HTML Forms

COMP1017
Web Design & Fundamentals I

Why Forms?

Almost every website has some type of form, whether it's a:

- contact form
- search
- email subscription
- and so many more...

These are all examples of forms. Forms allow the user to interact with a website/application to send a message, get a quote, sign-up, etc.

Defining Forms

All HTML forms must start with the form element <form>.

The form tag <form></form>:

- Defines a form
- Optional attributes but it's best to set the following two attributes:
 - action: defines where the submitted data will be sent,
 - method: defines which http request method is used (GET or POST)

Form Elements

All HTML forms contain form elements, which are different types of input elements such as:

- ☐ input
- Textarea
- **⊒** Label
- Checkbox
- Radio buttons
- ☐ Fieldset
- Submit
- Button

- Legend
- → Select
- Option
- Optgroup
- ☐ Datalist (new to HTML5)
- Output (new to HTML5)

Form Elements

The input **<input/>** is the **most important** form element. It can be displayed in multiple ways pending on the **type attribute** and the value it is given.

```
<input type= "text" name= "firstname" />
<input type= "email" name= "email" />
<input type= "radio" name= "puppy" value="husky" />
<input type= "radio" name= "puppy" value="lab" />
```

The type attribute defines and controls the way input element behaves

Input Types

All forms will contain at least 1 form element, which will have a minimum of 1 input type attribute

button

☐ file

email

reset

☐ hidden

password

number

image

→ checkbox

□ tel

month

⊒ submit

url url

■ week

□ radio

search

☐ And so many more...

¬ range

□ time

□ min

color

山 max

date

If an input doesn't have type attribute, the input will default to type: text

Form Attributes

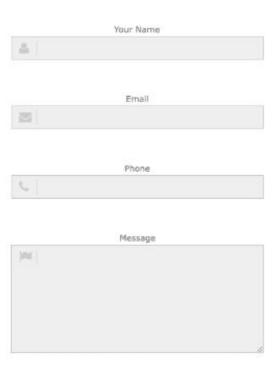
The **input** element is powerful and complex and can use a combination of different type and attributes. We we will be using **name**, **type**, **value** and **placeholder** attributes.

- \Box name \Box Name: used to specify a name for the input field.
- □ type □ Type: defines and controls the input field behaviour
- ☐ value ☐ Value: specifies what the input field values are. (used especially with radio and checkboxes)
- placeholder
 Placeholder: describes/hints at the expected value for the field
- ☐ disabled ☐ Disabled: disables a form field
- required Required: The user must complete the field before submitting.

Let's say for example you are given a psd mockup with a form, how are you going to layout the form in HTML?

Let's start by evaluating what form fields are in the mockup and go from there.

What fields are you given?



send

What fields are you given?

- Label
- Name
- Email
- Phone
- Message
- Submit

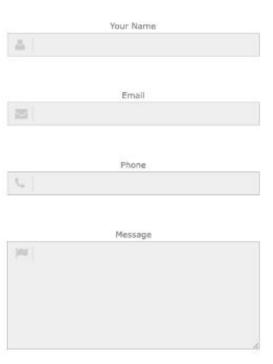
Email Phone Message send

Your Name

What type of form elements are these?

What type of form elements are these?

- Label <label for= "name">Your Name</label>
- Name <input type= "text" name= "name" />
- Email <input type= "email" name= "email" />
- Phone <input type= "text" name= "phone" />
- Message <textarea name= "message" > </textarea>
- □ Submit <input type= "submit" name= "submit" value= "send" />



send

Remember that when we are starting to code an form we start with the form element <form></form>.

<form id= "contact-form" action= "" method= "POST">

<!-- form elements here -->

</form>

This will start our form, next we can add in all of our form elements

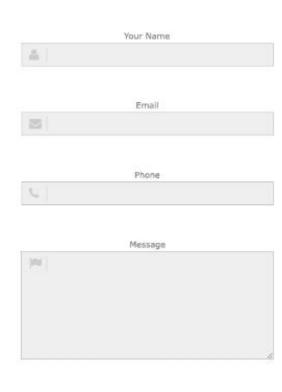


Laying out Forms <input>

Wait, what do you notice about the label and the input tag?

