

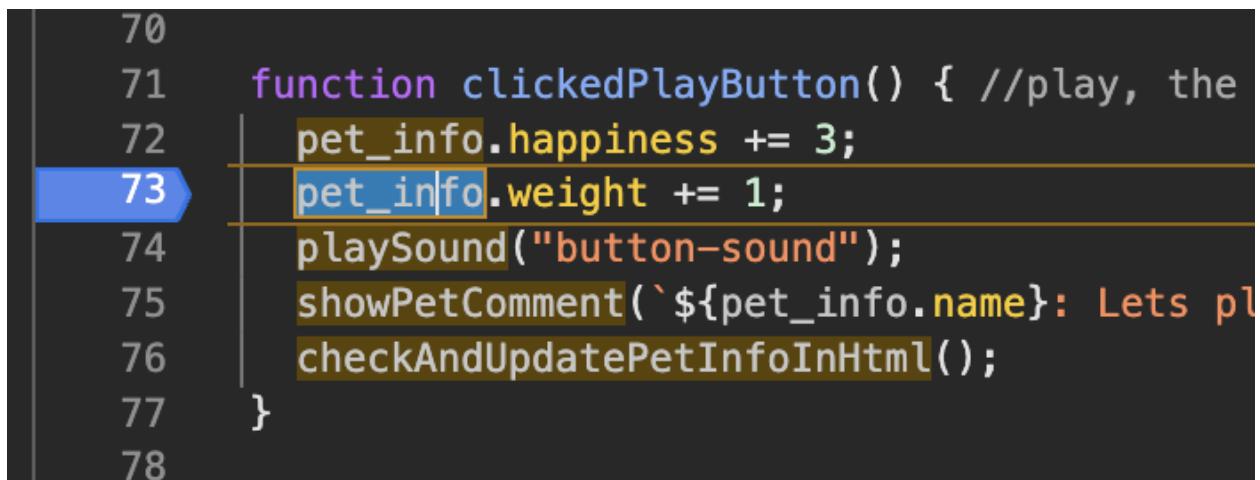
I first open the debugger by right clicking and pressing inspect. We then go to the sources tab to find the debugger. This allows us to set breakpoints and see how the code is executed and see any local variables, etc. Such as in the scope, we can see in the script tab, the array of the pets attributes.

The play button is not functioning correctly, we can debug it by creating a breakpoint to where we think the bug or mistake is. We can do this by also clicking on the Event Listener

Breakpoints tab and making it so that anytime we click, a breakpoint will happen and the code will be paused. So when we clicked the Play button, it paused the code to the breakpoint we set earlier.

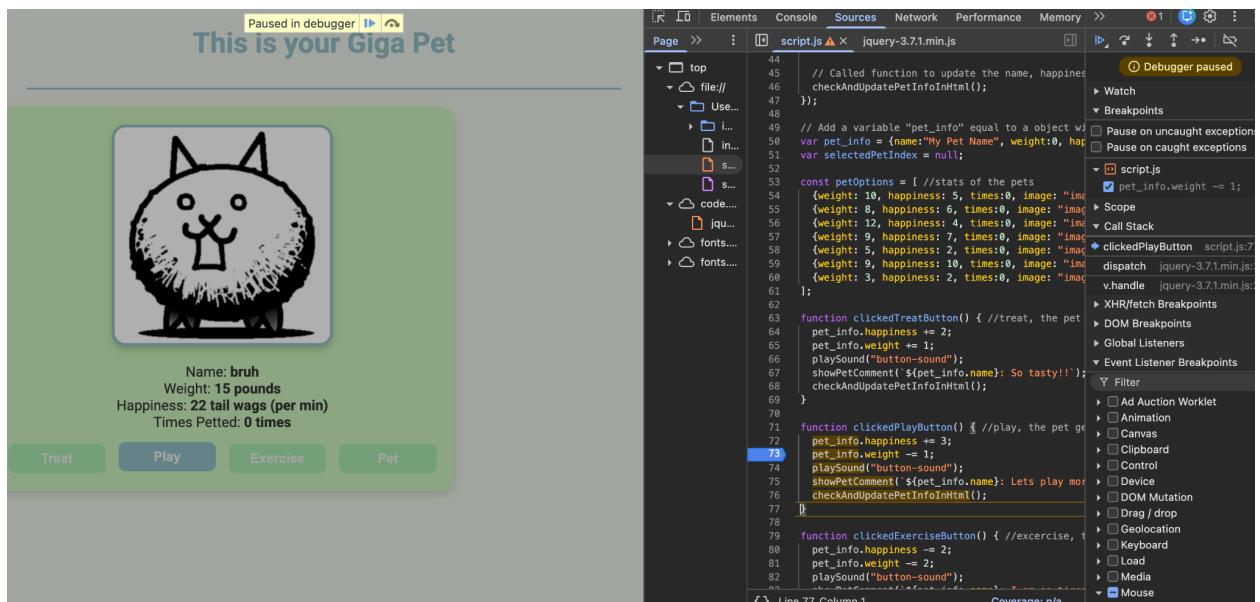
I stepped through the clickedPlayButton function until we got to the mistake.

