# DevX HTML/CSS

Class 11 - Forms and Inputs

#### Review

#### We learned about *User Interface Design*:

- Three key areas:
  - Information Architecture
  - Visual Design
  - Interaction Design
- Information Architecture
  - Organizing, simplifying, and managing user interaction/information processing
- Visual Design
  - Balance: Symmetry, asymmetry, & radial
  - Consistency, Whitespace, Scale,
     Proportion, Golden Ratio, Movement

- Interaction Design
  - Target Audience, Psychographics,
     Understanding the Industry
- Information Density
- Layouts and Hierarchy
- Fonts & Typography
  - Serif, sans-serif, script fonts.
  - Primary and secondary typefaces
- Iconography
  - Menu icons
  - Icon choices

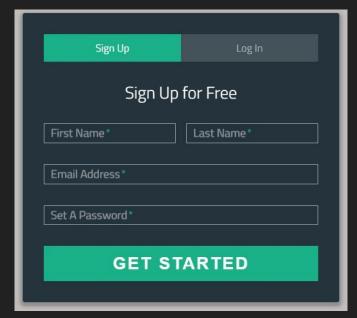
## Forms

#### **Forms**

Forms collect data on the web. You see them everywhere.

Any website that can receive input data has a form.

You will use them more when learning Javascript. For now, we will learn their structure and syntax.





#### Forms Syntax

<form>

- (1) A <form> tag on the outside
- (2) <a href="mailto:label"><a href="mailto:label">mailto:label"><a href="mailto:label">mailto:label"><a href="mailto:label">mailto:label"><a href="mailto:label">mailto:label">mailto:label"><a href="mailto:label">mailto:label
- (3) (Optional) Other tag types inside.

</form>

<a href="color: blue;"><label></a> provide context to the form fields.

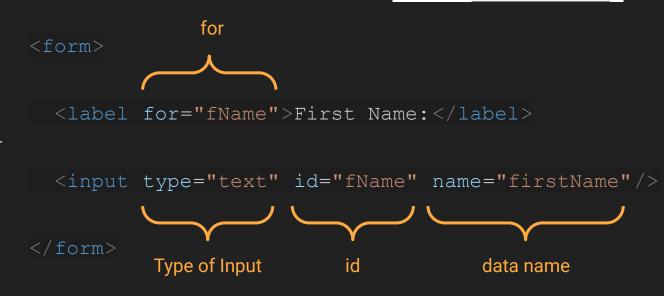
Visible Text

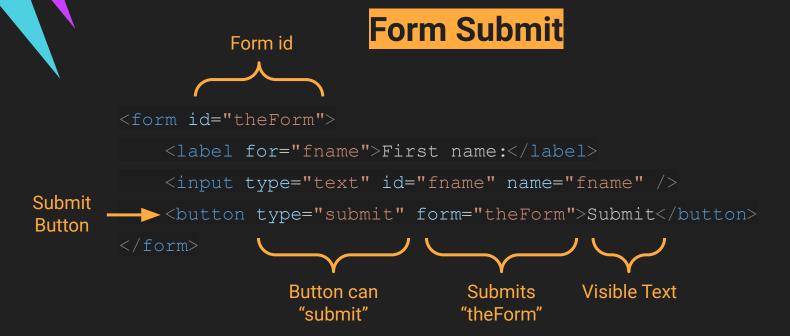
First name:

#### Forms Syntax

First name:

- (1) The <label> links with the <input> by linking the "for=" attribute with the "id=" attribute.
- (2) The <input>'s "name=" attribute labels the input data for storage. (More on this later)
- (3) The <input>'s "type=" attribute decides whether the input is a text box, radio button, etc.



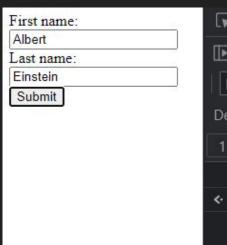


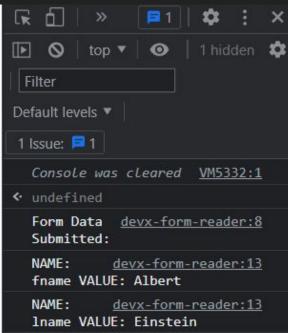
We've added a button to the form from the last page. The button allows us to "submit" the form. That is to say, it collects the data and sends it somewhere.

By default, this redirects the page. But there are ways to prevent that, and observe the data.

#### **Form Data**

<script src="https://tinyurl.com/devx-form-reader"></script>





For this class I made a little form-reading script. It uses Javascript, which we aren't covering in this class. But that's OK, we can still use it to learn about forms.

When this <script> is added to a page, submitting a form will display the data in the inspector's console.

You can get to the inspector by right-click on the page and picking "inspect".

