Lesson 9

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What we learnt last time?

- How to move a block on the page without influencing a flow
- How to place blocks on top of the other blocks
- How to create static block which will remain on the same place during the scrolling
- Different ways of assigning colors in CSS
- Ways of making a color/block transparent



Our targets for today

- Why sprites are better than a lot of icons
- How to use sprites: background-position
- HTML-forms: types of inputs, required attributes



Sprites]

- → Sprite one big image that contains inside all the other small images from your page
- → Sprites are used for faster page loading
- → Usually one sprite contains all icons from a page
- → To create a sprite you must save all small images from psd and use sprite generator to create one big image
- → To show specific image from sprite you need to use "background-position"
- → We can change background-position with transition for animated hover effect



HTML Forms

→ The <form> element defines a form that is used to collect user input:

```
<form action="/action_page.php" method="get">
...
form elements
...
</form>
```

- → An HTML form contains form elements
 - Form elements are different types of input elements, like text fields, checkboxes, buttons, etc.
- → The action attribute defines the action to be performed when the form is submitted
 - → Normally, the form data is sent to a page on the server when the user clicks on the submit button
 - → The page contains a server-side script that handles the form data
 - → If the action attribute is omitted, the action is set to the current page



The method Attribute

→ The method attribute specifies the HTTP method (GET or POST) to be used when submitting the form data ______

<form action="/action_page.php" method="get">

- → GET appends form data into the URL in name/value pairs
 - Can be bookmarked
 - Limited in length
 - → Never use GET to send sensitive data! (will be visible in the URL)
- → POST places data in the body of the HTTP Request
 - Hidden from view
 - → Unlimited length

POST /folder/page.aspx HTTP/1.0

User-agent: Mozilla/4.0

Content-type: application/x-www-form-urlencoded

/action page.php?firstname=Mickey&lastname=Mouse

Content-length: 25

Name=Mickey&Address=Mou

se

→ If not specified, the default method is GET



The <input> Element

- → The most important form element is the <input> element
- → The <input> element can be displayed in several ways, depending on the type attribute

- → If the type attribute is omitted, the input field gets the default type: "text"
- → Each input field must have a name attribute to be submitted to the server
 - → If the name attribute is omitted, the data of that input field will not be sent at all



[HTML Input Attributes]

| Attribute | Meaning | |
|-----------|---|--|
| value | The initial value for an input field | |
| readonly | The input field cannot be changed | |
| disabled | The input field is disabled | |
| size | The size (in characters) for the input field | |
| maxlength | ngth The maximum allowed length for the input field | |

→ Example:

First name:<input type="text" name="firstName" maxlength="10" value="Roi">
 Last name:<input type="text" name="lastName" disabled />

| First name: | Roi |
|-------------|-----|
| Last name: | |



Input Type Password

→ <input type="password"> defines a password field:

```
<form>
    User name:<input type="text" name="username"/><br/>
    Password:<input type="password" name="password" /><br/>
</form>

User name: roi
    Password: ••••••
```

→ The characters in a password field are masked (shown as asterisks or circles)



The <textarea> Element

→ The <textarea> element defines a multi-line input field (a text area):

```
<textarea name="message" rows="5" cols="40">The cat was playing in the garden.
</textarea>
```

- → The rows attribute specifies the visible number of lines in a text area
- → The cols attribute specifies the visible width of a text area

```
The cat was playing in the garden.
```



Input Type Submit

- → <input type="submit"> defines a button for submitting the form data to a server page with a script for processing input data.
 - → The server page is specified in the form's action attribute

| Mickey | |
|------------|--|
| Last name: | |
| Mouse | |



Input Type Reset

→ <input type="reset"> defines a reset button that will reset all form values to their default values:

| <pre><form action="/action_page.php"> First name: </form></pre> |
|---|
| <input name="firstname" type="text" value="Mickey"/> |
| Last name: |
| <input name="lastname" type="text" value="Mouse"/> |
| <input type="submit" value="Submit"/> |
| <input type="reset"/> |
| |





Radio Buttons

- → <input type="radio"> defines a radio button
- → Radio buttons let a user select only one of a limited number of choices
- → All radio buttons that belong to the same group must have the same name

```
<form>
    <input type="radio" name="gender" value="male" checked/>Male
    <input type="radio" name="gender" value="female"/>Female
    <input type="radio" name="gender" value="other"/>Other
</form>
```

• Male Female Other



Checkboxes

- → <input type="checkbox"> defines a checkbox.
- → Checkboxes let a user select zero or more options of a limited number of choices

I have a car



The <select> Element

- → The <select> element defines a drop-down list
- → The <option> elements define options that can be selected



→ Use the size attribute to specify the number of visible values:

```
<select name="cars" size="3">
     <option value="volvo">Volvo</option>
     <option value="saab">Saab</option>
     <option value="fiat">Fiat</option>
     <option value="audi">Audi</option>
</select>
```





The <select> Element

- → Use the multiple attribute to allow the user to select more than one value
 - Hold down the Ctrl (windows) / Command (Mac) button to select multiple options



→ To define a pre-selected option, add the selected attribute to the option





The <button> Element

→ The <but>button> element defines a clickable button:

<button type="button" onclick="alert('Hello World!')">Click Me!</button>
Click Me!

- → There are 3 supported types for a button:
 - submit submits the form when clicked (default)
 - → button clickable, but without any event handler until one is assigned
 - reset resets the fields in the form when clicked
- → We'll learn how to handle input events in JavaScript later in the course



Grouping Form Data with <fieldset>

- → The <fieldset> element is used to group related data in a form
- → The <legend> element defines a caption for the <fieldset> element

```
<fieldset>
    <legend>Vehicles</legend>
    <input type="checkbox" name="vehicle1" value="Bike" />I have a bike<br />
    <input type="checkbox" name="vehicle2" value="Car" />I have a car
</fieldset>
```

| -Vehicles | | |
|----------------|----|--|
| ☐ I have a bil | ke | |
| ☐ I have a ca | r | |



[Exercise (1)]

→ Create the following form in HTML:

| Control Type | Data | Control |
|---------------------|-------------|-------------------------------|
| Text box | Name: | Enter name |
| Password | Password: | |
| Text area | Address: | Enter address |
| Drop down list | Area: | Center ▼ |
| Check box | Hobbies: | Sport Reading T.V. Internet |
| Radio Buttons | Gender: | Gender selection Male Female |
| File upload | Your image: | Choose File No file chosen |
| Buttons | Actions: | Submit Reset Button |



Control questions

- 1. Why do we use sprites instead of many small images?
- 2. What is the required attribute of <form> for a request to be correctly sent?
- 3. What is the default "display" property of form inputs?
- 4. Can we style a checkbox?

