HTML and CSS

Forms and Media Queries



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#QA-FrontEnd

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What is Responsive Web Design?



It is an approach to make web pages render well on all screen sizes and resolutions while ensuring

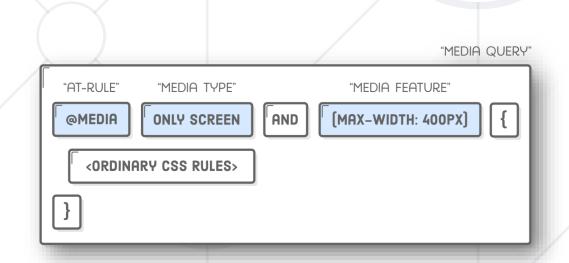


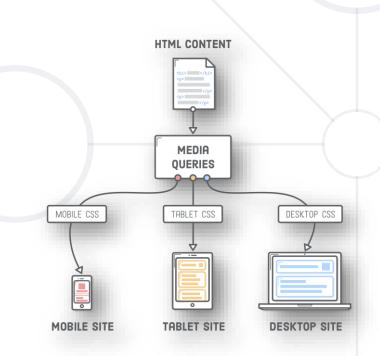


Media Queries



 Allow for running a series of tests (e.g., whether the user's screen is greater than a certain width, or a certain resolution) and apply CSS selectively to style the page appropriately for the user's needs





Media Queries Application



- Link element's media attribute
 - Define the media to which a linked resource (typically CSS) should be applied
- Source element's media attribute
 - Define the media to which that source should be applied
 - Valid only inside picture elements
- Style element's media attribute
 - Define the media to which the style should be applied

Media Types



- Describe the general category of a given device
 - Although websites are commonly designed with screens in mind, it may be needed to create styles that target special devices such as printers or audio-based screen readers

```
@media print { ... }
@media screen, print { ... }
```

Rules



- @import
 - Used to import style rules from other style sheets
 - These rules must precede all other types of rules, except
 @charset rules
 - It is not a nested statement
 - @import cannot be used inside conditional group at-rules

```
@import url('styles.css') screen;
```

Media Features



 Describe a specific characteristic of the user agent, output device, or environment

```
@media screen and (min-width: 600px) {
    ...
}
```

```
@media screen and (orientation: landscape) {
    ...
}
```

Media Features



- min-width
 - Specify a minimal width for the viewport in order to apply the rules included

```
@media screen and (max-width: 600px)
```

- max-width
 - Specify a maximum width for the viewport in order to apply the rules included

```
@media screen and (max-width: 600px)
```

Media Queries



orientation

Specify a device orientation for which it will apply the rules included

```
@media screen and (orientation: landscape)
```

hover | pointer

Check for a device ability for which it will apply the rules included

```
@media screen and (hover: hover)
@media screen and (pointer: fine)
```



- The logical operators not, and, and only can be used to compose a complex media query
- They can also combine multiple media queries into a single rule by separating them with commas (if more than two)

```
@media screen and (pointer: fine) {
   ...
}
```



and

- Used for combining multiple media features together into a single media query, requiring each chained feature to return true in order for the query to be true
- Also used for joining media features with media types

```
@media screen and (pointer: fine) {
   ...
}
```



- not
 - Used to negate a media query
 - If present in a comma-separated list of queries, it will only negate the specific query to which it is applied
 - If used, a media type must be specified, too

```
@media screen not (pointer: fine) {
   ...
}
```



only

- Used to apply a style only if an entire query matches and is useful for preventing older browsers from applying selected styles
- If used, a media type must be specified, too

```
@media only screen and (pointer: fine) {
   ...
}
```



- , (comma)
 - Used to combine multiple media queries into a single rule
 - Each query in a comma-separated list is treated separately from the others
 - If any of the queries in a list is true, the entire media statement returns true

