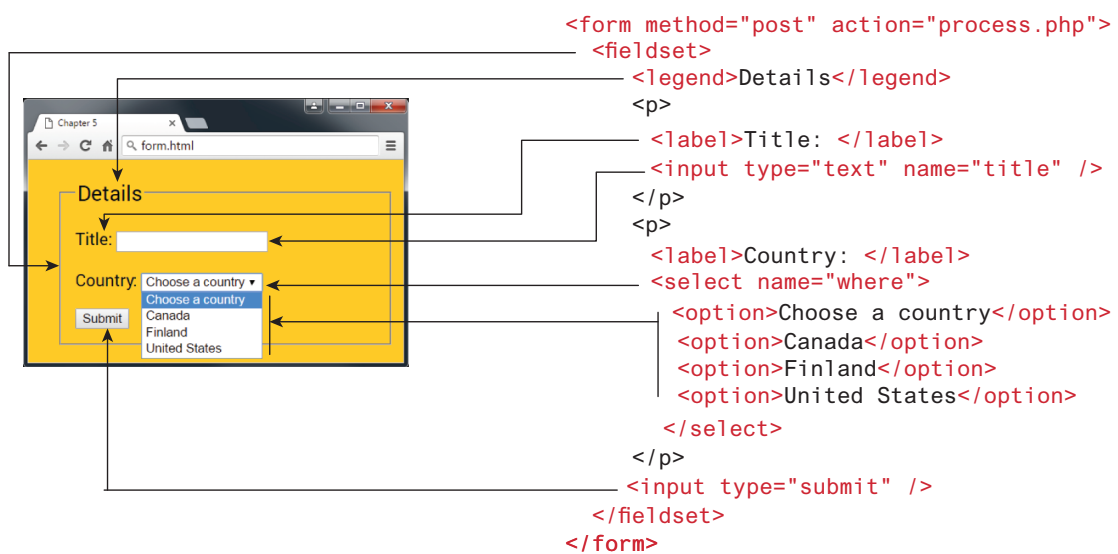


# Forms

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## Introducing Forms

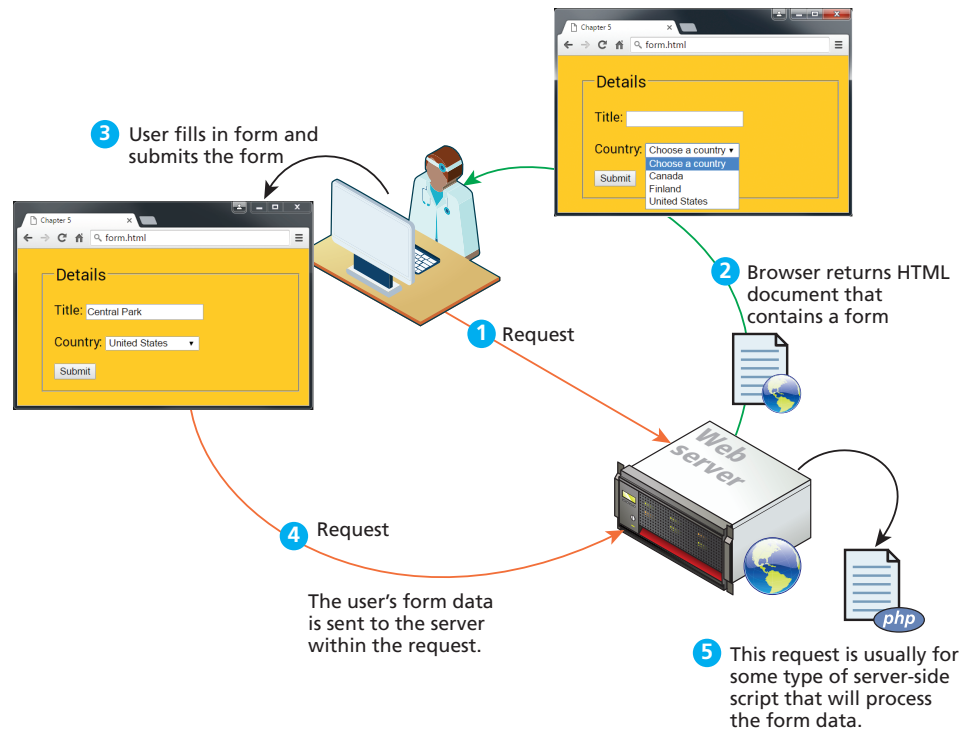
### Form Structure



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# Introducing Forms

## How Forms Work



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# Introducing Forms

## Query Strings

```
<input type="text" name="title" />
```

A screenshot of a web browser showing a form titled "Details". The form has two input fields: "Title" with the value "Central Park" and "Country" with the value "United States". There is a "Submit" button at the bottom.

