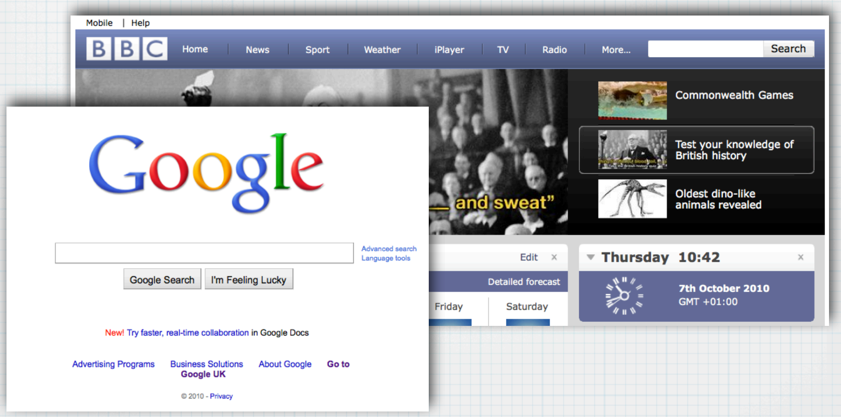
# PHP

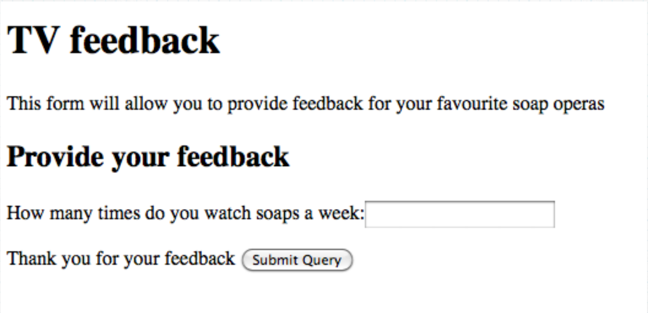
## forms,
## control structures - if / switch

# Web forms

## Most common way of getting data from user



# Web forms



# TV feedback

This form will allow you to provide feedback for your favourite soap operas

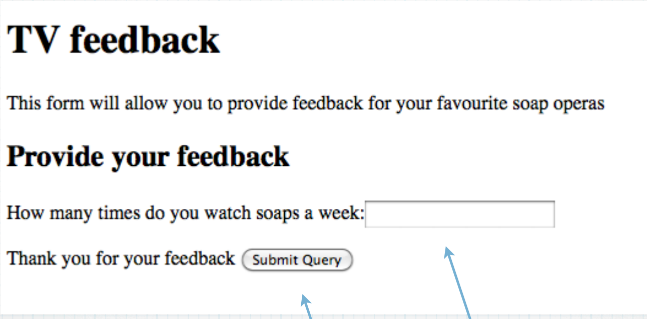
## Provide your feedback

How many times do you watch soaps a week:

Thank you for your feedback

Demo

## Web forms



# TV feedback

This form will allow you to provide feedback for your favourite soap operas

## Provide your feedback

How many times do you watch soaps a week:

Thank you for your feedback

Input field - text

Input field - submit button

## Web forms

No PHP in here - can be saved as an .html file

```
<body>
<h1>TV feedback</h1>
<p>This form will allow you to provide feedback for your favourite soap operas</p>
<h2>Provide your feedback</h2>

<form name="soapform" action="response1.php" method="get">

<p>How many times do you watch soaps a week:<input type="text" name="timesaweek" /></p>
<p>Thank you for your feedback <input type="submit" name="continue" /></p>

</form>

</body>
```

## Web forms

form must be indicated by form element

```
<body>
<h1>TV feedback</h1>
<p>This form will allow you to provide feedback for your favourite soap operas</p>
<h2>Provide your feedback</h2>

<form name="soapform" action="response1.php" method="get">



</form>

</body>
```

Needs at least three attributes name, action and method

## Web forms

### form must be indicated by form element

```
<body>
<h1>TV feedback</h1>
<p>This form will allow you to provide feedback for your favourite soap operas</p>
<h2>Provide your feedback</h2>

<form name="soapform" action="response1.php" method="get">


</form>

</body>
```