Or CTRL + SHIFT + "i".

Or CMD + SHIFT + "i" for Mac.

## **Activity: Make a Form**

#### Activity: Make a Form

We're going to make a simple form page!

And use a tiny bit of Javascript to read the form data.

```
(1) Ope
(2) Put
boi
(3) Ope
```

```
Open a boilerplate HTML file
Put this content in the
boilerplate HTML file
Open with live server
```

- (4) Add some data to the form,
- (5) Click Submit.

<script src="https://tinyurl.com/devx-form-reader"></script>

#### Activity: Make a Form (2)

Let's add some additional fields to the form. Radio buttons!

```
<input type="radio" id="html" name="favoriteLanguage" value="HTML" />
<label for="html">HTML</label><br />
<input type="radio" id="css" name="favoriteLanguage" value="CSS" />
<label for="css">CSS</label><br />
<input
  type="radio"
                                              Notice they have type="radio".
 id="javascript"
 name="favoriteLanguage"
                                            Also the labels are after the button.
 value="JavaScript"
<label for="javascript">JavaScript</label>
```

#### Activity: Make a Form (3)

Now let's try a phone field!

Don't worry about the "pattern" attribute. You can google various ways to handle a phone "pattern".

Also, you'll learn more about how to write them when you learn Javascript.

```
<br />
<label for="phone">Enter your phone number (### ### ####) 
<input
  type="tel"
                                                           This is called Regex. We'll learn it later, in
                                                            Javascript. For now, just copy/paste it.
  id="phone"
  name="phone"
  pattern="[0-9]{3}[\s-]+[0-9]{3}[\s-]+[0-9]{4}"
```

#### Activity: Make a Form (4)

Now try it yourself! Go online and find another type of input field to use in the form.

Try this resource on W3Schools:

https://www.w3schools.com/html/html\_forms.asp

https://www.javatpoint.com/html-form-input-types

Some suggestions:

Color

Password

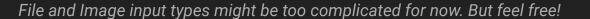
- Date
- Reset

• Email

- Checkbox
- Number
- Search

Url

Tel



## Other Form Elements

#### Select

Select is used when you want to make a dropdown menu.

The tag requires both a specific structure, and the value attribute on the inner items.

The <option> tags need to be inside the <select> tag, and there can be multiple.



```
<select name="cars" id="cars">
    <option value="volvo">Volvo</option>
    <option value="saab">Saab</option>
    <option value="mercedes">Mercedes</option>
    <option value="audi">Audi</option>
</select>
```

## **Activity: Select**

#### **Activity: Select**

Let's make a select dropdown!

Copy this format, and change the values!

```
<select name="cars" id="cars">
   <option value="volvo">Volvo</option>
   <option value="saab">Saab</option>
   <option value="mercedes">Mercedes</option>
   <option value="audi">Audi</option>
</select>
```

Show how to do vsCode boilerplate HTML document. Try out some tags.

#### **Tables**

```
Company
 Contact
 Country
Amazon
 Maria Anders
 USA
Tencent
 Li Chang
 China
```

Tables are... tables. They have rows and columns. They are not used that often, and you can look up the structure when you need to.

They have a complex structure of tags:

- The outer table.
- Table Row
- Table Header
- Table Data

Company	Contact	Country
Amazon	Maria Anders	USA
Tencent	Li Chang	China

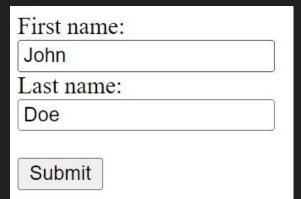


#### **Forms**

Forms can be very complex. They combine groups of <input> tags into a dataset. They are everywhere on the internet.

We'll have a class on them later, as they are a bigger topic. They usually involve Javascript.

```
<form action="/">
  <label for="firstName">First name:</label><br>
  <input type="text" id="firstName" name="firstName" value="John"><br>
  <label for="lastName">Last name:</label><br>
  <input type="text" id="lastName" name="lastName" value="Doe"><br>
  <input type="submit" value="Submit">
  </form>
```







Google forms are another way to add some functionality to your webpages without too much code.

Google has created an online tool that allows you to use, share, and add forms to webpages with just a little bit of HTML code.

I would consider using Google forms for small projects, but not for larger ones. In those cases you probably want to use a custom for with custom styling.

https://www.google.com > forms > about

#### Google Forms: Online Form Creator | Google Workspace 📀



Use Google Forms to create online forms and surveys with multiple question types. Analyze results in real-time and from any device.