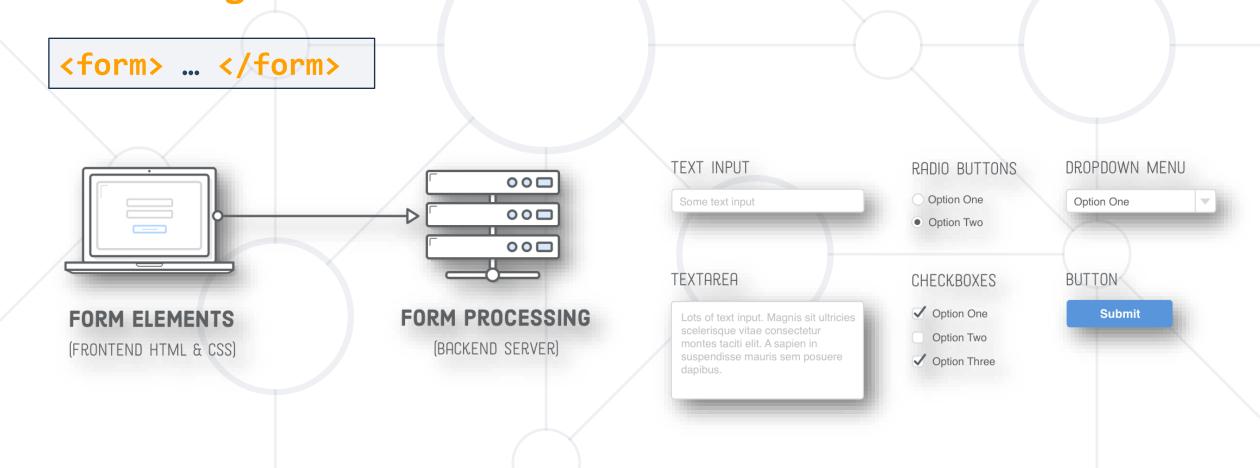
```
@media (min-height: 680px), only screen and (orientation: portrait) {
   ...
}
```



HTML Forms



 Represent a document section that contains interactive controls for submitting information to a web server

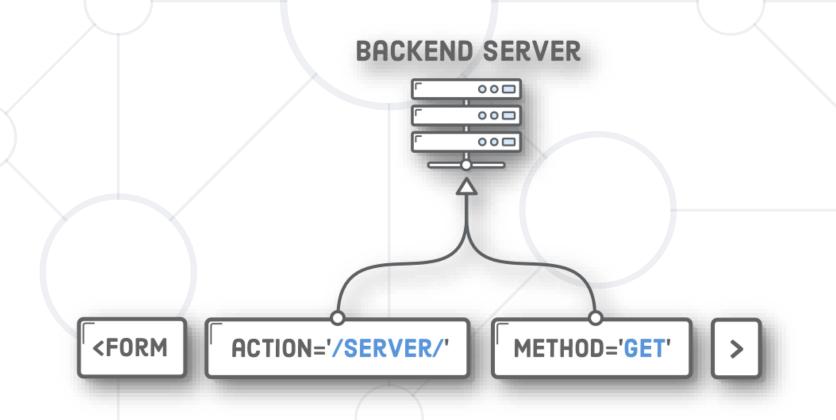


Attributes



method

Specify the HTTP method that the browser uses to submit the form



Method Types



Post

- Corresponds to the HTTP POST method
- Form data is included in the body of the form and sent to the server

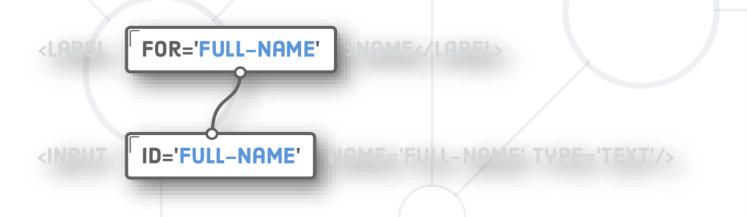
Get

- Corresponds to the HTTPGET method
- Form data is appended to the action attribute URI with a ? as separator
 - The resulting URI is sent to the server





- <label></label>
 - Represent a caption for an item in a user interface
 - The label text is not only visually associated with its corresponding text input
 - It is programmatically associated with it, too