Use name to give each form on the page a unique name

## Web forms

### form must be indicated by form element

```
<body>
<h1>TV feedback</h1>
<p>This form will allow you to provide feedback for your favourite soap operas</p>
<h2>Provide your feedback</h2>

<form name="soapform" action="response1.php" method="get">


</form>

</body>
```

Use action to indicate the ‘next’ page where the form will be processed

## Web forms

### form must be indicated by form element

```
<body>
<h1>TV feedback</h1>
<p>This form will allow you to provide feedback for your favourite soap operas</p>
<h2>Provide your feedback</h2>

<form name="soapform" action="response1.php" method="get">


</form>

</body>
```

Use method to indicate the way that data will be transferred

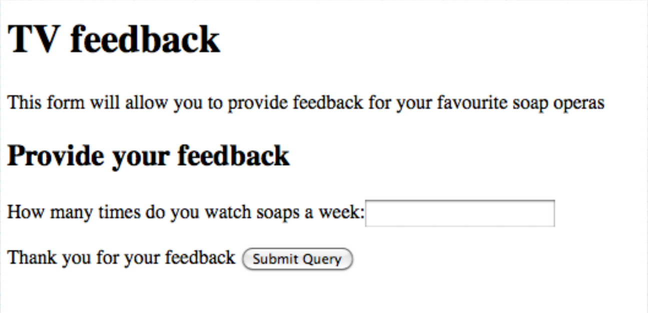
## Web forms

### Two ways of passing information between pages

| | |
|---|---|
| get | form information is passed through the URL |
| post | form information is embedded in the HTTP stream |

..more on this in a minute

## form elements



# TV feedback

This form will allow you to provide feedback for your favourite soap operas

## Provide your feedback

How many times do you watch soaps a week:

Thank you for your feedback

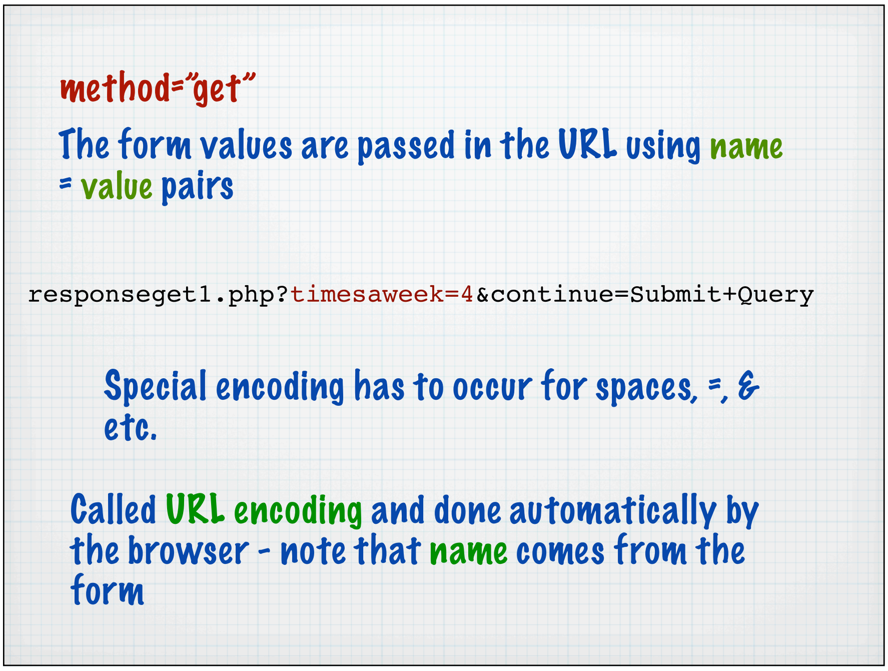
```
<input type="text" name="timesaweek" />
<input type="submit" name="continue" />
```

Give every form element a unique name - these are used to pass the data values and in the processing page

