HTML Lists and Forms

SENG 4640
Software Engineering for Web Apps
Winter 2023

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Review

- **HTML** allows us to specify the structure of Web content

- **CSS** is a formatting language used to describe the appearance of content in an HTML file

Lists in HTML: `<ol>` and `<ul>`

- Lists can either be ordered or unordered

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Ordered List: `<ol>`

1. January
2. February
3. March

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Ordered List: <ol>

1. January
2. February
3. March

```
<ol>
    <li> January </li>
    <li> February </li>
    <li> March </li>
</ol>
```

Lists in HTML: <ol> and <ul>

- Lists can either be ordered or unordered

Ordered List: <ol>

1. January
2. February
3. March

```
<ol>
    <li> January </li>
    <li> February </li>
    <li> March </li>
</ol>
```

Unordered List: <ul>

- Eliana
- Chris
- Swapneel

Lists in HTML: <ol> and <ul>

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Ordered List: <ol>

1. January
2. February
3. March

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    <li> January </li>
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Lists in HTML: <ol> and <ul>

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1. January
2. February
3. March

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<ol>
    <li> January </li>
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Unordered List: <ul>

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<ul>
    <li> Eliana </li>
    <li> Chris </li>
    <li> Swapneel </li>
</ul>
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- In both cases, use **<li>** tag to represent List Items

Unordered Lists - Style

- Use CSS style properties to determine the style of bullet point used within the list as follows (inline example)

Unordered Lists - Style

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```
<ul style="list-style-type:circle">
    <li> Eliana </li>
    <li> Chris </li>
    <li> Swapneel </li>
</ul>
```

Unordered Lists - Style

- Use CSS style properties to determine the style of bullet point used within the list as follows (inline example)

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<ul style="list-style-type:circle">
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</ul>
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list-style-type:value	Bullet View
disc	• Disc is the default value
circle	○ This is the circle view
square	■ This is the square view
none	No bullets, just list items

Ordered Lists - Style

- Use the *type* attribute of `<ol>` tag to select numbering of each item

Ordered Lists - Style

- Use the *type* attribute of `<ol>` tag to select numbering of each item

```
<ol type="A" >
    <li> January</li>
    <li> February</li>
    <li> March</li>
</ol>
```

Ordered Lists - Style

- Use the *type* attribute of `<ol>` tag to select numbering of each item

```
<ol type="A" >
    <li> January</li>
    <li> February</li>
    <li> March</li>
</ol>
```

Ordered List

A. January
B. February
C. March

Ordered Lists - Style

- Use the *type* attribute of `<ol>` tag to select numbering of each item

```
<ol type="A" >
    <li> January</li>
    <li> February</li>
    <li> March</li>
</ol>
```

Ordered List

A. January
B. February
C. March

type	View
type="1"	1. This is the default setting 2. for ordered lists
type="A"	A. Items ordered with B. Uppercase letters
type="a"	a. Items ordered with b. Lowercase letters
type="I"	I. Items ordered with II. Uppercase Roman Numerals
type="i"	i. Items ordered with ii. Lowercase Roman Numerals

Nested Lists

- List items can themselves include lists as well to produce a nested list effect

```
<ul style="list-style-type:circle">
   <li> Eliana </li>
   <li> Chris </li>
      <ol type="A">
         <li> SD2x </li>
         <li> SD4x </li>
      </ol>
   <li> Swapneel </li>
</ul>
```

Nested Lists

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```
<ul style="list-style-type:circle">
    <li> Eliana </li>
    <li> Chris </li>
        <ol type="A">
            <li> SD2x </li>
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        </ol>
    <li> Swapneel </li>
</ul>
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        </ol>
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        <ol type="A">
            <li> SD2x </li>
            <li> SD4x </li>
        </ol>
    <li> Swapneel </li>
</ul>
```

- Eliana
- Chris
    A. SD2x
    B. SD4x
- Swapneel

Application Form

Full Name:
Email Address:
Password:
Date of Birth: mm/dd/yyyy
Graduation Year:
Phone Number:

Demographics

Gender: Male Female Undisclosed

Race: African American Asian White American Indian Pacific Islander Other

Personal Preferences:

Favorite Color:

Resume Submission: Choose File No file chosen

Submit Reset

Forms

- Forms are used to retrieve information from user of a Web page
- Enclose all form fields within **<form>** elements

```
<form>
  Full name:<br>
   <input type="text" name="fullname" value="Jane Doe">
  <br>
  Email Address:<br>
   <input type="email" name="email"
    value="jdoe@example.com">
  <br><br>
  <input type="submit" value="Submit">
</form>
```

