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JAVASCRIPT 101

TEXTINPUTS / TEXTAREAS

```html
<input type="text" name="myTextInput" class="jTextInput" value="Initial Value">
<textarea class="jTextArea" name="myTextArea">Initial Value</textarea>

<script>
    //Inhalte eines Textinput lesen
    var text_input =  document.querySelector('.jTextInput');
    var value_input = text_input.value;
    console.log(value_input); //Initial Value
    //Inhalt einen Textinputs schreiben
    text_input.value = 'My new value';

    //Inhalte einer Textarea lesen
    var text_area = document.querySelector('.jTextArea');
    var value_text_area = text_area.value;
    console.log(value_text_area); //Initial Value
    //Inhalt einen Textinputs schreiben
    text_area.value = 'My new value';
</script>
```

CHECKBOXEN

```html
<input type="checkbox" name="CheckboxA" value="A" class="jCheckboxA">
<input type="checkbox" name="CheckboxB" value="B" class="jCheckboxB" checked>

<script>
    //Referenzen
    var checkboxA = document.querySelector('.jCheckboxA');
    var checkboxB = document.querySelector('.jCheckboxB');
    //Read Values
    console.log(checkboxA.value); //A
    console.log(checkboxB.value); //B
    //auslesen ob das Häkchen gesetzt werden
    console.log(checkboxA.checked); //false
    console.log(checkboxB.checked); //true
    //checkboxen abwählen oder anhaken
    checkboxA.checked = true; //Häkchen setzen
    checkboxB.checked = false; //Häkchen entfernen
</script>
```

RADIOBUTTONS

```html
<input type="radio" value="X" class="jRadioX" name="XYZ">
<input type="radio" value="Y" class="jRadioY" name="XYZ" checked>
<input type="radio" value="Z" class="jRadioZ" name="XYZ">
<script>
    //Referenzen
    var radiobuttonX = document.querySelector('.jRadioX');
    var radiobuttonY = document.querySelector('.jRadioY');
    var radiobuttonZ = document.querySelector('.jRadioZ');
    //Read Values
    console.log(radiobuttonX.value); //X
    console.log(radiobuttonY.value); //Y
    console.log(radiobuttonZ.value); //Z
    //auslesen ob der Radiobutton ausgewählt ist
    console.log(radiobuttonX.checked); //false
    console.log(radiobuttonY.checked); //true
    console.log(radiobuttonZ.checked); //false
    //den value des ausgeählten RadioButtons ermitteln
    var selected_radio = document.querySelector('input[type="radio"][name="XYZ"]:checked');
    if(selected_radio) {
        console.log('Value: ' + selected_radio.value);
    } else {
        console.log('Kein Radiobutton ausgewählt');
    }
</script>
```

DROPDOWNS

```html
<select class="jDropdown">
    <option value="">-- bitte wählen --</option>
    <option value="A">Option A</option>
    <option value="B">Option B</option>
</select>
<script>
    //Referenz
    var dropdown = document.querySelector('.jDropdown');
    var slected_index = dropdown.selectedIndex;
    //get the selected value
    var selected_value = dropdown.value; //works in new browsers
    //selected_value = dropdown.options[selectedIndex].value; //works in old and new browser
    console.log(selected_value); //""
    var selected_text = dropdown.options[slected_index].text;
    console.log(selected_text);  //"-- bitte wählen --"
    //change selection
    dropdown.value = "A";
    console.log(dropdown.options[dropdown.selectedIndex].text); // Option A
    console.log(dropdown.value); // A
</script>
```

MULTISELECT

```html
<select class="jMultiple" multiple>
    <option value="A">Option A</option>
    <option value="B" selected>Option B</option>
    <option value="C">Option C</option>
    <option value="D" selected>Option D</option>
</select>

<script>
    //Referenz
    var multiple = document.querySelector('.jMultiple');
    //Output the values of all selected options
    var selected_options = multiple.selectedOptions;
    var selected_values = [];
    for(var i = 0; i < selected_options.length; i++) {
      selected_values.push(selected_options[i].value);
    }
    console.log(selected_values); //['B','D']
</script>
```

FILE INPUTS

```html
<input type="file" class="jFile">
<input type="file" class="jTextFile">
<script>
    var file_elm = document.querySelector('.jFile');
    file_elm.addEventListener('change', function() {
        console.log(file_elm.value); //z.B.: C:\fakepath\Image.jpg
        console.log(file_elm.files[0].name); //z.B.: Image.jpg
        console.log(file_elm.files[0].size); //z.B.: 1873587
        console.log(file_elm.files[0].type); //z.B.: image/png
    });

    document.querySelector('.jTextFile').addEventListener('change', function(e) {
        var reader = new FileReader();
        reader.onload = function(evt) {
            console.log(evt.target.result); //Gibt den Dateiinhalt aus
        };
        reader.readAsText(e.target.files[0]);
    });
</script>
```