## method="get"

The form values are passed in the URL using name = value pairs

```
responseget1.php?timesaweek=4&continue=Submit+Query
```



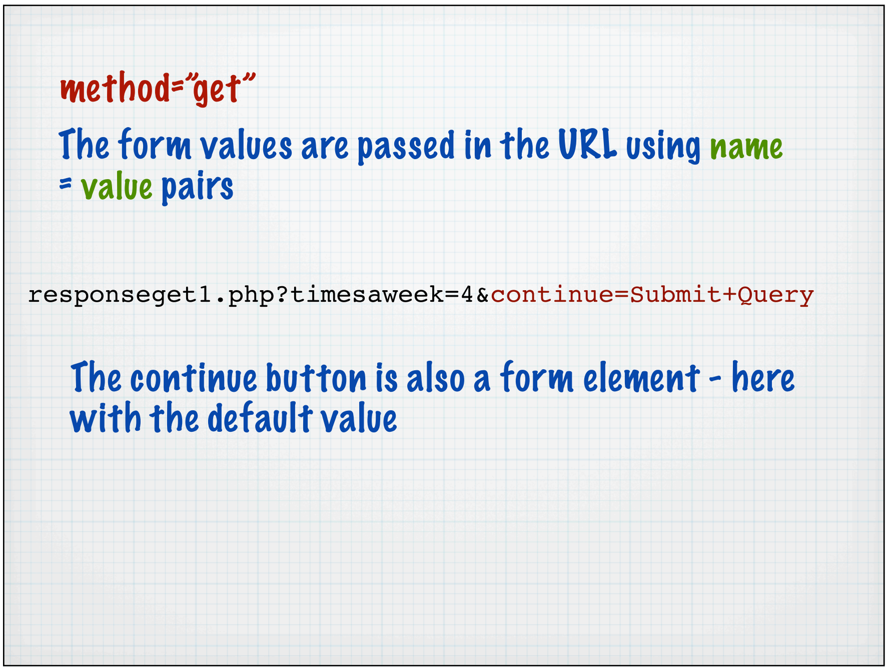
## method=”get”

The form values are passed in the URL using name = value pairs

```
responseget1.php?timesaweek=4&continue=Submit+Query
```

Special encoding has to occur for spaces, =, & etc.

Called URL encoding and done automatically by the browser - note that name comes from the form

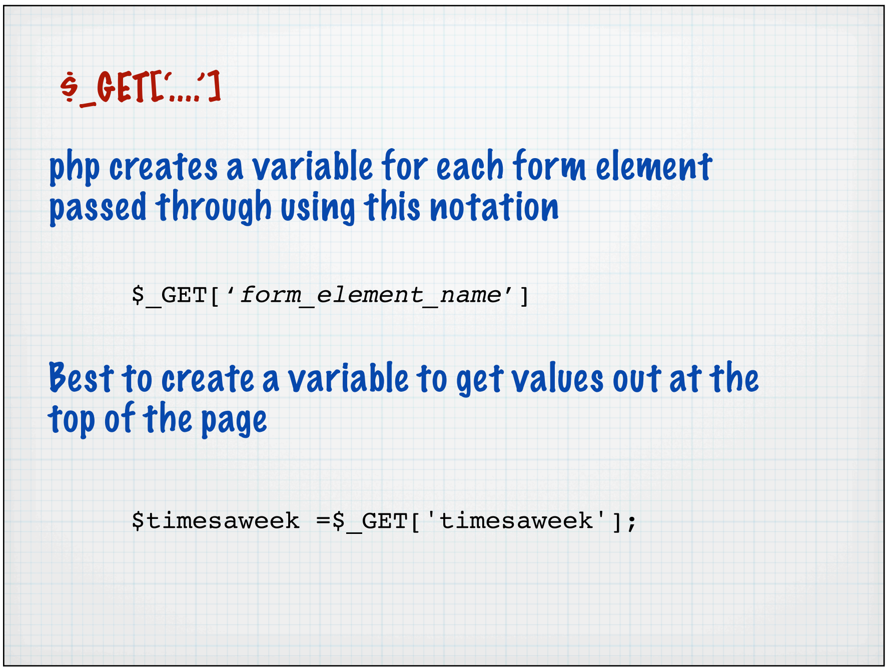


## method=”get”

The form values are passed in the URL using name = value pairs

```
responseget1.php?timesaweek=4&continue=Submit+Query
```