Forms: <input type="value">

- Use the *type* attribute of the input tag to provide more information on what type of data to expect from the user

- Different *types* often allow different input formats that make data entry more convenient for the user

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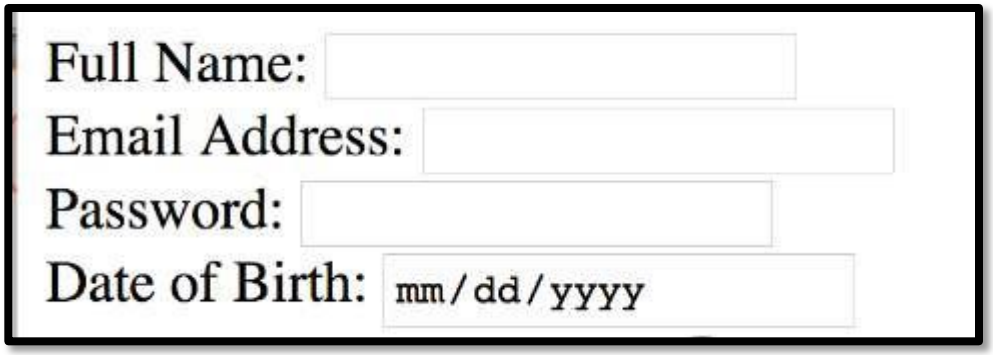
Submit Reset

Forms – Text Inputs



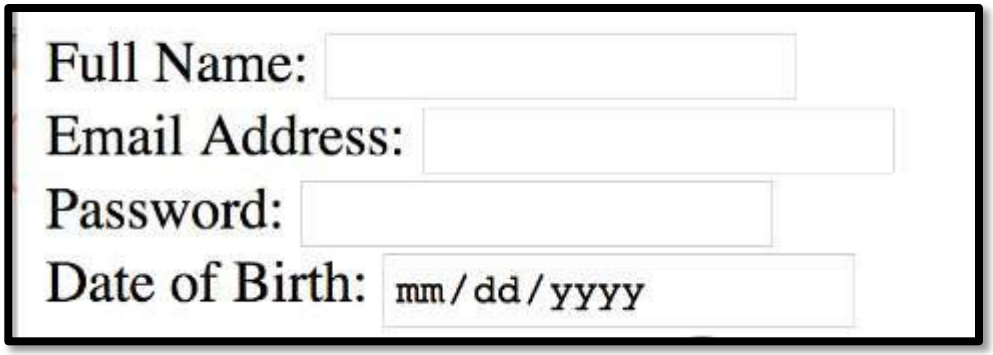

```
<br> Full Name:
<input type="text" name="username">

<br> Email Address:
<input type="email" name="email">

<br> Password:
<input type="password" name="password">

<br> Date of Birth:
<input type="date" name="dob">
```

Forms – Text Inputs

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<br> Full Name:
<input type="text" name="username">

<br> Email Address:
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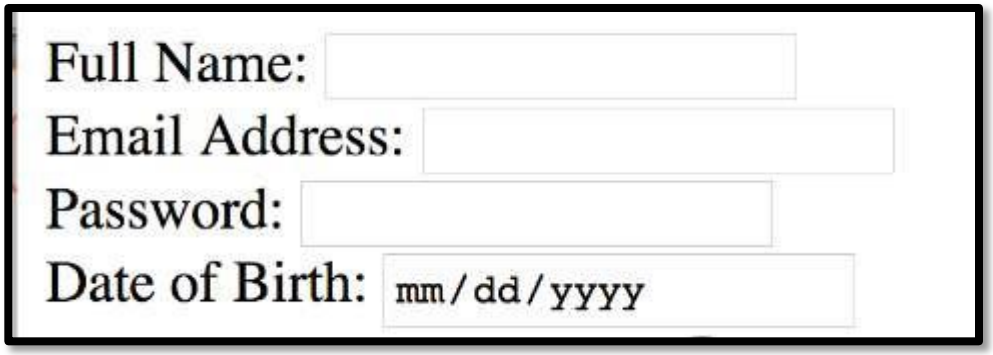
```

Forms – Text Inputs

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```

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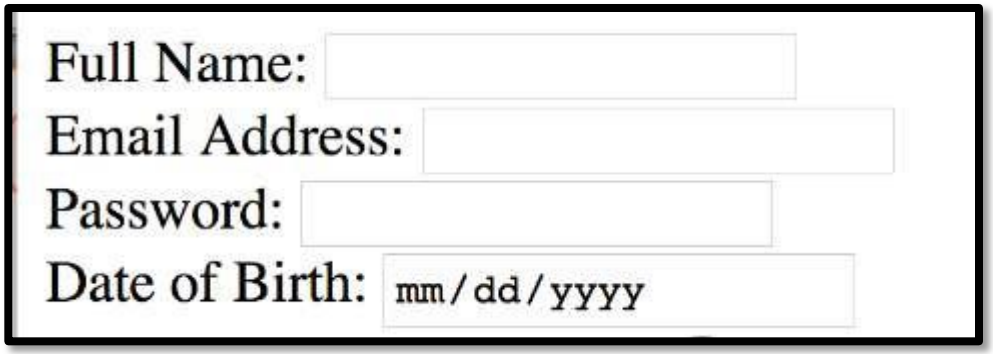