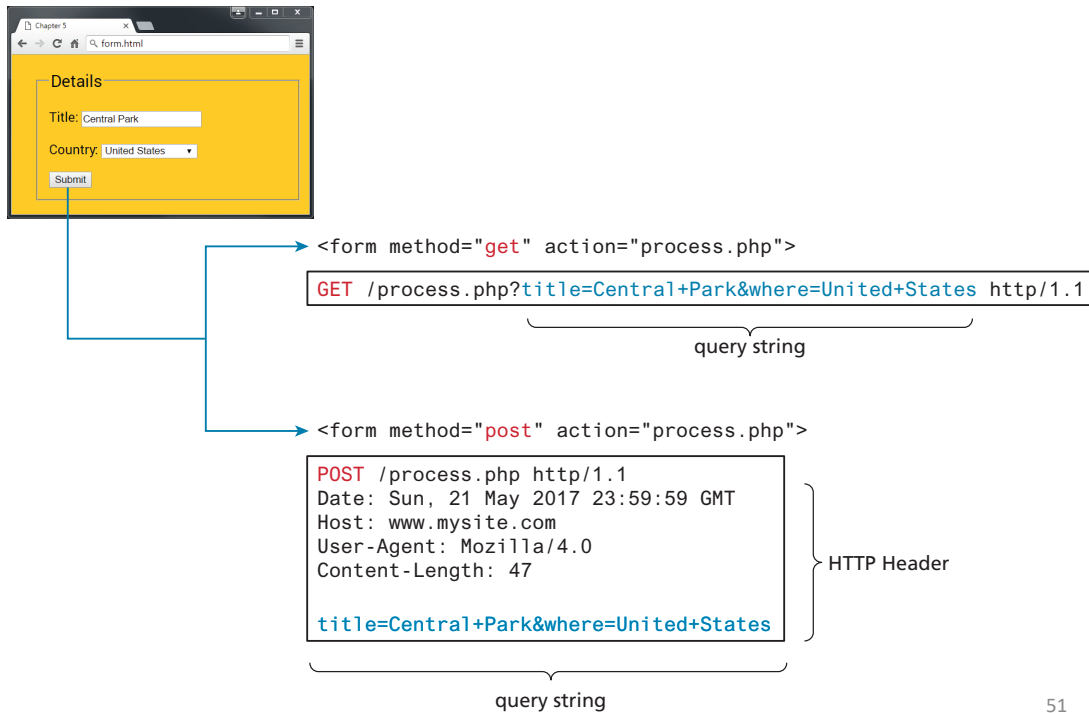
`title=Central+Park&where=United+States`

```
<select name="where">
```

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# Introducing Forms

## GET and POST



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# Form Control Elements

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# Form Control Elements

## Text Input Controls

```
<input type="text" ... />
```

Text:

```
<textarea>
  enter some text
</textarea>
```

TextArea:

```
<textarea placeholder="enter some text">
</textarea>
```

TextArea:

```
<input type="password" ... />
```

Password:

Password:

```
<input type="search" placeholder="enter search text" ... />
```

Search:

Search:

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# Form Control Elements

## Text Input Controls

```
<input type="email" ... />
```

Email:

*In Opera*

Please enter a valid email address

Email:

*In Chrome*

Please enter an email address.

```
<input type="url" ... />
```

url:

Please enter a URL.

```
<input type="tel" ... />
```

Tel:

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# Form Control Elements

New in HTML5 – pattern and datalist

```
<input type="text" ... placeholder="L#L #L#" pattern="[a-z][0-9][a-z] [0-9][a-z][0-9]" />
```

Postal:

Postal:

! Please match the requested format.