The continue button is also a form element - here with the default value



## $_GET[‘....’]

php creates a variable for each form element passed through using this notation

```
$_GET[‘form_element_name’]
```

Best to create a variable to get values out at the top of the page

```
$timesaweek =$_GET['timesaweek'];
```

# Web forms

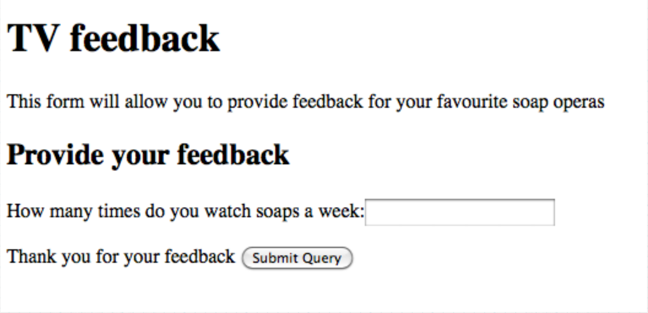
## responseget1.php page

```
<?php
$timesaweek =$_GET['timesaweek'];
?>

<html>
<head>
</head>
<body>
<h1>Responses</h1>
<p>Here are the results</p>
<p>
<?php
print "<p>The amount watched was ".$timesaweek."</p>";

?>
</p>
</body>
</html>
```

# Web forms - POST example



# TV feedback

This form will allow you to provide feedback for your favourite soap operas

## Provide your feedback

How many times do you watch soaps a week:

Thank you for your feedback

Looks the same in the browser

# method="post"

```
<body>
<h1>TV feedback</h1>
<p>This form will allow you to provide feedback for your favourite soap operas</p>
<h2>Provide your feedback</h2>

<form name="soapform" action="response2.php" method="post">

<p>How many times do you watch soaps a week:<input type="text" name="timesaweek" /></p>
<p>Thank you for your feedback <input type="submit" name="continue" /></p>

</form>

</body>
```

Small change here

But how is the data passed to the next page when using POST?

# Web forms

## Two ways of passing information between pages

| | |
|---|---|
| get | form information is passed through the URL |
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# Web forms

## Two ways of passing information between pages

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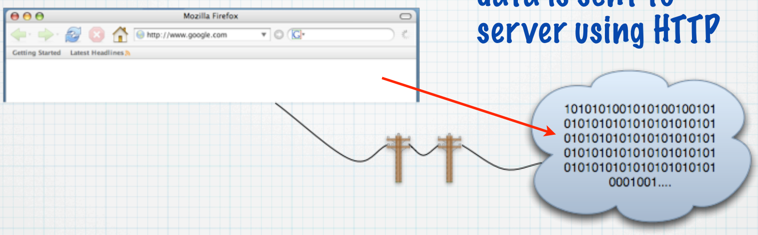
# How _POST works ...

User clicks on form

Page request AND data is sent to server using HTTP



```
POST /responses.php HTTP/1.1
Host: www.example.com
User-Agent: Mozilla/5.0
Content-Length: 27
Content-Type: application/x-www-form-urlencoded

timesaweek=4&continue=Submit+Query
```

## $_POST['....']

php creates a variable for each form element passed through using this notation

```
$_POST['form_element_name']
```

Best to create a variable to get values out at the top of the page

```
$timesaweek =$_POST['timesaweek'];
```

