

A dark gray background featuring four abstract 3D shapes. On the left, a large, light beige shape with a dark circular cutout and a blue spiral base is partially visible. In the top left corner, there's a teal-colored shape composed of two nested, rounded forms. In the top right corner, a yellowish-brown shape is formed by a cluster of small, rounded spheres. The word "WELCOME!" is centered in large, white, sans-serif capital letters.

**WELCOME!**

p

strong

b

i

em

sup

sub

ul

ol

li

a

img

table

tr

td

th

caption

tbody

thead

tfoot

input

form

button

label

textarea

span

div

select

option

fieldset

legend

audio

video

nav

body

head

footer

header

aside

main

# The Web

The World Wide Web is an information system where documents are available over the Internet.

These documents are transferred over HTTP



**Hyper  
Text  
Transfer  
Protocol**



# HTTP

HTTP is a formally defined set of rules for communication between a client (requester) and a server(responder)

That's really all you need to know.





**Please send me whatever  
information you have at  
<http://www.reddit.com>**



Please send me whatever  
information you have at  
<http://www.reddit.com>



Ok, here's the document  
that you requested!

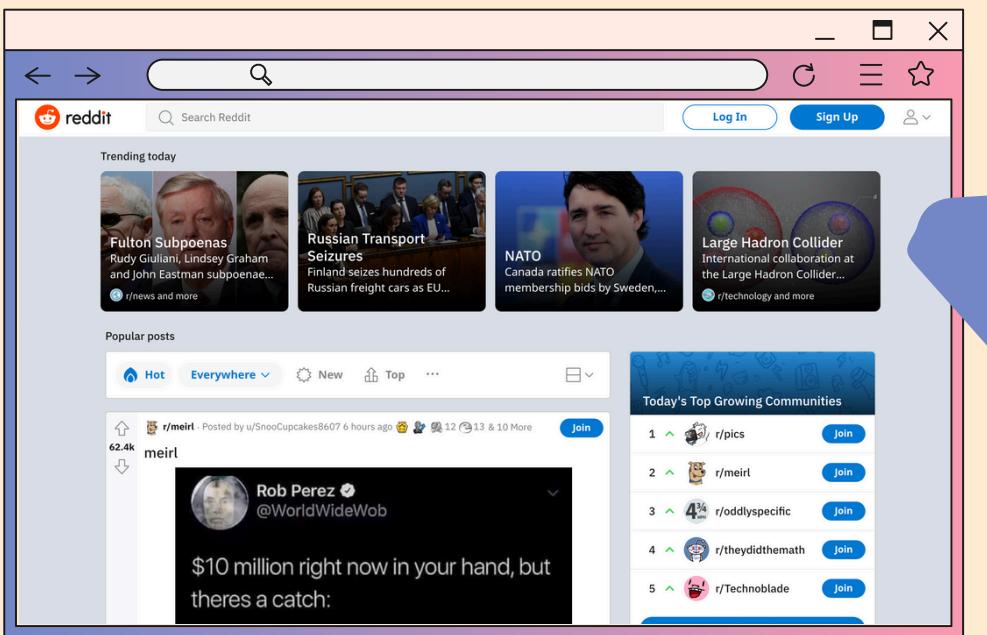


# Reddit Server

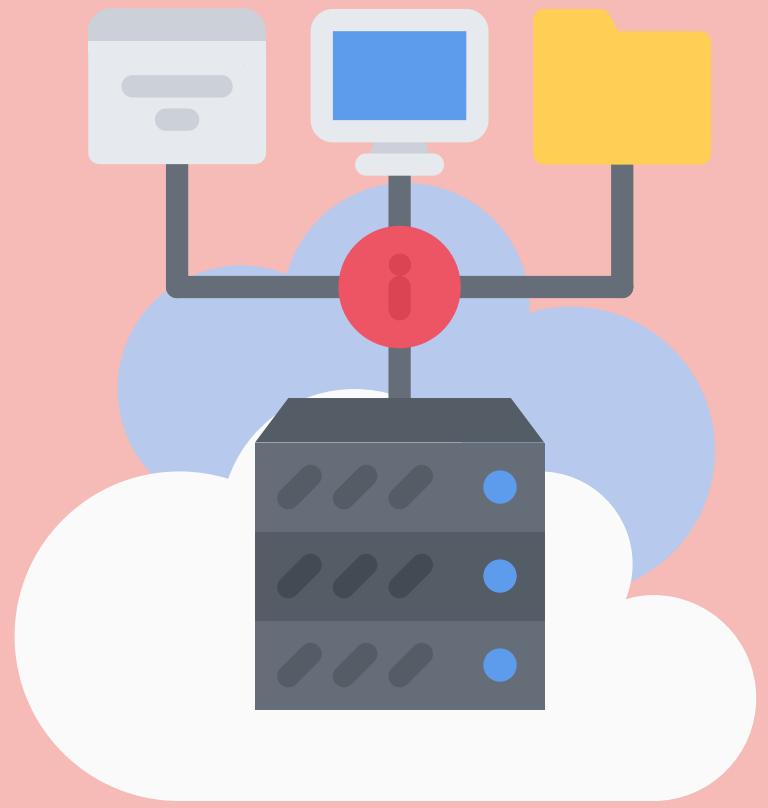
HTTP Request



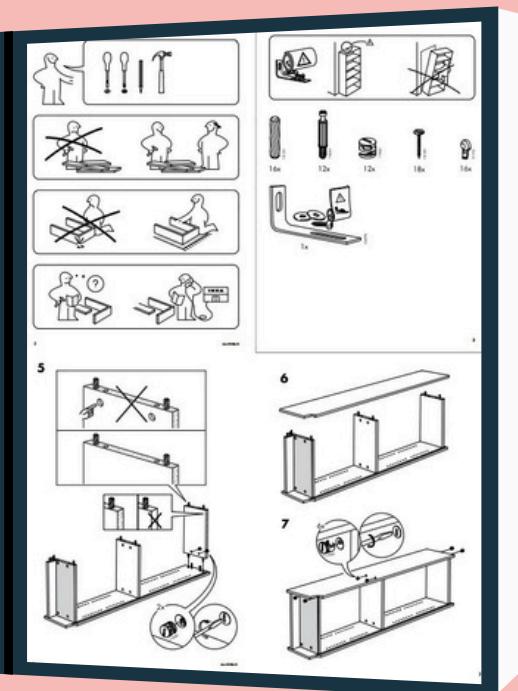
HTTP Response



# A SERVER SOMEWHERE



Here are the instructions!