```
<br> Full Name:
<input type="text" name="username">

<br> Email Address:
<input type="email" name="email">

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```
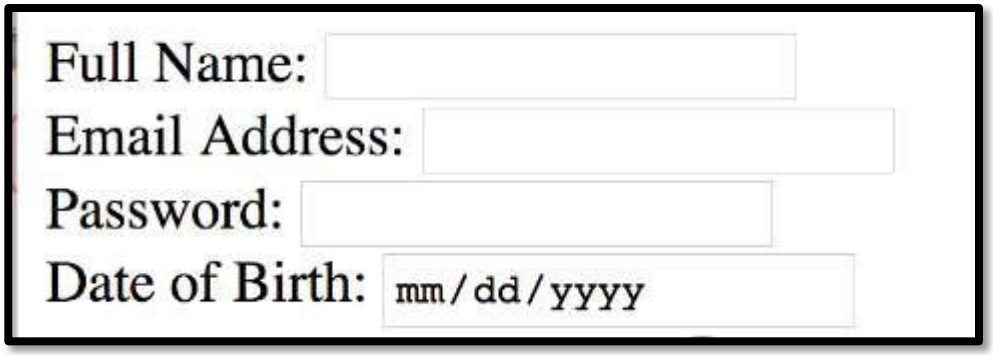

Forms – Text Inputs

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```

Application Form

Full Name:
Email Address:
Password:
Date of Birth: mm/dd/yyyy
Graduation Year:
Phone Number:

Demographics

Gender: Male Female Undisclosed

Race: African American Asian White American Indian Pacific Islander Other

Personal Preferences:

Favorite Color:

Resume Submission: Choose File No file chosen

Submit Reset

Forms – Slider/Range Input

```
<br> Graduation Year:
<input type="range" name="gradYr" min="1950" max="2020">
```

Forms – Slider/Range Input

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<input type="range" name="gradYr" min="1950" max="2020">
```

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Phone Number:

Demographics

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Race: African American Asian White American Indian Pacific Islander Other

Personal Preferences:

Favorite Color:

Resume Submission: Choose File No file chosen

Submit Reset

Forms – Radio Buttons

```
<br> Gender:

<input type="radio"
       name="genderOption"
       value="male"> Male

<input type="radio"
       name="genderOption"
       value="female"> Female

<input type="radio"
       name="genderOption"
       value="undisclosed"> Undisclosed
```

Forms – Radio Buttons

```
<br> Gender:

<input type="radio"
       name="genderOption"
       value="male"> Male

<input type="radio"
       name="genderOption"
       value="female"> Female

<input type="radio"
       name="genderOption"
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Forms – Radio Buttons

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Forms – Radio Buttons

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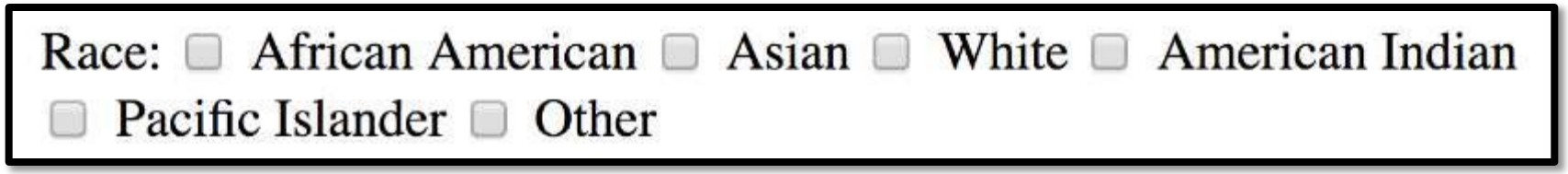
Submit Reset

