                                                                                                                      * ~
                                                                  * CSS
                                                                                                                                      (function() {
                                                                      body {
                                                                          font-family: Open Sans:
                                                                                                                                        var questions = [{
          <div id='container'>
                                                                                                                                          question: "What is 2*5?",
            <div id='title'>
                                                                                                                                          choices: [2, 5, 10, 15, 20],
              <h1>Learning Js Properly: Project #1 - Dynamic
                                                                      h1 {
      Quiz</h1>
                                                                          text-align: center;
                                                                                                                                          question: "What is 3*6?",
                                                                                                                                          choices: [3, 6, 9, 12, 18],
```





Answer: 10 is the 3rd choice, BUT this author has designated the choices to be numbered 0-4, not 1-5!







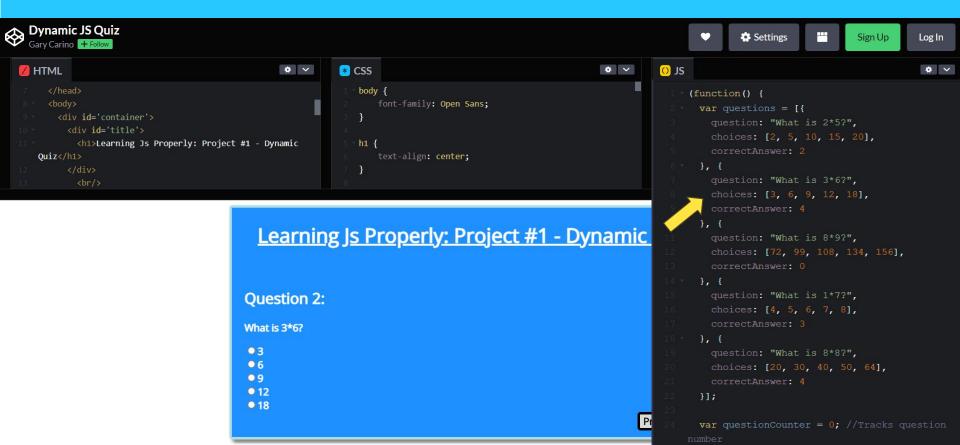
4. Based on #3, what will be the correct answer to the second question, shown below?

```
Dynamic JS Quiz
                                                                                                                                                  Settings
                                                                                                                                                                                      Log In
                                                                                                                                                                          Sign Up
    Gary Carino + Follow
   // HTML
                                                       * ×
                                                                  * CSS
                                                                                                                       * ×
                                                                                                                                  O JS
                                                                                                                                                                                       # V
                                                                                                                                       (function() {
                                                                      body {
                                                                          font-family: Open Sans:
                                                                                                                                        var questions = [{
                                                                                                                                          question: "What is 2*5?",
           <div id='container'>
            <div id='title'>
                                                                                                                                          choices: [2, 5, 10, 15, 20],
              <h1>Learning Js Properly: Project #1 - Dynamic
                                                                      h1 {
      Quiz</h1>
                                                                          text-align: center;
                                                                                                                                          question: "What is 3*6?",
                                                                                                                                          choices: [3, 6, 9, 12, 18],
```

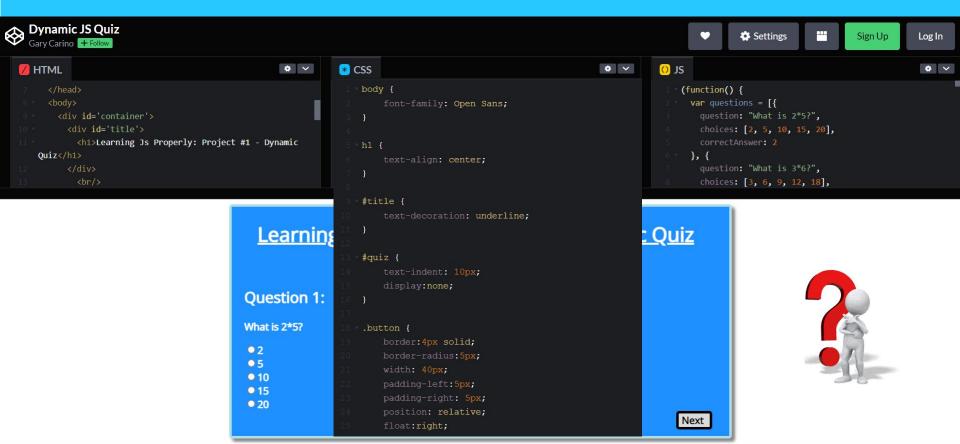




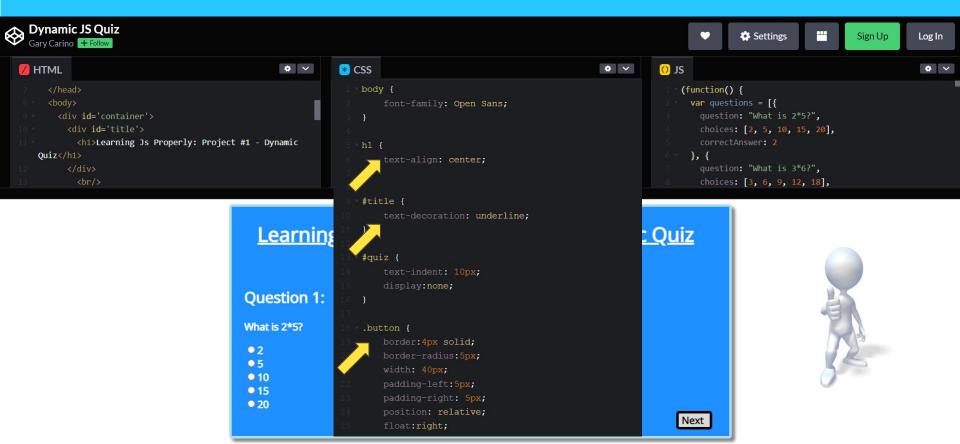
Answer: 4, because the correct answer is in the #4 slot (remember, the slots are designated 0-4).