# YOUR BROWSER



Look What I Made!



# HTTP Response

A typical webpage consists of code written in HTML, CSS, and JavaScript, but it's not a rule that all 3 must be used!

# HTML

The content on a page

# CSS

The styles applied to the page content

# JS

The behavior or action of the page's contents

**HTML** Nouns

**CSS** Adjectives

**JS** Verbs

# THE GREEN ALIEN DANCES

CSS – The Adjectives

HTML – The Nouns

JS – The Verbs



# Installation

## It couldn't be easier!

There is no "installing" HTML or CSS.  
Instead we install an editor to write code in ,  
and a browser to render our code



# Chrome

Or any similar modern  
web browser will do



# VS Code

Or any other code editor  
(VScode is great and free)



Hyper  
Text  
Markup  
Language



# HTML IS A MARKUP LANGUAGE

Colt, please see me after  
class. This is plagiarized.

To see a World in a Grain of  
Sand. And a Heaven in a Wild  
Flower Hold Infinity in the  
palm of your hand - And  
Eternity in an hour - A Robin  
Red breast in a Cage - Puts  
all Heaven in a Rage A Dove  
house *filld* with Doves &  
*Spelling* Pigeons

# Predictors of Pneumonitis in Combined Thoracic Stereotactic Body Radiation Therapy and Immunotherapy

Mark C Korpics 1, Rohan R Katipally 1, Julien Partouche 1, Dan Cutright 1, Kelli B Pointer 1, Christine M Bestvina 1, Jason J Luke 2, Sean P Pitroda 1, James J Dignam 3, Steven J Chmura 1, Aditya Juloori 4

## Affiliations

PMID: 35753553 DOI: 10.1016/j.ijrobp.2022.06.068

[Full text links](#) [Cite](#)

## Abstract

**Purpose:** Thoracic stereotactic body radiation therapy (SBRT) is associated with high rates of local control but carries a risk of pneumonitis. Immunotherapy is a standard treatment for patients with metastatic disease but can also cause pneumonitis. To evaluate the feasibility and safety of thoracic SBRT with systemic immunotherapy, clinical outcomes of patients treated with immune checkpoint blockade (ICB) and SBRT on prospective trials were reviewed.

**Methods and materials:** Three consecutive phase 1 trials of combination SBRT and ICB conducted between 2016 to 2020 for widely metastatic solid tumors were reviewed. The protocols mandated adherence to NRG BRO01/BRO02 organs at risk constraints, resulting in <100% coverage of some target volumes. ICB was administered either sequentially (within 7 days after completion of SBRT) or concurrently (before or at the start of SBRT), depending on protocol. End points included pneumonitis, dose-volume constraints, local failure, and overall survival. The cumulative incidence estimator and Kaplan-Meier method were used.

**Results:** In the study, 123 patients met eligibility with 311 metastases irradiated. The most common histologies included non-small cell lung cancer (33%) and colorectal cancer (12%). Median follow-up was 12 months. The overall rate of grade 3+ pneumonitis was 8.1%; 1-year local failure was 3.6%. Established dosimetric parameters were significantly associated with the development of pneumonitis ( $P < .05$ ). In most patients, the lungs were not challenged with high doses of radiation, defined as receiving  $\geq 75\%$  of the maximum for a given lung dose-volume constraint. Patients who were challenged were not found to have a significantly higher risk of pneumonitis.

Heading

Links

Another  
Heading

Small  
heading?

Bold?

# Predictors of Pneumonitis in Combined Thoracic Stereotactic Body Radiation Therapy and Immunotherapy

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Affiliations + expand

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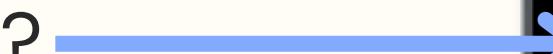
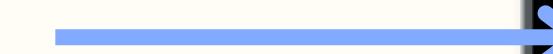
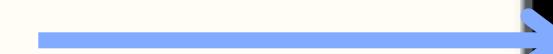
## Abstract

**Purpose:** Thoracic stereotactic body radiation therapy (SBRT) is associated with high rates of local control but carries a risk of pneumonitis. Immunotherapy is a standard treatment for patients with metastatic disease but can also cause pneumonitis. To evaluate the feasibility and safety of combining thoracic SBRT with systemic immunotherapy, clinical outcomes of patients treated with immunotherapy and SBRT were reviewed.

**Methods and materials:** Three consecutive phase 1 trials of combination SBRT and ICB between 2016 to 2020 for widely metastatic solid tumors were reviewed. The protocols adhered to NRG BR001/BR002 organs at risk constraints, resulting in <100% coverage of target volumes. ICB was administered either sequentially (within 7 days after completion of SBRT) or concurrently (before or at the start of SBRT), depending on protocol. End points included pneumonitis, dose-volume constraints, local failure, and overall survival. The cumulative incidence estimator and Kaplan-Meier method were used.