Search City:

Paris  
Prague

```
<input type="text" name="city" list="cities" />

<datalist id="cities">
  <option>Calcutta</option>
  <option>Calgary</option>
  <option>London</option>
  <option>Los Angeles</option>
  <option>Paris</option>
  <option>Prague</option>
</datalist>
```

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# Form Control Elements

Choice Controls ( <select> )

Select:

Select:   
First  
Second  
Third

Select:   
First  
Second  
Third  
Fourth

Cities:   
North America  
Calgary  
Los Angeles  
Europe  
London  
Paris  
Prague

```
<select name="choices">
  <option>First</option>
  <option selected>Second</option>
  <option>Third</option>
</select>

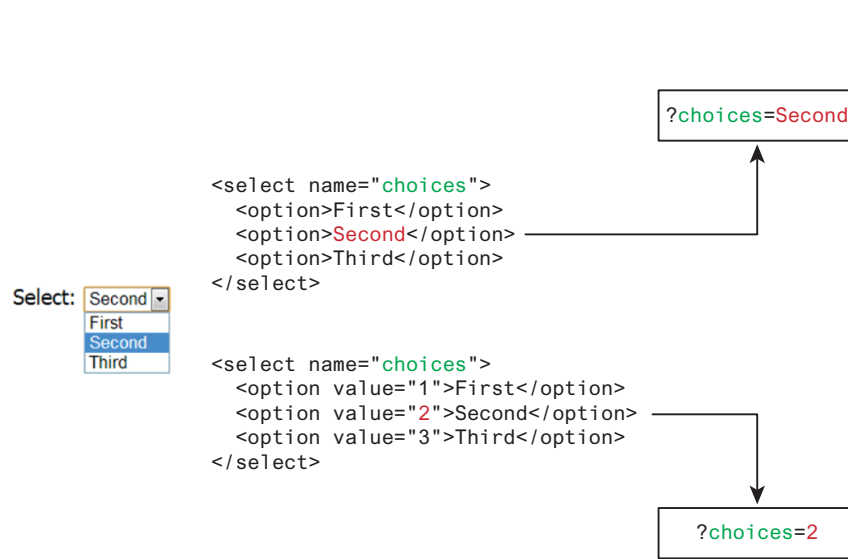
<select size="3" ... >

<select ... >
  <optgroup label="North America">
    <option>Calgary</option>
    <option>Los Angeles</option>
  </optgroup>
  <optgroup label="Europe">
    <option>London</option>
    <option>Paris</option>
    <option>Prague</option>
  </optgroup>
</select>
```

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## Form Control Elements

Choice Controls <select> using value attribute



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## Form Control Elements

Button Controls (radio)

Continent:

- ☐ North America
- ☒ South America
- ☐ Asia

```
<input type="radio" name="where" value="1">North America<br/>
<input type="radio" name="where" value="2" checked="">South America<br/>
<input type="radio" name="where" value="3">Asia
```

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# Form Control Elements

## Button Controls (checkbox)

I accept the software license ☒ `<label>I accept the software license</label>`  
`<input type="checkbox" name="accept" >`

Where would you like to visit?  
☒ Canada  
☐ France  
☒ Germany

`<label>Where would you like to visit? </label><br/>`  
`<input type="checkbox" name="visit" value="canada">Canada<br/>`  
`<input type="checkbox" name="visit" value="france">France<br/>`  
`<input type="checkbox" name="visit" value="germany">Germany`

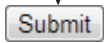
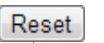
`?accept=on&visit=canada&visit=germany`

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# Form Control Elements

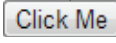

## Button Controls (checkbox)

`<input type="submit" />`

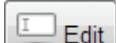

 

`<input type="reset" />`

`<input type="button" value="Click Me" />`

`<input type="image" src="appointment.png" />`

`<button>`  
`<a href="email.html">`  
``  
`Email`  
`</a>`  
`</button>`

`<button type="submit" >`  
``  
`Edit`  
`</button>`

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# Form Control Elements

## Specialized Controls (file upload)

Upload a travel photo  
 No file chosen



Upload a travel photo  
 IMG\_0020.JPG

```
<form method="post" enctype="multipart/form-data" ... >
...
<label>Upload a travel photo</label>
<input type="file" name="photo" />
...
</form>
```

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# Form Control Elements

## Specialized Controls (number and range controls)

Rate this photo:

```
<label>Rate this photo: <br/>
<input type="number" min="1" max="5" name="rate" />
```

Grumpy  Ecstatic

```
Grumpy
<input type="range" min="0" max="10" step="1" name="happiness" />
Ecstatic
```

Rate this photo:

Grumpy  Ecstatic

Controls as they appear in browser  
that doesn't support these input types

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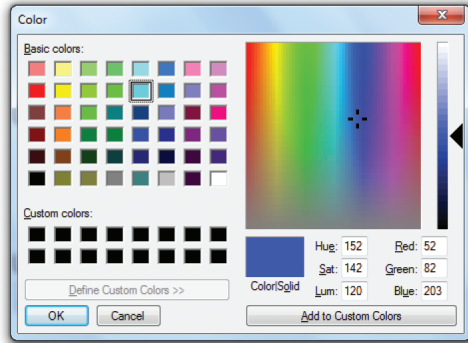
# Form Control Elements