Forms – Checkboxes




```
<br> Race:

<input type="checkbox" name="race" value="afrAmer"> African American

<input type="checkbox" name="race" value="asian"> Asian

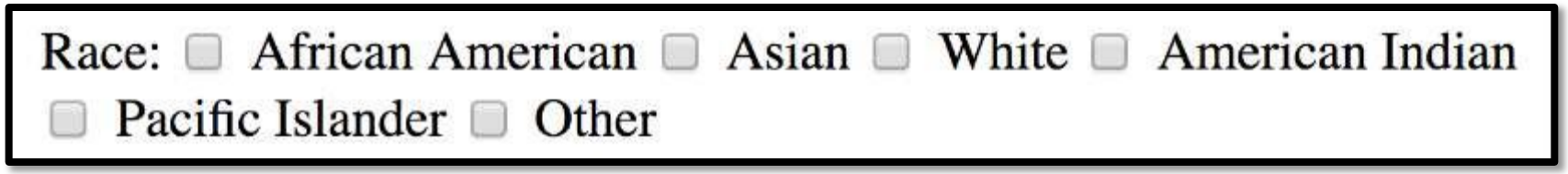
<input type="checkbox" name="race" value="white"> White

<input type="checkbox" name="race" value="amIndian"> American Indian

<input type="checkbox" name="race" value="pacIsl"> Pacific Islander

<input type="checkbox" name="race" value="other"> Other
```

Forms – Checkboxes

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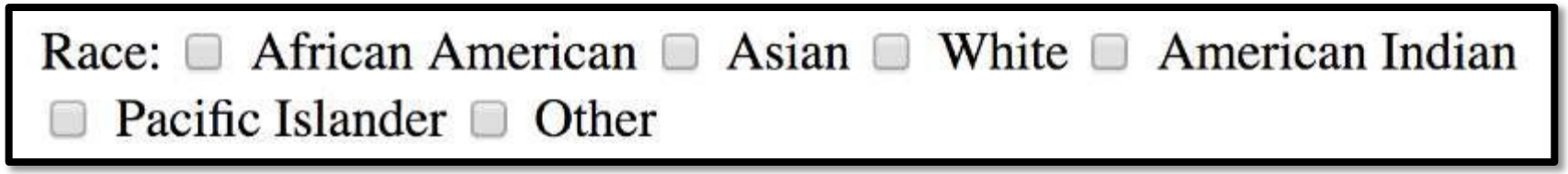


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```

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Date of Birth: mm/dd/yyyy
Graduation Year:
Phone Number:

Demographics

Gender: Male Female Undisclosed

Race: African American Asian White American Indian Pacific Islander Other

Personal Preferences:

Favorite Color:

Resume Submission: Choose File No file chosen

Submit Reset

Forms – Color Chooser

```
<br> Favorite Color:
<input type="color" name="favcolor">
```

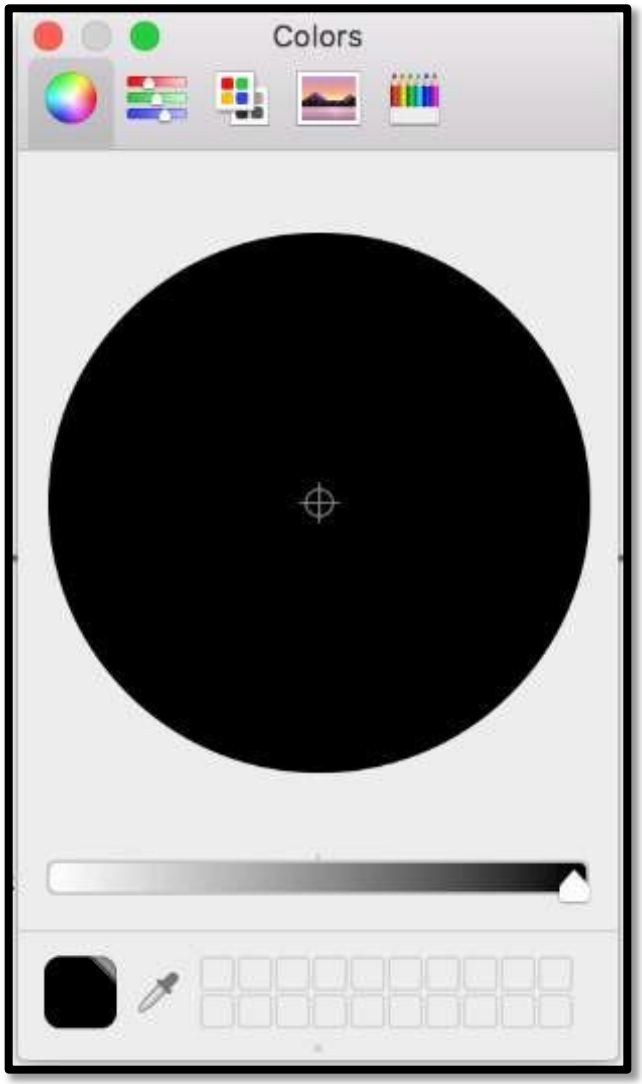
Forms – Color Chooser

```
<br> Favorite Color:
<input type="color" name="favcolor">
```