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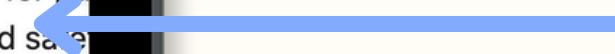
**Conclusions:** In the largest series of thoracic SBRT and immunotherapy, local control was achieved with acceptable toxicity and support the conclusion that established dose-volume constraints for the lung are safe. However, these results highlight the potential value in reporting of or-



Supertext



Paragraph  
of text



# Markup Language

"Make this text a link"

"Make this a heading"

"Make this a paragraph"

## Predictors of Pneumonitis in Combined Thoracic Stereotactic Body Radiation Therapy and Immunotherapy

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Affiliations + expand

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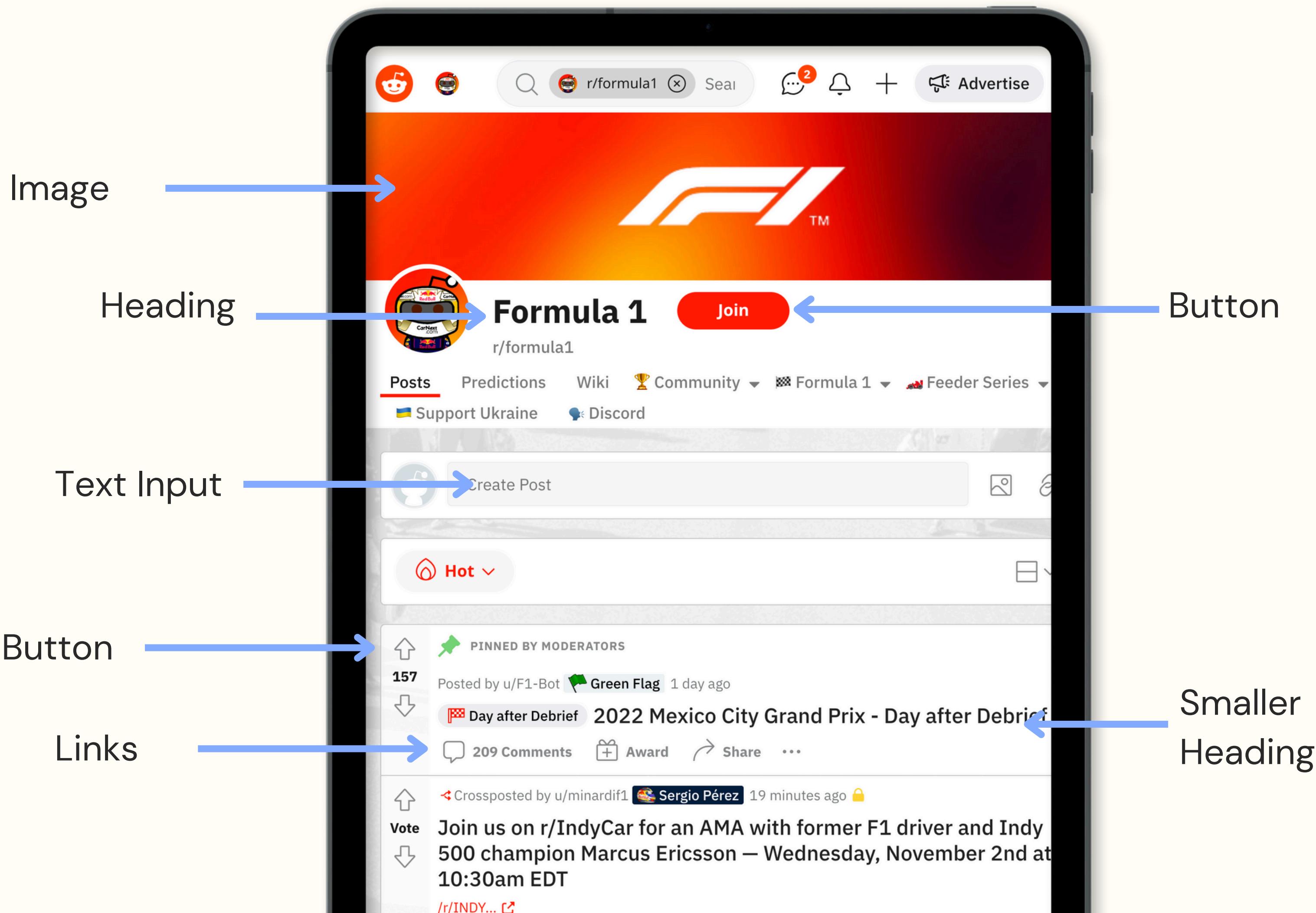
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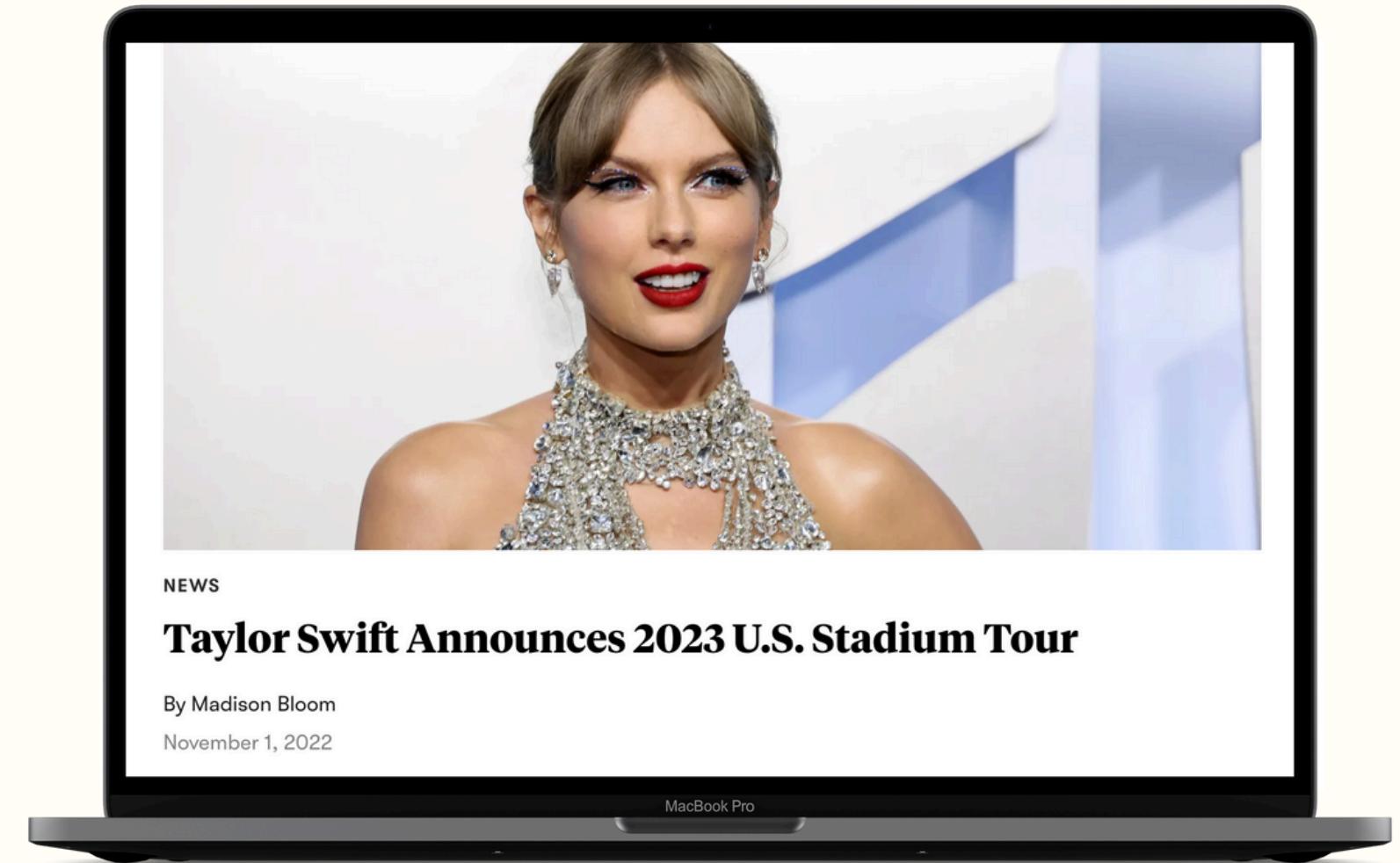
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**Conclusions:** In the largest series of thoracic SBRT and immunotherapy, local control was achieved with acceptable toxicity and support the conclusion that established dose-volume constraints for the lung are safe. However, these results highlight the potential value in reporting of organ-specific



```
<div>
  
  <a href="/news">
    <span>News</span>
  </a>
  <a href="/news/ts-announces-2023">
    <h3>Taylor Swift Announces
      2023 U.S. Stadium Tour</h3>
  </a>
  <span>By Madison Bloom</span>
  <time>November 1, 2022</time>
</div>
```