5. What kinds of elements are controlled by the CSS code, based on what you see here?



Answer: Text and border styles and colors, button shapes and sizes, etc.



6. Predict which language will control the scoring, shown below.

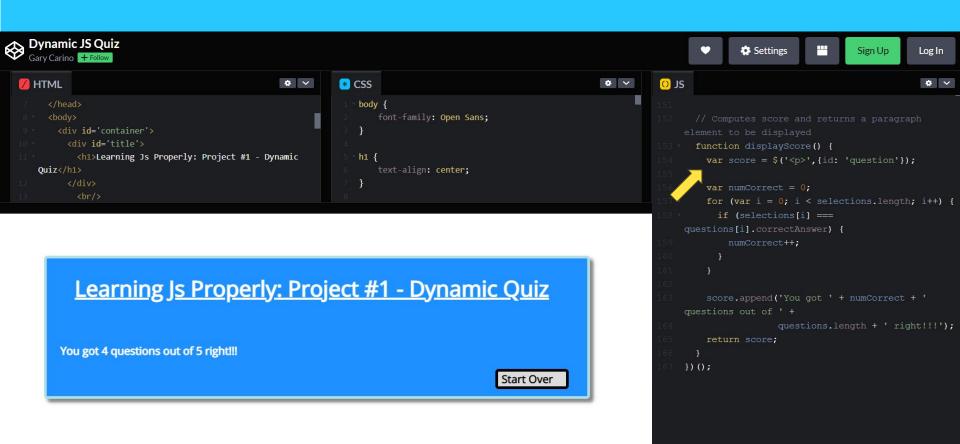
```
Dynamic JS Quiz

Gary Carino + Follow
                                                                                                                                                          Settings **
                                                                                                                                                                                   Sign Up
                                                                                                                                                                                               Log In
  // HTML
                                                         * ~
                                                                      * CSS
                                                                                                                             # V
                                                                                                                                         O JS
                                                                                                                                              (function() {
                                                                          body {
                                                                              font-family: Open Sans;
                                                                                                                                               var questions = [{
                                                                                                                                                 question: "What is 2*5?",
          <div id='container'>
            <div id='title'>
                                                                                                                                                 choices: [2, 5, 10, 15, 20],
              <h1>Learning Js Properly: Project #1 - Dynamic
                                                                          h1 {
      Ouiz</h1>
                                                                              text-align: center;
                                                                                                                                                 question: "What is 3*6?",
                                                                                                                                                 choices: [3, 6, 9, 12, 18],
```





Answer: As you can see, it is in JavaScript!



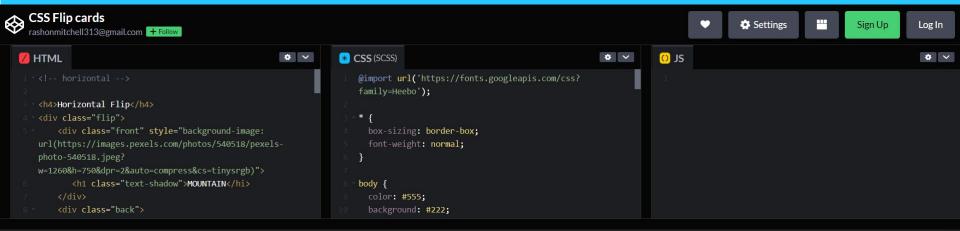
This is just a starting point! Here are the next steps...

- Explore open source code sets from places like <u>codepen.io</u>
- Look at the various tags and commands in this lesson, as well as other examples. We will look at other code sets and see how they can be altered to customize your screens!



Now Try Out What You've Learned..and Take it Further!

Go to https://tinyurl.com/2p88c3pk to display this sample screen:



Horizontal Flip



Explore the HTML code sets and try the following "hacks" for the First Card:

- Change the title of the card's front side to MAD-learn.
- Delete the heading on the first card's back side and add:
 MAD-learn brings app development to any classroom!
- Replace the image on the front side of the card with one you find online.
- Here's an example:



MAD-learn brings app development to any classroom!

Explore the CSS code sets and try the following "hacks" for the First Card:

- Change the background color of the card's back to (#005ECE) "dark blue".
- Change the opacity on the back of the card so that a faded image from the front side shows under the text (about 80%).
- Change the text color of the card's back to "white" (#FFFFFF).
- Take away the reflective shadowing of the letters on the front side of the card.
- Here's an example:





Further Exploration:

Explore a bit further and make at least one more change OR make similar changes to at least one more card!