`pet_info.weight += 1;` is set to `+=` instead of `=-`.



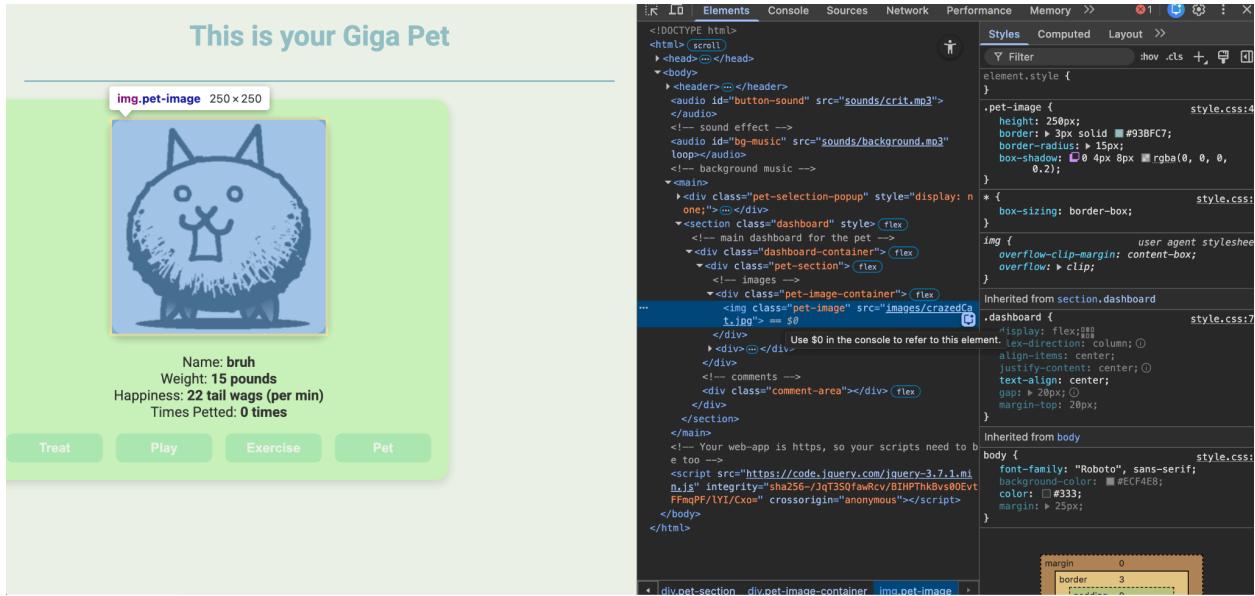
```
70
71     function clickedPlayButton() { //play, the
72         pet_info.happiness += 3;
73         pet_info.weight += 1; // This line has a breakpoint
74         playSound("button-sound");
75         showPetComment(` ${pet_info.name}: Lets pl
76         checkAndUpdatePetInfoInHtml();
77     }
78 }
```

We can fix this now and by changing the code right in the debugger and see if the next button press is fixed.