# HTML Code

# Rendered In Browser

Markup

```
<div>
  
  > <a href="/news">
    <span>News</span>
  </a>
  <a href="/news/ts-announces-2023">
    <h3>Taylor Swift Announces
    2023 U.S. Stadium Tour</h3>
  </a>
  <span>By Madison Bloom</span>
  <time>November 1, 2022</time>
</div>
```

Text  
Content

# HTML Elements

There are 100+ HTML elements. Here are some common ones:

h1

h2

h3

h4

h5

h6

img

div

a

li

ul

ol

head

body

main

nav

form

table

input

table

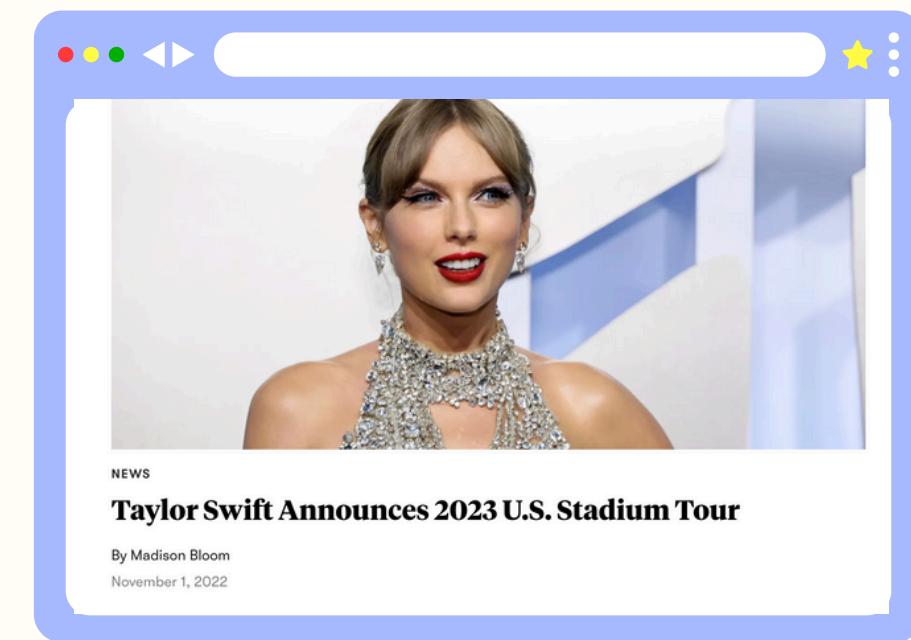
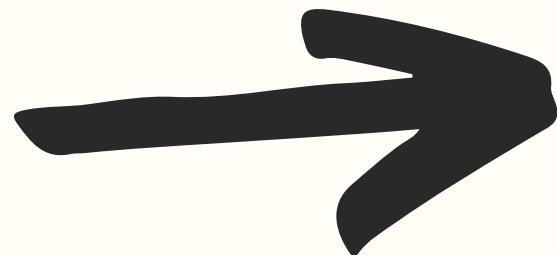
video

span

b

i

# The HTML Workflow



## write code in a file

Write your code in an HTML file using an editor like VSCode

## open the file in a browser

Open the file using your browser (Chrome) to view the rendered result.