Forms – Color Chooser

Favorite Color:

```
<br> Favorite Color:
<input type="color" name="favcolor">
```



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Phone Number:

Demographics

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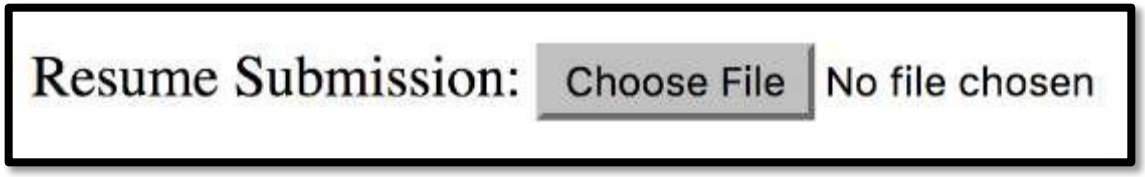
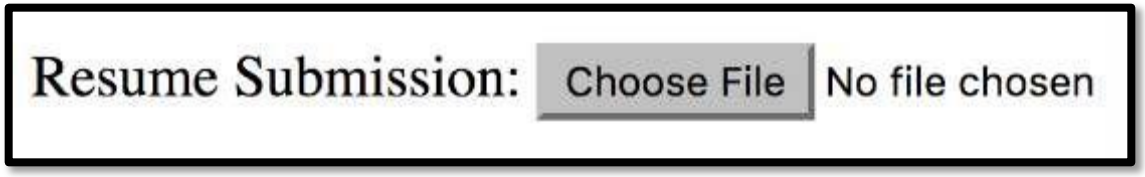
Submit Reset

Forms – File Uploads




```
<br> Resume Submission:
<input type="file" name="resume">
```

Forms – File Uploads




```
<br> Resume Submission:
<input type="file" name="resume">
```

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Date of Birth: mm/dd/yyyy
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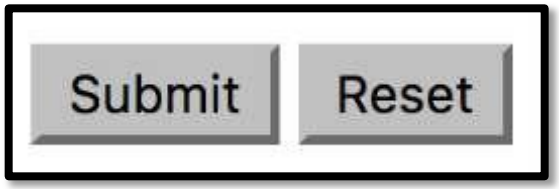
Submit Reset

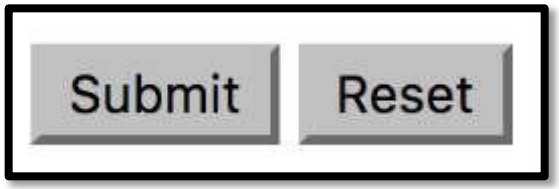
Forms – Buttons




```
<input type="submit" value="Submit">

<input type="reset" value="Reset">
```

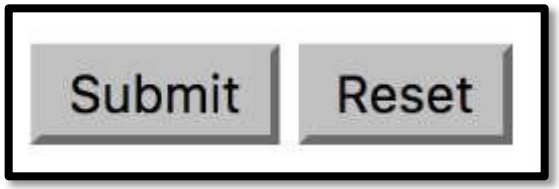
Forms – Buttons




```
<input type="submit" value="Submit">

<input type="reset" value="Reset">
```

Forms – Buttons




```
<input type="submit" value="Submit">

<input type="reset" value="Reset">
```

Forms: Input Types

Type	Form Field
button	Clickable button
checkbox	Checkbox options
color	Color picker
date	Date picker (year, month, day)
email	Email address field
file	File select/browse for file uploading
hidden	Hidden input field
image	Allow image to serve as submit button
month	Month and year control
time	Time control

Type	Form Field
number	Number format entry
password	Masked characters for password entry
radio	Radio button options
range	Slider control to enter number as a range
reset	Reset all form values to default values (button)
search	Text field for searching
submit	Submit button
tel	Phone number input
text	Plaintext field
url	Field for URL

Summary

- HTML **lists** allow us to organize information in an HTML page and specify the appearance

- HTML **forms** allow us to accept input from the user