

# Javascript

## Segment 5

CS 638 Web Programming



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## Important concepts



- ❑ Scripting languages
  - ❑ Interpreted, not compiled
  - ❑ Lax typing
  - ❑ Objects as associative arrays (dictionaries)
  - ❑ Prototype-based inheritance
- ❑ Client-side event handlers
- ❑ Client-side validation of user input
- ❑ The document object model
  - ❑ Code can read and change document dynamically

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## Specific technologies(1)



- ❑ JavaScript – the language
  - ❑ Arrays
  - ❑ Functions are just another type of object
  - ❑ Variable scoping
- ❑ JavaScript and the browser
  - ❑ Adding JavaScript: `<script>`, event handlers, and `javascript: links`
  - ❑ Important objects linked to browser: `document`, `location`, `navigator`, etc.
  - ❑ Direct user interaction: `alert()`, `confirm()`, `prompt()`
  - ❑ Timers: `setTimeout()`, `clearTimeout()`, `setInterval()`, and `clearInterval()`

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## Specific technologies (2)



- ❑ Accessing forms
  - ❑ `document.forms`, `document.forms[0].elements`,  
`document.forms[0].elements[2]`,  
`document.forms[0].xyz`
  - ❑ Important element properties: `type`, `name`, `value`
- ❑ Accessing the entire document with W3C DOM
  - ❑ Tree structure for the document
  - ❑ Methods for manipulating DOM
  - ❑ Standard properties of DOM nodes
- ❑ Various events we can define handlers for:  
`onchange`, `onsubmit`, etc.
  - ❑ Most HTML elements can have their own event handlers

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