# Paragraphs



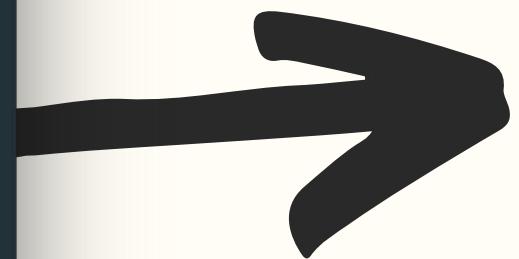
```
<p>The giant clams are the members of the  
clam genus Tridacna that are the largest  
living bivalve mollusks. There are actually  
several species of "giant clams" in the  
genus Tridacna.</p>
```

**Use the paragraph element to  
represent a... paragraph of text.**



<p>The giant clams are the members of the clam genus Tridacna that are the largest living bivalve mollusks. There are actually several species of "giant clams" in the genus Tridacna.</p>

<p>The giant clam lives in flat coral sand or broken coral and can be found at depths of as much as 20 m (66 ft).[5] Its range covers the Indo-Pacific, but populations are diminishing quickly, and the giant clam has become extinct in many areas where it was once common.</p>

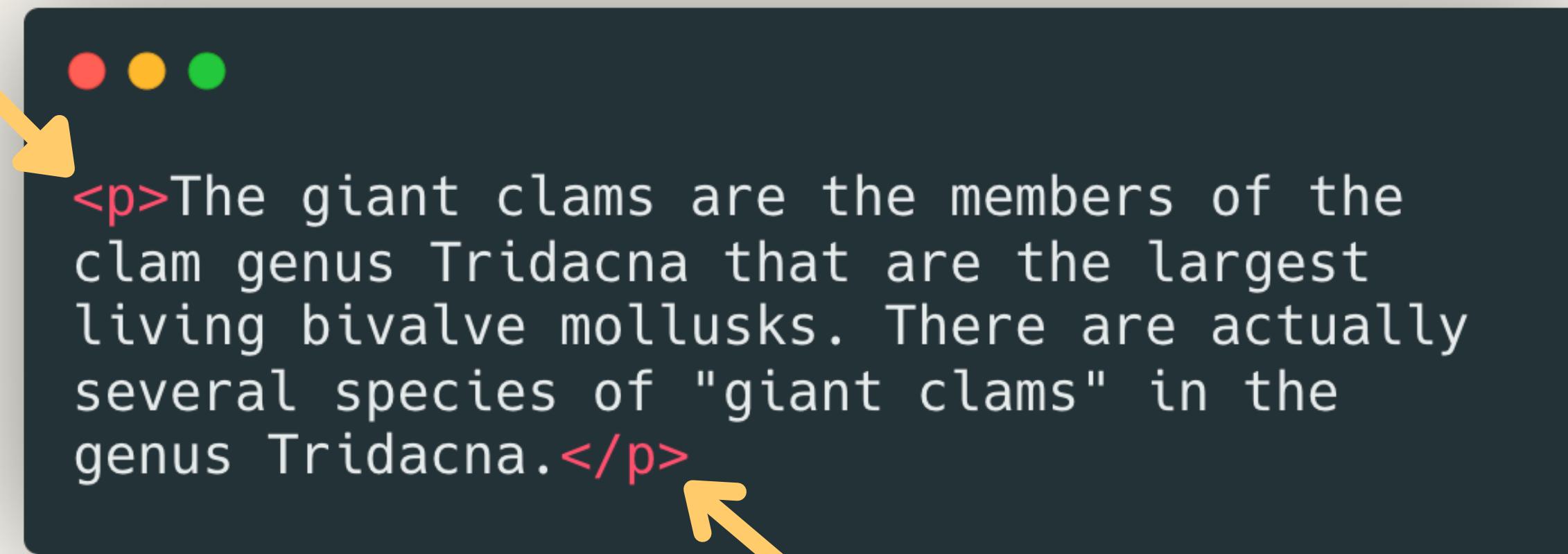


The giant clams are the members of the clam genus Tridacna that are the largest living bivalve mollusks. There are actually several species of "giant clams" in the genus Tridacna.

The giant clam lives in flat coral sand or broken coral and can be found at depths of as much as 20 m (66 ft).[5] Its range covers the Indo-Pacific, but populations are diminishing quickly, and the giant clam has become extinct in many areas where it was once common.

MacBook Pro

## Opening Tag



• • •

<p>The giant clams are the members of the clam genus Tridacna that are the largest living bivalve mollusks. There are actually several species of "giant clams" in the genus Tridacna.</p>

## Closing Tag



# Chrome Inspector

An incredibly useful,  
must-know developer tool!