From there, "Go to Forms"

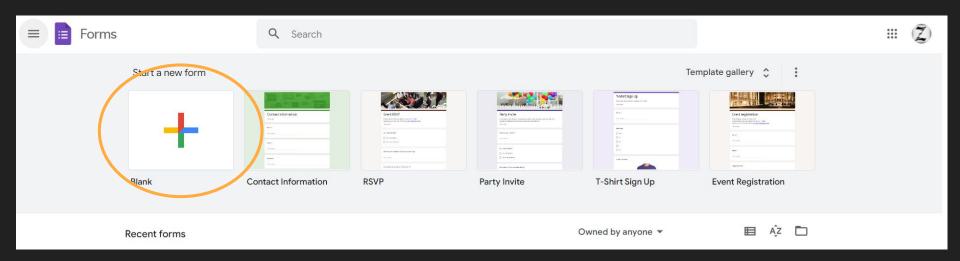


### Get insights quickly, with Google Forms

Easily create and share online forms and surveys, and analyze responses in real-time.

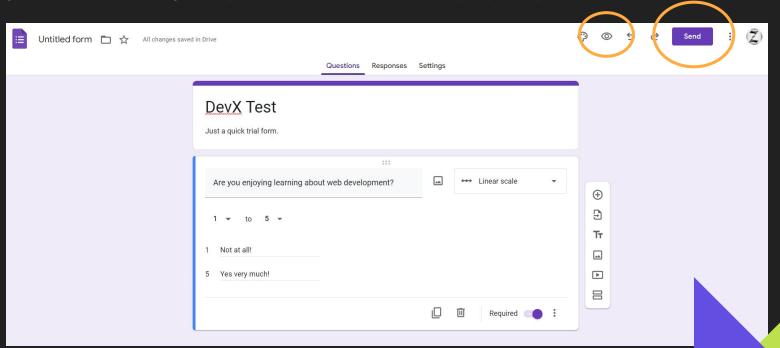
Try Forms for Work Go to Forms

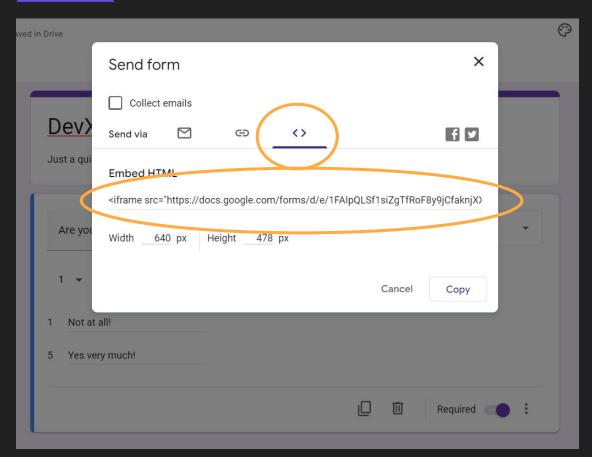
Choose a form type that fits your needs. Try "Blank" for now.



Here you can build the questions. It takes a little time to get used to all the possible settings.

When you are done, the eye to "preview" or click "Send" top open up a modal.



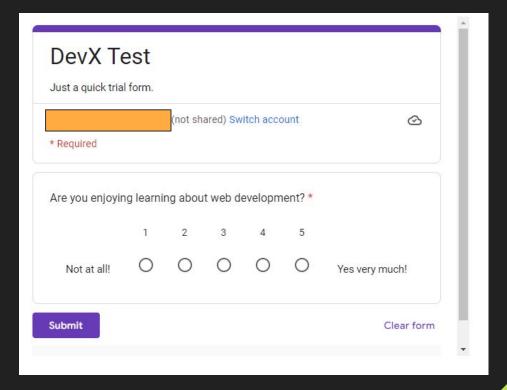


In this modal, you can click on the "Embed" icon, then copy the <iframe> tag provided.

#### <iframe src="https://docs.googl e.com/forms/d/e/1FAIpQLSf1s iZqTfRoF8y9jCfaknjXXOX4BJGz WIvqPKCiy PI5701ow/viewform ?embedded=true" width="640" height="478" frameborder="0" marginheight="0" marginwidth="0" Loading... </iframe>

#### Google Forms

Add the <iframe> to your HTML file and boom! You have a form.



## Activity: Make a Google Form

#### Activity: Make a Google Form

This time we're going to use a google form.

Follow the steps from the previous slides.

- 1. Sign into google (if you haven't)
- 2. Search for Google Forms
- 3. Go to the Google Forms site
- 4. Go to Forms
- 5. Create a blank form
- 6. Create a few questions
  - a. Multiple Choice
  - b. Short Answer
  - c. Linear Scale

- 7. "Preview" the form (to check)
- 8. "Send" the form
- 9. Find the "embed" tab
- 10. Copy the "embed" HTML tag
- 11. Create an HTML file
- 12. Add the HTML tag to the file
- 13. Live-Server and fill out/submit the form
- 14. Back on the form page, check your "Responses"