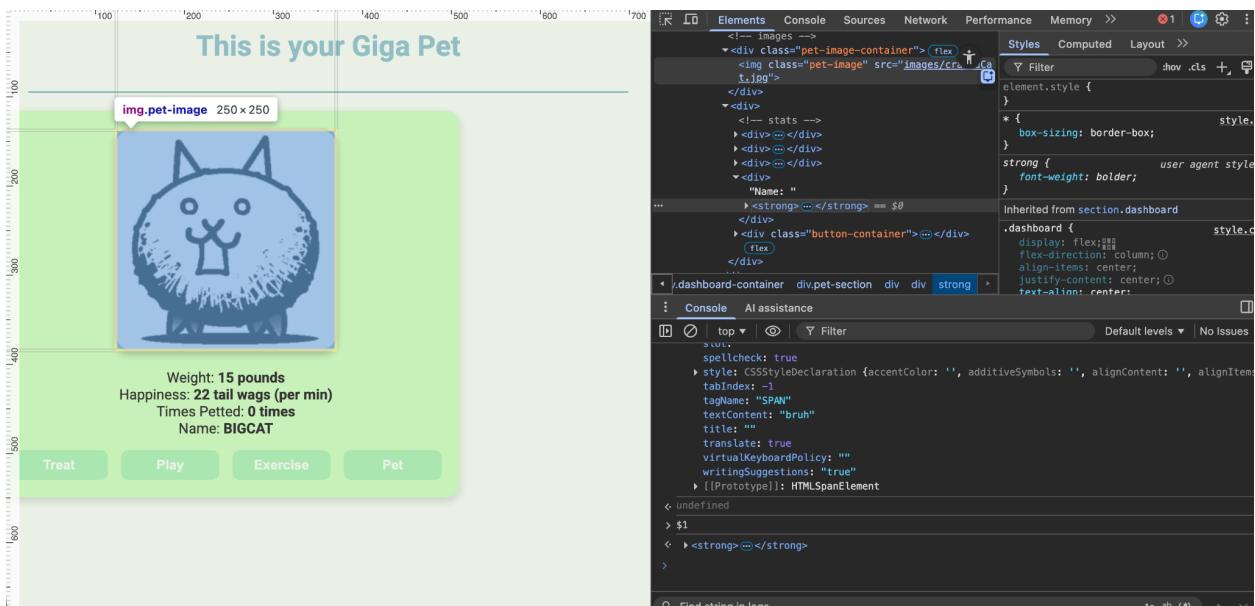


The screenshot shows a browser developer tools debugger interface. The main window displays a web page titled "This is your Giga Pet" featuring a cartoon cat named "bruh". Below the cat's image, its stats are listed: Name: bruh, Weight: 15 pounds, Happiness: 22 tail wags (per min), and Times Petted: 0 times. There are four buttons at the bottom: Treat, Play, Exercise, and Pet. The "Play" button is currently selected. The debugger sidebar shows the call stack and various breakpoints. A specific breakpoint is highlighted on line 73 of the script.js file, where the code reads `pet_info.weight += 1;`. The "Breakpoints" section in the sidebar indicates that this breakpoint is active and paused. Other breakpoints are also listed, such as one on `pet_info.weight -= 1;` and another on `checkAndUpdatePetInfoInHtml();`.

As we can see that the fix was good, and the weight of bruh was changed from 16 to 15 which is what is intended.



I inspected a node and it highlighted the image and showed the size of the image. `` It automatically highlights what your mouse hovers over to allow for you to get more information about the node. We are also able to navigate using a keyboard. This is done by using the arrow keys.



We can also enable rulers by going to Settings, Preferences, Elements, and clicking on Show rulers on hover. This helps us see the size of elements on the website.

This screenshot shows the 'This is your Giga Pet' website. The main content features a cartoon cat named 'bruh'. Below the image are its stats: Name: bruh, Weight: 15 pounds, Happiness: 22 tail wags (per min), and Times Petted: 0 times. At the bottom are four buttons: Treat, Play, Exercise, and Pet. The developer tools are open, specifically the Elements tab, which displays the HTML code for the page. A ruler overlay is visible over the pet image, showing dimensions of 300x54 pixels.

I can also search through the website by command + F to search through nodes to find what I am looking for such as the audio.

This screenshot shows the 'This is your Giga Pet' website with the developer tools open. The 'img.pet-image' element is selected, and its dimensions (250x250) are displayed in a tooltip above it. The developer tools Elements tab shows the HTML structure, and the selected element is highlighted in the list. The right panel shows the styles applied to this element.

I can also use \$0 to find the most recently selected element which was the image that I selected in the last picture.

```
> $0.textContent
```

```
< 'bruh'
```

```
> |
```

I can also use \$0.textContent to see information about the node. I chose the name of the cat and then typed in the console \$0.textContent. This returned ‘bruh’ as the name is written as bruh and was the last thing that I selected.

```
> dir($0)
```

```
VM1266:1
```

```
▼ span.name i
  accessKey: ""
  ariaActiveDescendantElement: null
  ariaAtomic: null
  ariaAutoComplete: null
  ariaBrailleLabel: null
  ariaBrailleRoleDescription: null
  ariaBusy: null
  ariaChecked: null
  ariaColCount: null
  ariaColIndex: null
  ariaColIndexText: null
  ariaColSpan: null
  ariaControlsElements: null
```

We can also use dir(\$0) to see the properties of the element which is in this case span.name.