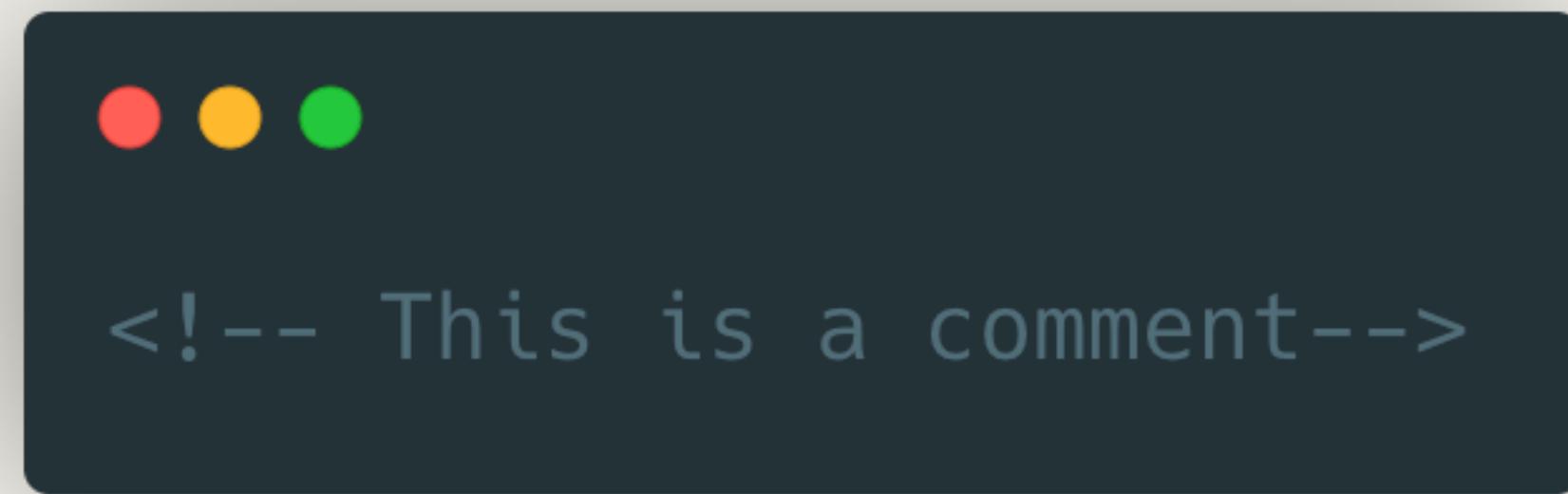
# Document Structure

We've been doing it wrong!



```
<!DOCTYPE html>
<html>
<head>
    <title>My Document</title>
</head>
<body>
    <!-- content goes here -->
</body>
</html>
```

# Comments



**Browsers will ignore any code wrapped in comment tags. Use comments to write notes in your code or to temporarily disable elements**

# Headings

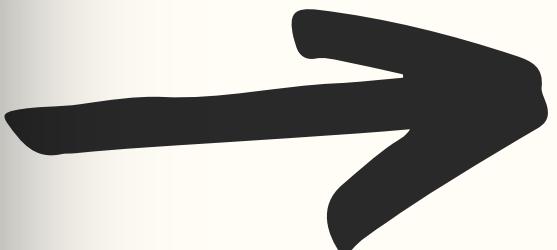


```
<h1>I Am A Level 1 Heading</h1>
<h2>I Am A Level 2 Heading</h2>
<h3>I Am A Level 3 Heading</h3>
<h4>I Am A Level 4 Heading</h4>
<h5>I Am A Level 5 Heading</h5>
<h6>I Am A Level 6 Heading</h6>
```

Use the h1-h6 tags to create section headings  
and add structure to your document



```
<h1>I Am A Level 1 Heading</h1>
<h2>I Am A Level 2 Heading</h2>
<h3>I Am A Level 3 Heading</h3>
<h4>I Am A Level 4 Heading</h4>
<h5>I Am A Level 5 Heading</h5>
<h6>I Am A Level 6 Heading</h6>
```



# I Am A Level 1 Heading

**I Am A Level 2 Heading**

**I Am A Level 3 Heading**

**I Am A Level 4 Heading**

**I Am A Level 5 Heading**

**I Am A Level 6 Heading**

We use headings for

**STRUCTURE**

instead of font size

# Exercise



# Strong



```
<p>Whatever you do, <strong>do not let the cats out</strong></p>
```

Whatever you do, **do not let the cats out**

Use the strong element for text that has special significance. Browsers will display it as bold, but you can change this via CSS.

# Emphasis



```
<p>"Just <em>do</em> it already!"</p>
```

"Just *do* it already!"

Use the `<em>` element for text that has a stressed emphasis relative to the surrounding text. Most browsers will render it in italics, but you can change this via CSS>

# Unordered Lists



```
<ul>
  <li>Flour</li>
  <li>Baking Soda</li>
  <li>Brown Sugar</li>
</ul>
```

Create unordered lists using the `<ul>` tags, then use `<li>` tags to populate the list with items.



```
<ul>
  <li>Flour</li>
  <li>Baking Soda</li>
  <li>Brown Sugar</li>
</ul>
```



- Flour
- Baking Soda
- Brown Sugar

# Ordered Lists

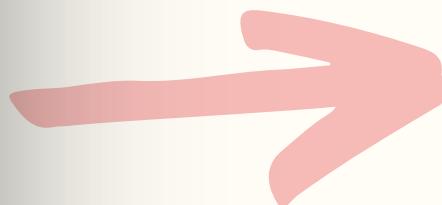


```
<ol>
  <li>Preheat Oven</li>
  <li>Grease Pans</li>
  <li>Mix Batter</li>
</ol>
```

Create **ordered lists** using the `<ol>` tags, then use  
`<li>` tags to populate the list with items.



```
<ol>
  <li>Preheat Oven</li>
  <li>Grease Pans</li>
  <li>Mix Batter</li>
</ol>
```



1. Preheat Oven
2. Grease Pans
3. Mix Batter

Sup + Sub

Superscript

Subscript

# Superscript



```
<h1>4<sup>th</sup> of July</h1>
```

**4<sup>th</sup> of July**

Use the `<sup>` tags to designate text as superscript (raised baseline with smaller text)

# Subscript



```
<p>Give Me Some H<sub>2</sub>O</p>
```

Give Me Some H<sub>2</sub>O

Use the `<sub>` tags to designate text as subscript  
(lowered baseline with smaller text)

# <b>



Use the **<b>** element to bring attention to text. Use it for text that is traditionally bolded, only when there is not a more suitable element.