They are inline elements, which mean they will sit side-by-side.

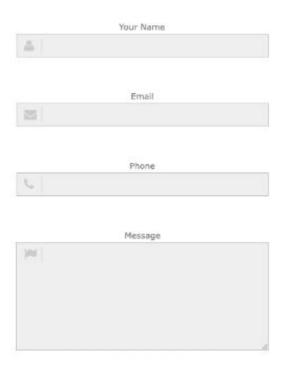
Let's continue to laying out the rest of your form elements.



send

Laying out Forms - <textarea>

You've laid out all of your input element up to the large message area. How do I add that? Do you remember the <textarea> element?



Laying out Forms - submit

We have our form built fields all built but we are missing one very important detail, the submit button. This can be written using an **<input>** element

Styling Forms

Styling Forms

Our form looks pretty sad, it needs some CSS styling applied!

Just like we can style an h1 element. We will be styling our form and its elements.

We can style our forms using attributes.

Wait... what.. how?

Your Name	•	
Email	2 1 2	
Phone		
Message		
3.00	Send	

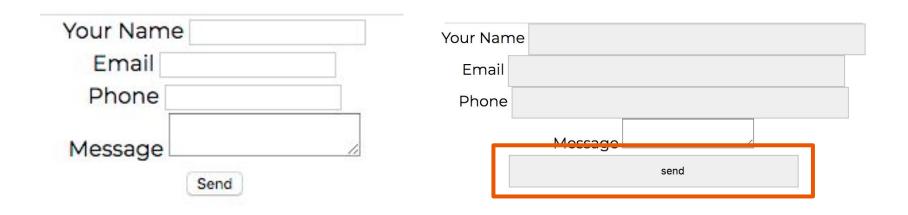
Styling Forms

Let's start by styling our **<input>** elements. Looking at our psd, we can see that all of our **<input>** elements have the same styling! Let's go and style those elements!

In our HTML:

In our CSS:

```
input{
    /** CSS goes here - go
through your psd to find out
what CSS declarations you will
use. **/
}
```



The form has gone from default styling to having some styling, however what I do notice is that my submit button looks like the other input fields. why?

That's because it is an **<input>** element. We can style this **<input>** one of two ways. We can either use a **class** and target the **<input>** or we can use it's **type** attribute.

Styling with a class selector

```
HTML:
<form id= "contact-form" action= "" method= "POST">
    <div class= "submit-button">
        <input id= "submit" type= "submit" name= "submit" value= "Send" >
    </div>
</form>
CSS:
.submit-button input{
    /** CSS goes here **/
```

Styling with a type attribute

```
HTML:
<form id= "contact-form" action= "" method= "POST">
    <div class= "submit-button">
         <input id= "submit" type= "submit" name= "submit" value= "Send" >
    </div>
</form>
CSS:
input[type=submit]{
    /** CSS goes
here **/
```

Styling with a textarea

Textarea by default is horizontal and vertically expandable. We can change those by using the property *resize* or by adding min and max width or height to the textarea.

resize has the following values: both | horizontal | vertical | none | inherit

Taking what you just learned about forms, let's finish the exercise as a class.

In-Class Lab: Forms!

Sources

- Your notes and exercise
- ☐ This slide deck
- https://developer.mozilla.org/en-US/docs/Learn/HTML/Forms
- https://developer.mozilla.org/en-US/docs/Learn/HTML/Forms/Your_first_HTML_form
- https://developer.mozilla.org/en-US/docs/Learn/HTML/Forms/How_to_structure_an_HTML_form
- https://css-tricks.com/almanac/properties/r/resize/
- ☐ Google:)