

## CS320 Web and Internet Programming

### HTML Forms

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## HTML

### ◆ Hypertext Markup Language

- Text
- Tags
  - ◆ Attributes

## A Simple HTML File

## The Form Tag

### ◆ `<form></form>`

### ◆ Three attributes

- `action`
  - ◆ Required
  - ◆ Pointing to some file that process the input data
- `method`
  - ◆ `get` or `post`
- `enctype`
  - ◆ Encoding type

## Get and Post

### ◆ Get

- Default
- Encode the form data into a URL
- Recommended only for *pure queries* – no server state changes

### ◆ Post

- Causes a HTTP Post transaction
- The form data is encoded in a message body

## Form Components

### ◆ Input tag

- Text field
- Password field
- Check boxes
- Radio button
- Button

### ◆ Textarea tag

- Text area

### ◆ Select tag

- Drop-down menu
- Scroll list

## Text Field

- ◆ `<input>`
  - `type=text`
  - `name` – name of this input field
  - `value` – default value
  - `size` – length of the text field
  - `maxlength` – max number of character a user can input

```
<input type=text name=login>
```

## Password Field

- ◆ `<input>`
  - `type=password`
  - `name` – name of this input field
  - `value` – default value

```
<input type=password name=pass>
```

## Check Boxes

- ◆ `<input>`
  - `type=checkbox`
  - `name` – name of this input field
  - `value` – what will be returned when the box is checked. `on` if the value attribute is omitted
  - `checked`

```
<input type=checkbox name=tea>  
<input type=checkbox name=coffee checked>  
<input type=checkbox name=beer>
```

## Radio Buttons

- ◆ `<input>`
  - `type=radio`
  - `name` – all radio buttons in a group should have the same name
  - `value` – all radio buttons in a group should have different values
  - `checked` – no more than one radio button in a group should be checked by default

```
<input type=radio name=fav value=tea>  
<input type=radio name=fav value=coffee>  
<input type=radio name=fav value=beer>
```

## Submit and Reset Buttons

- |   |  |
|---|--|
| ◆ <code>&lt;input&gt;</code> <ul style="list-style-type: none"><li>■ <code>type=submit</code></li><li>■ <code>name</code></li><li>■ <code>value</code> – text shown on the button</li></ul> | ◆ <code>&lt;input&gt;</code> <ul style="list-style-type: none"><li>■ <code>type=reset</code></li><li>■ <code>name</code></li><li>■ <code>value</code> – text shown on the button</li></ul> |
|---|--|

```
<input type=submit name=done value="Done!">  
<input type=reset name=startover value="Start Over!">
```

## Text Area

- ◆ `<textarea>`
  - `name` – name of this text area
  - `rows`
  - `cols`
  - Default text??

```
<textarea name=feedback rows=5></textarea>
```

## Drop-down Menu

- ◆ `<select>`
    - name – name of this menu
    - size=1
    - multiple
    - `<option>`
      - ◆ selected
      - ◆ value
- ```
<select name=fav2>
<option>coffee
<option selected>tea
<option>beer
</select>
```

## Simple and Scroll List

- ◆ Simple list
  - size = *number\_of\_options*
- ◆ Scroll list
  - $1 < \text{size} < \text{number\_of\_options}$