# <i>



```
<p>I love <i>Orchidaceae</i>, AKA the orchid family of plants</p>
```

Use the `<i>` element for text that is set off from the normal text for some reason (latin terms, technical words, etc.)

Use it for text that is traditionally italicized, only when there is not a more suitable element.

# span



```
<p>Hello <span>world</span></p>
```

Spans are generic inline elements that don't inherently represent anything. They can be used to group content to later style separately

# links

[Visit the Galison Store](#)



887 ratings

Amazon's Choice

for "aesthetic puzzle"

**1. Link Text** What does the link say?

**2. Destination** Where does the link take you to?

# links



```
<a href="https://www.reddit.com">Go To Reddit</a>
```

Use the anchor element to create hyperlinks  
to other webpages and documents

# Attributes



```
<a href="https://www.reddit.com">Go To Reddit</a>
```

- Control an elements behavior
- Go **inside** the opening tag



```
<a href="https://www.reddit.com">Go To Reddit</a>
```

# attribute



```
<input type="checkbox">
```

attribute

attribute="value"

`href="google.com"`

src="dog.png"

# relative links



```
<a href="about.html">About Us</a>
```

We can also link directly to other HTML documents  
by referencing them using a relative path.

# Links to elements



```
<a href="#Section_further_down"> Jump to the heading below </a>  
<h2 id="Section_further_down">Section further down</h2>
```

We can create links to elements on the same page if the element has an id assigned to it.

# Images



```

```

Create image elements using the `<img>` tag.

Note that it does not have a closing tag!

The `src` attribute specifies the location of  
the image to be displayed.

# Forms

Enter your name:

Enter your email:

Do you agree to sell your soul?

Subscribe!

# Forms...

## 1. Group Form Controls

What inputs are part of the form?

## 2. Send The Data Somewhere

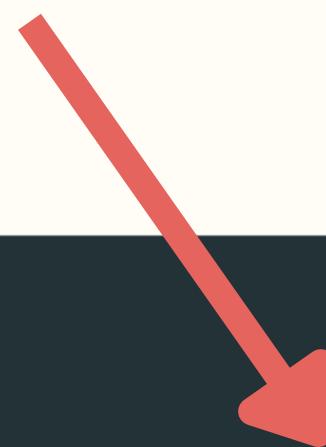
Where does the form data go when submitted?

Where the form  
data is sent



```
<form action="/signup" method="get">  
  <!-- Form Controls Go In Here -->  
</form>
```

What HTTP "verb" is  
used



```
<form action="/signup" method="get">  
  <!-- Form Controls Go In Here -->  
</form>
```

# Text Inputs

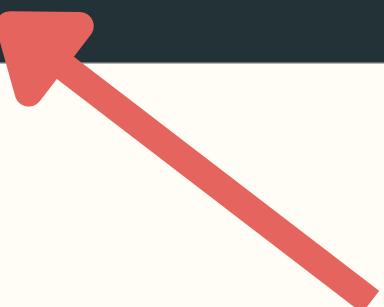


The input element is extremely versatile.  
set type="text" to create a standard text  
input. Like <a>, it has **no closing tag!**

# Buttons



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



Will submit a form



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

These Are Equivalent!

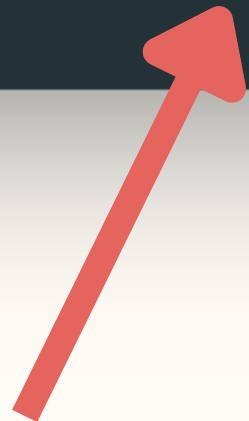


```
<button type="submit">Submit</button>
```

# Name



```
<input type="text" name="city">
```



The name that the data will  
be sent to the server under

# Labels

```
● ● ●  
<label for="username">Enter Your Username</label>  
  
<input type="text" id="username">
```

Match a label element to a form control using the **for** attribute. It must match the **id** attribute on an input

# Required



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

Use the required attribute to  
mark an input as...required!

# Text Areas



```
<textarea rows="5" cols="33">Blah Blah</textarea>
```

Use <textarea> tags to create a multi-line text input.

# Range Input



```
<input type="range" min="0" max="11">
```

Use `type="range"` to create a range input (slider)