This is useful for learning about the attributes of the element.

```
< undefined
```

```
> $1
```

```
< ▶ <strong>...</strong>
```

```
> |
```

\$1 is used to see the previous selected element. I used this in the console and got

```
<strong><span class="name">BIGCAT</span></strong>
```

The last thing we can do in the DOM tree is to edit the elements directly. What I did in this screenshot was rename bruh to BIGCAT and then I moved it down to the bottom where it is below Times Petted. We are also able to change attributes, delete elements, etc.

Weight: 15 pounds
Happiness: 22 tail wags (per min)
Times Petted: 0 times
Name: BIGCAT

hello guys

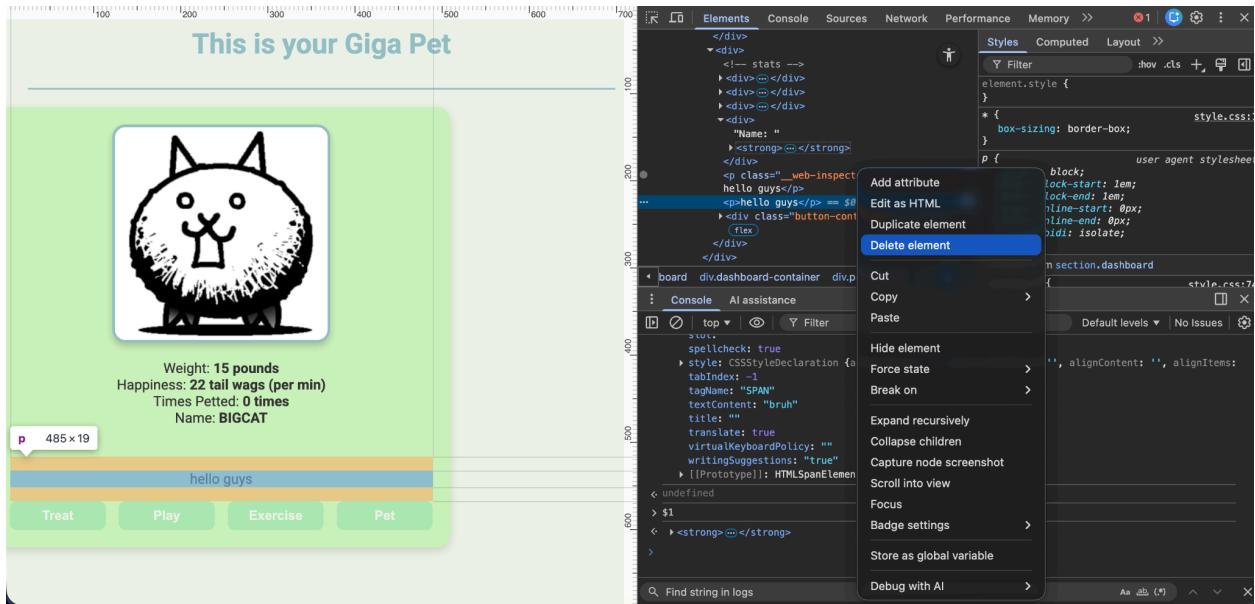
We can also edit HTML and add different line of text such as <p> hello guys </p>

