

SIMPLIFYING JavaScript - BASICS OF jQuery



What is our GOAL for this MODULE?

We learned the difference between JavaScript and jQuery and created a simple application to learn about the basics of jQuery.

What did we ACHIEVE in the class TODAY?

- Understood the difference between JavaScript and jQuery.
- Learned the basics of jQuery.
- Created an online Mad Libs using jQuery.

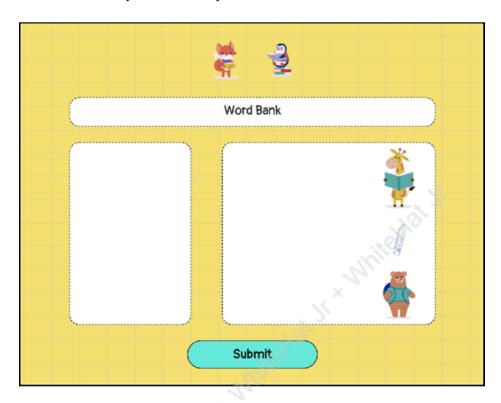
Which CONCEPTS/CODING BLOCKS did we cover today?

- jQuery val(), text(),attr(),html(),append(),remove() methods
- jQuery event listeners click and keyup



How did we DO the activities?

1. Clone the activity from Activity 1 and run the code.



2. Check out the libraries added in index.html.



```
<!-- Google Font -->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Pangolin&display=swap" rel="stylesheet">
```

3. Add a document ready event with a function displayStory(), which will show the text content of the story.

4. Observe the stories array in the boilerplate code with blanks for inputs created using tag.



5. Update the **displayStory()** function to use the html() method to set the story title and the story content and see the output.







- 6. Add **input boxes** for all the blanks(dashes) on the left side of the story content:
 - Loop for the number of inputs in a given story.
 - Define a **<input>** type variable and set class, id and placeholder attribute.
 - Set the HTML #input_field using jQuery append() method for all the boxes one after the other.

```
function displayStory() {

    //Get random story
    randomNumber=parseInt(Math.random() * stories.length)
    const story = stories[randomNumber];

    //Set the story title
    $("#story_title").html(story.title)

    //Set the story content
    $("#story_text").html(story.story)

//Make sure the input blanks(dashes) are empty when the story loads
$("#input_fields").empty();

//Set input boxes
for (let i = 0; i < story.inputs; i++) {

    let input_html = `<input type="text" class="input_field" id="input_${i}" placeholder="Input ${i + 1}"/>`
}
```

```
//Set input boxes
for (let i = 0; i < story.inputs; i++) {
    let input_html = `<input type="text" class="input_field" id="input_${i}" placeholder="Input ${i + 1}"/>`
    $("#input_fields").append(input_html)
}
```

- 7. Render words (for hints to fill in the blanks) that we have in our stories:
 - Loop for the **words** array in the story.
 - Define a **<button>** type variable and set class attribute.
 - Set the HTML **#bank_words** using **jQuery append()** method for all the words in the array one after the other.

```
$("#bank_words").empty();
for (let i = 0; i < story.words.length; i++) {
    let html = `<button class="word_bank_button">${story.words[i]}</button>`
    $("#bank_words").append(html)
}
```





8. Listen to a **keyup** event on all the input fields by creating a listener for keyup event.

```
$(function () {
    $(".input_field").keyup(function () {
        let id = $(this).attr("id");
        let input_number = id.split("_")[1]
    })
})
```

9. Update the HTML with the value of the input field.

```
$(function () {
    $(".input_field").keyup(function () {
        let id = $(this).attr("id");
        let input_number = id.split("_")[1]

    $(".rep_input").eq(input_number).html($(this).val());
})
```

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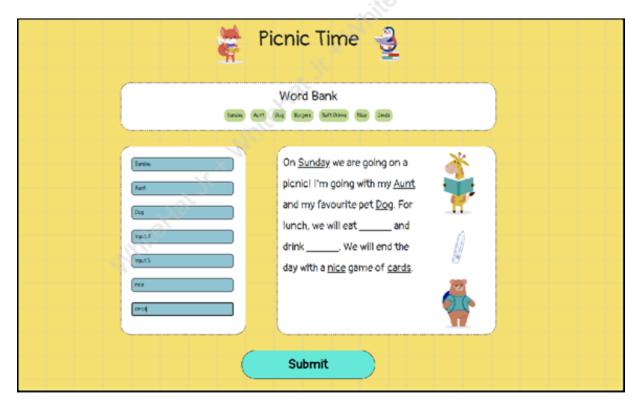
10. Add the **click** event on the button with id **#next_story** and call the displayStory() function inside this listener function.

```
$(function () {
    $(".input_field").keyup(function () {
        let id = $(this).attr("id");
        let input_number = id.split("_")[1]

    $(".rep_input").eq(input_number).html($(this).val());
    })

$("#next_story").click(function () {
        displayStory();
    })
})
```

11. Test the output by typing into different input fields and seeing how it is updating the blanks of the story in real time.



We learned to create a simple application to learn about the basics of jQuery.

PRO-C176



What's NEXT?

In the next class, we will learn about calling APIs using jQuery ajax() method.

EXTEND YOUR KNOWLEDGE:

- You can refer to the link below to explore more about AFrame A-Frame
- You can refer to the link below to explore more about jQuery
 jQuery