

where to put Javascript

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execute now

now? Goodbye before Hello

script element

- usually in head, but in body allowed too
- > executes when encountered, but...

generally not good

- page content has not been fully loaded
- > DOM incomplete, manipulations unpredictable

embedding Javascript

embed listener code in HTML

a code string, not a function

code executes in element's namespace

so shadowing of function & var names

javascript and HTML jumbled together

makes a horrible mess

a better separation

strategy

- declare functions, usually in head
- register a main function against page being loaded
- > this function registers other functions...

"unobtrusive Javascript"

- > separate JS from HTML markup
- degrade gracefully, and accessibly

unobtrusive javascript

```
<!DOCTYPE html>
<head>
    <title>unobtrusive JS example</title>
    <script>
        function setup() {
            var inputs = document.body.getElementsByTagName('input');
            for (var i = 0; i < inputs.length; i++) {</pre>
                 inputs[i].addEventListener('mouseover',
                     function (evt) {evt.target.focus();});
            };
        window.onload = setup;
    </script>
</head>
<body>
    name:<input></input><br>
    email:<input></input>
</body>
</html>
```

what it does

> when mouse hovers over input element, gives it focus

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6.170 Software Studio Spring 2013

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