## Specialized Controls (colour)

Background Color:



```
<label>Background Color: <br/>
<input type="color" name="back" />
```



Background Color:



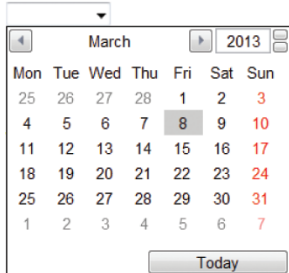
Control as it appears in browser that doesn't support this input type

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# Form Control Elements

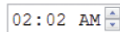
## Date and Time Controls

Date:



```
<label>Date: <br/>
<input type="date" ... />
```

Time:



```
<input type="time" ... />
```

DateTime:



```
<input type="datetime" ... />
```

DateTime Local:



```
<input type="datetime-local" ... />
```

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# Form Control Elements

## Date and Time Controls

Date:

Mon	Tue	Wed	Thu	Fri	Sat	Sun
25	26	27	28	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Today

```
<label>Date: <br/>
<input type="date" ... />
```

Time:

02:02 AM

```
<input type="time" ... />
```

DateTime:

2013-03-08 05:46 UTC

```
<input type="datetime" ... />
```

DateTime Local:

2013-03-13 12:02

```
<input type="datetime-local" ... />
```

Month:

March, 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
24	25	26	27	28	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

This month Clear

```
<input type="month" ... />
```

Week:

2013-W10

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
9	25	26	27	28	1	2	3
10	4	5	6	7	8	9	10
11	11	12	13	14	15	16	17
12	18	19	20	21	22	23	24
13	25	26	27	28	29	30	31
14	1	2	3	4	5	6	7

Today

```
<input type="week" ... />
```

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# Table and Form Accessibility

## Accessible Tables

- Use tables for data, not layout
- Use the <caption> element
- Connect cells with a textual description in the header

```
<caption>Famous
Paintings</caption>
<tr>
<th scope="col">Title</th>
<th scope="col">Artist</th>
<th scope="col">Year</th>
<th scope="col">Width</th>
<th scope="col">Height</th>
</tr>
```

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## Table and Form Accessibility

### Accessible Form

```
<label for="f-title">Title: </label>
```

```
<input type="text" name="title" id="f-title"/>
```

```
<label for="f-country">Country: </label>
```

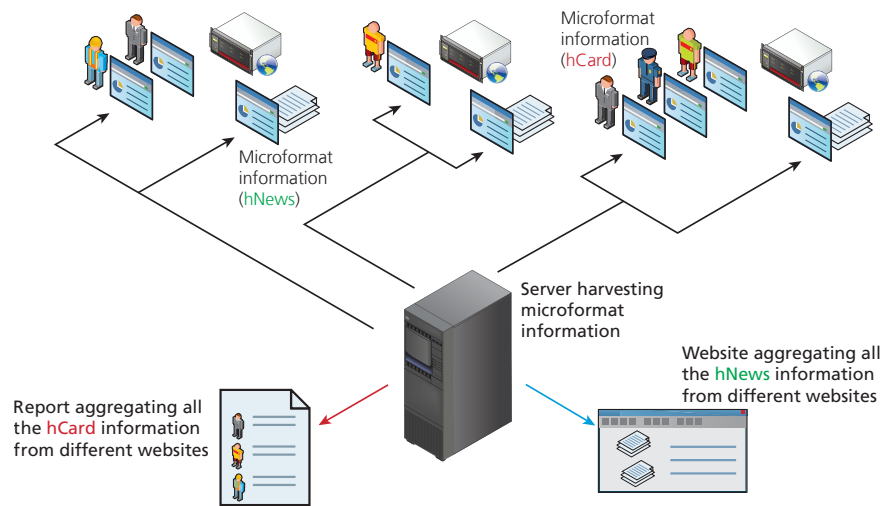
```
<select name="where" id="f-country">  
  <option>Choose a country</option>  
  <option>Canada</option>  
  <option>Finland</option>  
  <option>United States</option>  
</select>
```

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## Microformats

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# Microformats



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# Microformats

## References

hCard, which is used to semantically mark up contact information for a person

- <http://microformats.org/wiki/hcard>.

Schema.org aims to create and promote schemas for structured data on the Web. Google's on-line testing tool helps developers test their semantic markup and microformats

- <https://search.google.com/structured-data/testing-tool/u/0/>

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