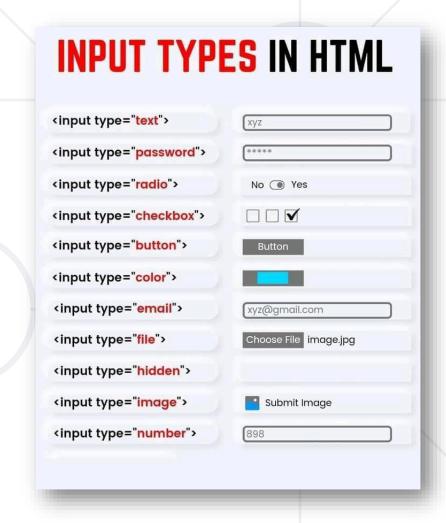


input email admin@jqueryscript.net	
input email placeholder Lorem ipsum dolor sit amet	
input email value Lorem ipsum dolor sit amet	



<input></input>

- Used to create interactive controls for web-based forms in order to accept data from the user
- A wide variety of types of input data and control widgets are available, depending on the device and user agent
- The <input> element is one of the most powerful and complex in all of HTML due to the sheer number of combinations of input types and attributes





- <textarea></textarea>
 - Represents a multi-line plain-text editing control
 - Useful when you want to allow users to enter a sizeable amount of free-form text





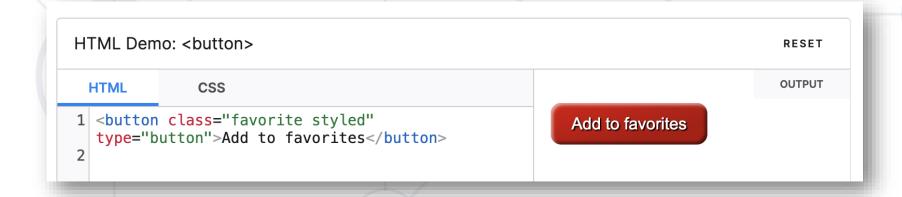
- <select></select> & <option></option>
 - The <select> HTML element represents a control that provides a menu of options
 - The <option> HTML element is used to define an item contained in a <select>, an <optgroup>, or a <datalist> element

```
HTML Demo: <select>
                                                                                 RESET
              CSS
                                                                                OUTPUT
                                                      Choose a pet:
 1 <label for="pet-select">Choose a pet:</label>
                                                        --Please choose an option--
3 <select name="pets" id="pet-select">
     <option value="">--Please choose an option--
     <option value="dog">Dog</option>
     <option value="cat">Cat</option>
     <option value="hamster">Hamster
     <option value="parrot">Parrot</option>
     <option value="spider">Spider</option>
     <option value="goldfish">Goldfish</option>
11 </select>
```

 Can represent menu items in popups and other lists of items in an HTML document

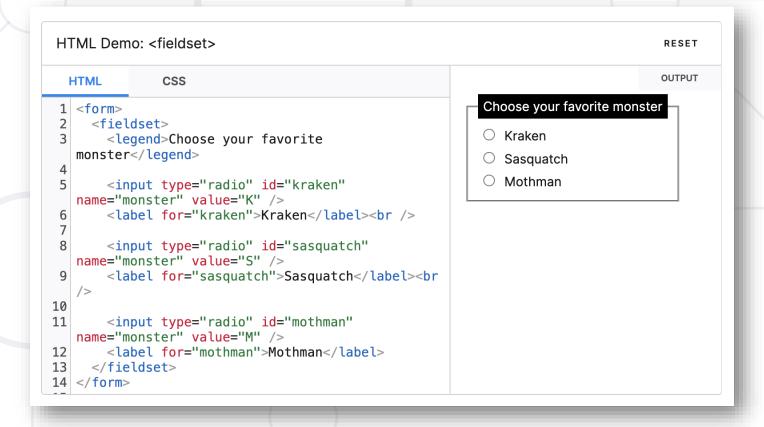


- <button></button>
 - Interactive element
 - Activated by a user with a mouse, keyboard, etc.
 - Once activated, it then performs an action, e.g., submitting a form or opening a dialog





- <fieldset></fieldset> & <legend></legend>
 - Used to group several controls as well as labels within a web form



Summary



- Responsive Web Design == important concept in web applications
 - Automatically adjusts content for various screens and viewports
 - Controlled using rules, queries, logical operators
- HTML forms == section from a web page for sending data to a web server
 - Controlled using method types and HTML elements





Questions?



















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