Name: BIGCAT

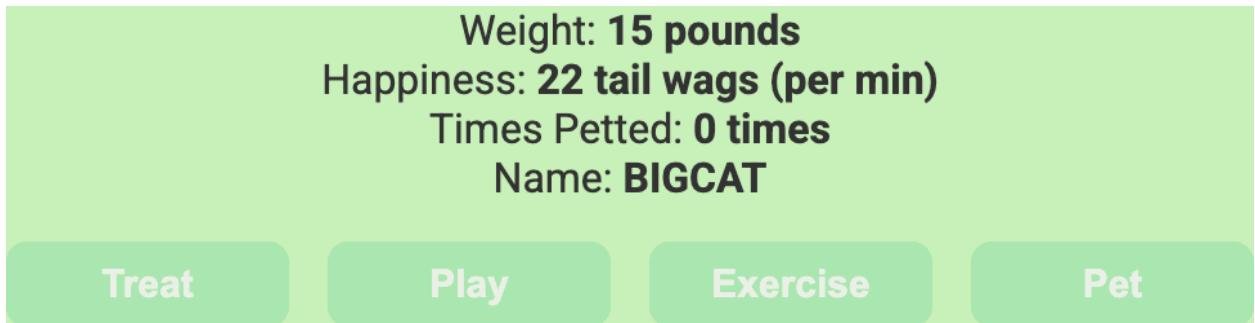
hello guys

hello guys

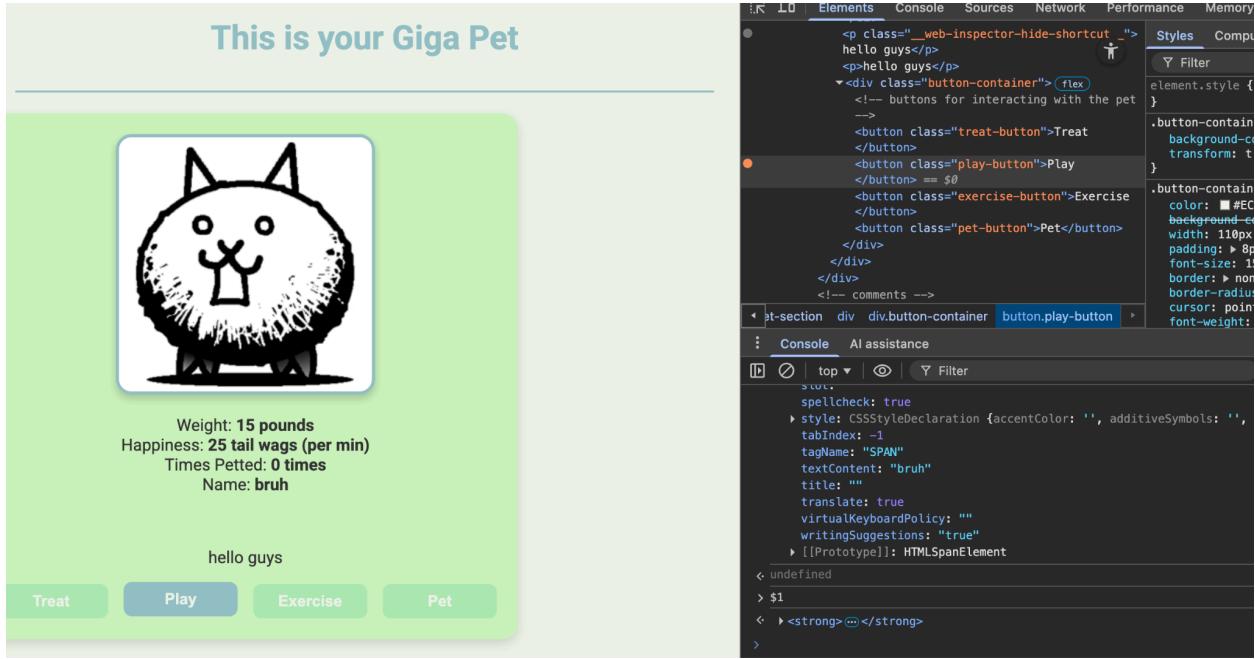
We can also duplicate by pressing Duplicate element



We can also hide or delete nodes.



We also have the ability to take screenshots of nodes directly from the DOM tree by right clicking and pressing on Capture node screenshot.



The image shows a screenshot of a web browser with the developer tools open. On the left, there is a user interface for a "Giga Pet" simulation. The interface features a large, fluffy black cat icon with a simple face. Below the icon, the text "This is your Giga Pet" is displayed. Underneath the cat, there are several status metrics: "Weight: 15 pounds", "Happiness: 25 tail wags (per min)", "Times Petted: 0 times", and "Name: bruh". At the bottom of the interface are four buttons labeled "Treat", "Play", "Exercise", and "Pet".

On the right side of the image, the browser's developer tools are visible. The "Elements" tab is selected, showing the DOM structure. A red dot highlights a button element with the class "play-button". The "Styles" panel shows the CSS for this button, including a background color of #E0F2F1, a width of 110px, and a font size of 16px. The "Console" tab at the bottom shows a few entries, including a call to '\$1' and a strong tag.

We can also force a state such as hover. I did it to the play button as shown here