## Web forms

responsepost1.php page

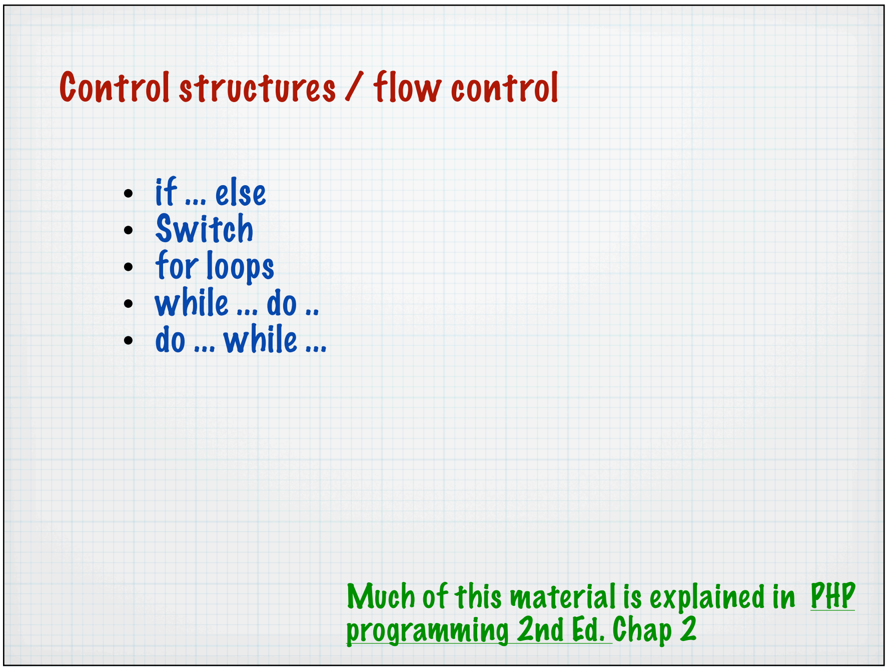
```
<?php
$timesaweek =$_POST['timesaweek'];
?>

<html>
<head>
</head>
<body>
<h1>Responses</h1>
<p>Here are the results</p>
<p>
<?php
print "<p>The amount watched was ".$timesaweek."</p>";

?>
</p>
</body>
</html>
```

Uses the _POST array

## Method choice - GET vs POST

GET - visible, bookmarkable

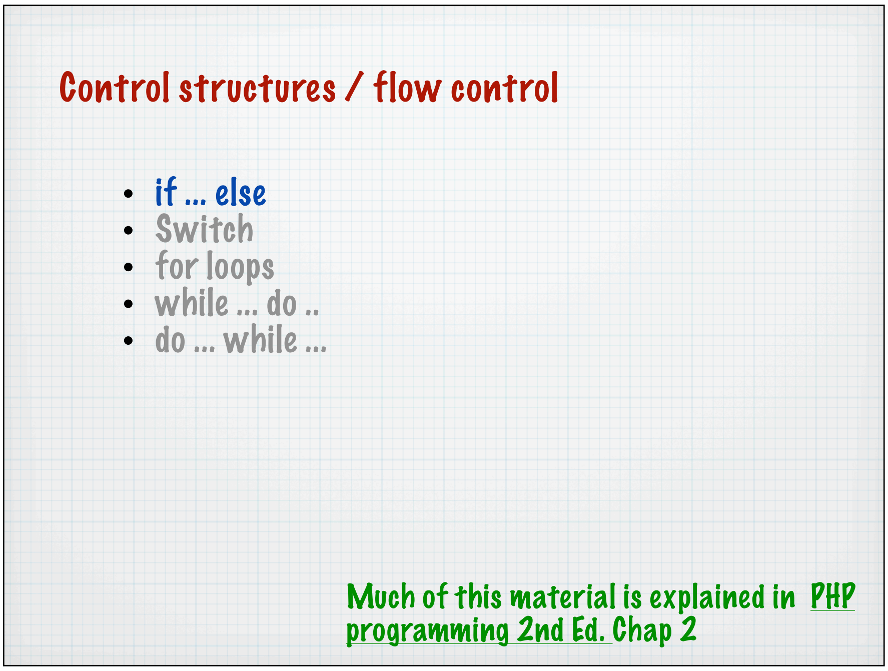
POST - not seen on screen, not bookmarkable



## Control structures / flow control

- if ... else
- Switch
- for loops
- while ... do ..
- do ... while ...

