

Form Validation

Lecture 24

Robb T. Koether

Hampden-Sydney College

March 19, 2012

1 Error Detection in Javascript

2 Form Validation

Outline

1 Error Detection in Javascript

2 Form Validation

The `onerror` Event Handler

The `onerror` Event Handler

```
onerror = errorHandler;
```

- The `onerror` event handler can be used to direct execution to a specified function if an error occurs.

The errorHandler Function

The errorHandler Function

```
function errorHandler(message, url, line)
{
    errMsg = "Sorry, an error was encountered\n\n";
    errMsg += "Error: " + message + "\n";
    errMsg += "URL: " + url + "\n";
    errMsg += "Line: " + line + "\n";
    errMsg += "Click OK to continue.\n\n";
    alert(errMsg);
    return true;
}
```

- The values of `message`, `url`, and `line` are automatically generated.
- In this example, the `errorHandler()` function will be called if a Javascript error occurs.

Outline

1 Error Detection in Javascript

2 Form Validation

Form Validation

- An HTML form should attempt to validate the information that is entered before sending that information to the PHP file.
- At a minimum, it should verify that every required field is filled.
- It can also check that numerical values are within a reasonable range, etc.

Form Validation

Form Validation

```
<form method="POST" onsubmit="return validate()" action="aboutme.p
      :
</form>
```

Form Validation

The validate() Function

```
function validate()
{
    var name = document.getElementById("name").value;
    if (name == "")
    {
        alert("Please enter your name");
        return false;
    }
    return true;
}
```

Form Validation

The validate() Function

```
function validate()
{
    var age = document.getElementById("age").value;
    age = parseInt(age);
    if (isNaN(age) || age < 0 || age > 120)
    {
        alert("Please enter your age");
        return false;
    }
    return true;
}
```

Form Validation

The validate() Function

```
function validate()
{
    var sex = document.getElementById("sex").value;
    if (sex == "0")
    {
        alert("Please select your sex");
        return false;
    }
    return true;
}
```

Form Validation

The getElementById() Function

```
function $(id)
{
    return document.getElementById(id);
}
function validate()
{
    var name = $("name").value;
    :
}
```

- The `getElementById()` function is used so frequently that programmers often write a function called `$` to replace it.

Form Validation

The `validate()` Function

```
function validate()
{
    var name = $("name").value;
    if (name == "")
    {
        alert("Please enter your name");
        return false;
    }
    return true;
}
```

- The earlier example, now using `$()`.