Much of this material is explained in PHP programming 2nd Ed. Chap 2



## Control structures / flow control

- if ... else
- Switch
- for loops
- while ... do ..
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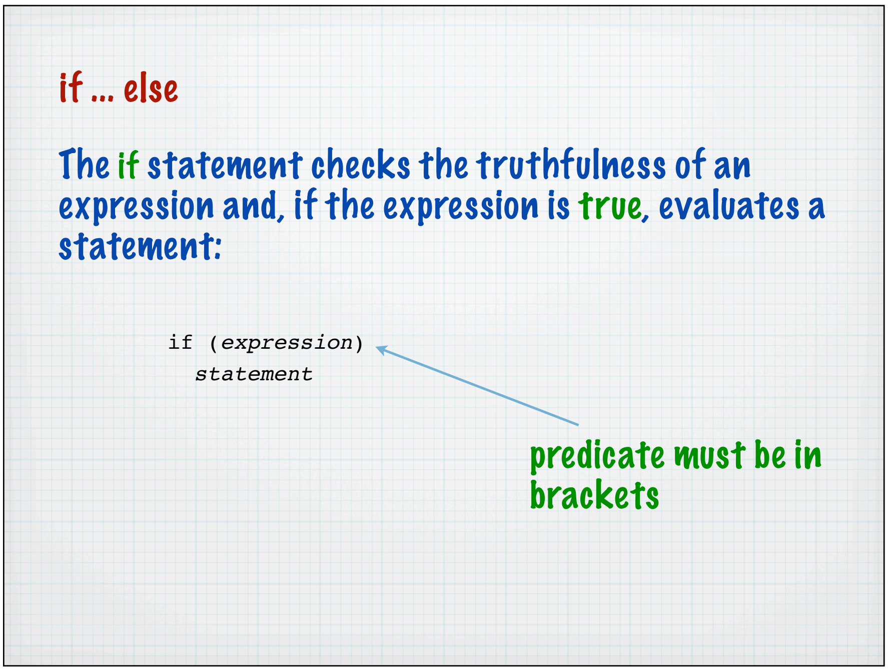


## if ... else

The if statement checks the truthfulness of an expression and, if the expression is true, evaluates a statement:

```
if (expression)
  statement
```

predicate must be in brackets

## if ... else

To specify an alternative statement to execute when the expression is false, use the else keyword:

```
if (expression)
  statement
else
  statement
```

## if ... else

To include more than one statement in an if statement, use a block / curly brace-enclosed set of statements:

```
if (expression){
   statement;
   statement;
   }
else {
   statement;
   statement;
   };
```

## Example

Should we take an umbrella ?

```
$weather=”Sunny”;
print "<p>The Weather is: ".$weather."</p>";
if ($weather==”Rainy”){
   print "<p>Take an umbrella</p>";
   }
else
   {
   print "<p>Forget the umbrella - its nice!</p>";
};
```

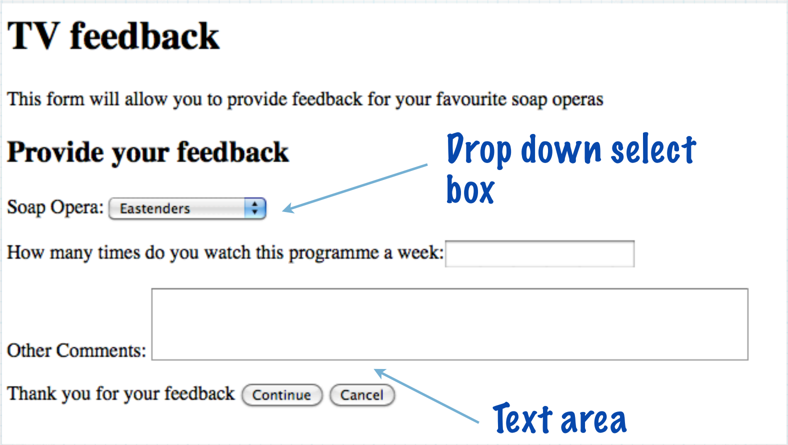
## Note - Excellent PHP manual on-line

http://uk.php.net/

### Every entry has

- Description
- Syntax
- Examples
- Comments and hints from other users

## More form elements



# TV feedback

This form will allow you to provide feedback for your favourite soap operas

## Provide your feedback

Soap Opera: Eastenders

How many times do you watch this programme a week:

Other Comments:

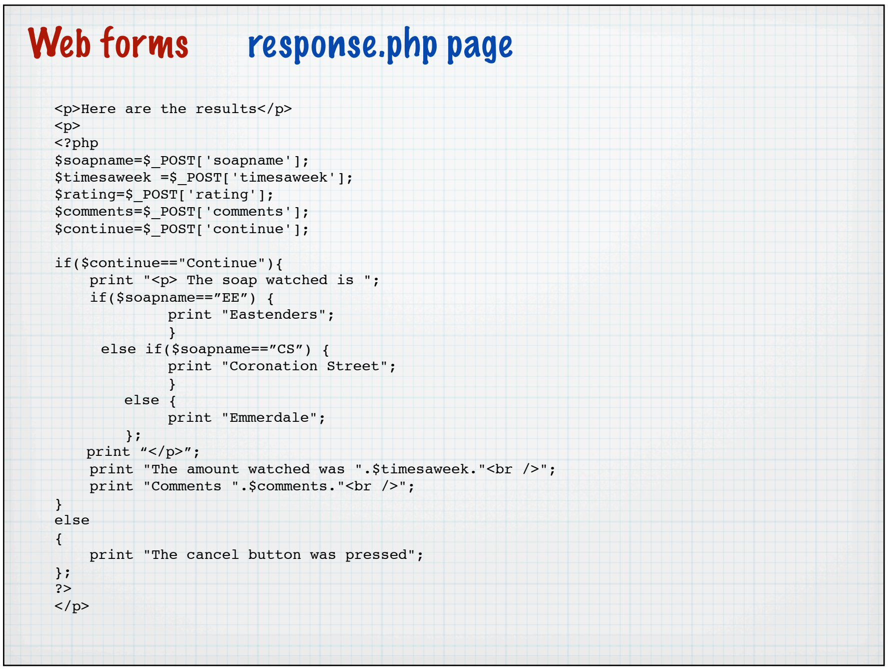
Thank you for your feedback

Drop down select box

Text area

## Web forms

```
<!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML 4.01 Transitional//EN"
 "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<title>TV Feedback</title>
</head>
<body>
<h1>TV feedback</h1>
<p>This form will allow you to provide feedback for your favourite soap operas</p>
<h2>Provide your feedback</h2>
<form name="form1" action="response3.php" method="post">
<p>Soap Opera:
    <select name="soapname">
      <option value="EE">Eastenders</option>
      <option value="CS">Coronation Street</option>
      <option value="EMD">Emmerdale</option>
    </select>
</p>
<p>How many times do you watch this programme a week:<input type="text" name="timesaweek" /></p>
<p>Other Comments: <textarea name="comments" cols="60" rows="3"></textarea></p>
<p>Thank you for your feedback
<input type="submit" name="continue" value="Continue" />
<input type="submit" name="continue" value="Cancel" /></p>
</form>
</body>
</html>
```



# Web forms response.php page

```
<p>Here are the results</p>
<p>
<?php
$soapname=$_POST['soapname'];
$timesaweek =$_POST['timesaweek'];
$rating=$_POST['rating'];
$comments=$_POST['comments'];
$continue=$_POST['continue'];

if($continue=="Continue"){
    print "<p> The soap watched is ";
    if($soapname==”EE”) {
             print "Eastenders";
             }
     else if($soapname==”CS”) {
             print "Coronation Street";
             }
        else {
             print "Emmerdale";
        };
    print “</p>”;
    print "The amount watched was ".$timesaweek."<br />";
    print "Comments ".$comments."<br />";
}
else
{
    print "The cancel button was pressed";
};
?>
</p>
```