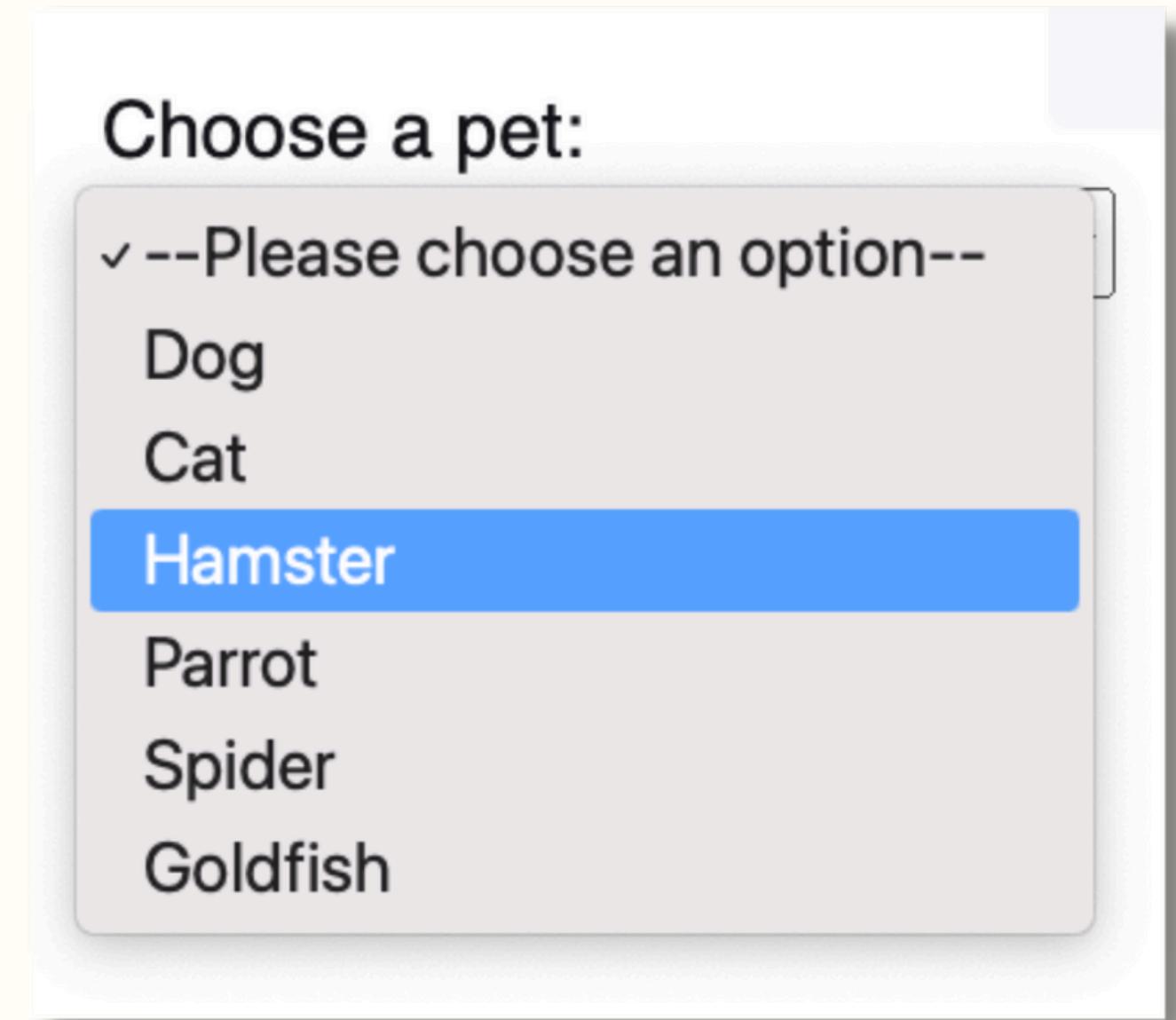
# Checkbox



```
<input type="checkbox" name="subscribe" />
```

Use `type="checkbox"` to create a checkbox element

# Selects



# Selects



```
<select name="pets" id="pet-select">
  <option value="dog">Dog</option>
  <option value="cat">Cat</option>
  <option value="hamster">Hamster</option>
  <option value="parrot">Parrot</option>
  <option value="spider">Spider</option>
  <option value="goldfish">Goldfish</option>
</select>
```

Populate a `<select>` element  
with `<option>` elements.

# Radio Button

Email  Phone  Mail

Radio buttons are usually grouped together. Only ONE option can be selected.

# Other Inputs

# Disabled



```
<input type="color" disabled>
```

# Tables

**Mineral content of common cheeses, DV% per 100 g**

	Cl ↓	Ca ↓	Fe ↓	Mg ↓	P ↓	K ↓	Na ↓	Zn ↓	Cu ↓	Mn ↓	Se ↓
<b>Swiss</b>	2.8	79	10	1	57	2	8	29	2	0	26
<b>Feta</b>	2.2	49	4	5	34	2	46	19	2	1	21
<b>Cheddar</b>	3	72	4	7	51	3	26	21	2	1	20
<b>Mozzarella</b>	2.8	51	2	5	35	2	26	19	1	1	24
<b>Cottage</b>	3.3	8	0	2	16	3	15	3	1	0	14



```
<table>
  <thead>
    <tr>
      <th>Purchase</th>
      <th>Location</th>
      <th>Date</th>
      <th>Evaluation</th>
      <th>Cost (€)</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Haircut</td>
      <td>Hairdresser</td>
      <td>12/09</td>
      <td>Great idea</td>
      <td>30</td>
    </tr>
    <tr>
      <td>Toothpaste</td>
      <td>Supermarket</td>
      <td>13/09</td>
      <td>Good</td>
      <td>5</td>
    </tr>
  </tbody>
</table>
```



```
<table> ←  
  <tr>  
    <td>Avatar</td>  
    <td>$2,923,905,528</td>  
  </tr>  
  <tr>  
    <td>Avengers: Endgame</td>  
    <td>$2,797,501,328</td>  
  </tr>  
  <tr>  
    <td>Titanic</td>  
    <td>$2,187,535,296</td>  
  </tr>  
</table>
```

parent table element

Avatar	\$2,923,905,528
Avengers: Endgame	\$2,797,501,328
Titanic	\$2,187,535,296

```
● ● ●  


|                   |                 |
|-------------------|-----------------|
| Avatar            | \$2,923,905,528 |
| Avengers: Endgame | \$2,797,501,328 |
| Titanic           | \$2,187,535,296 |


```

use <tr> to create  
table rows

Avatar	\$2,923,905,528
Avengers: Endgame	\$2,797,501,328
Titanic	\$2,187,535,296

```
● ● ●  


|                   |                 |
|-------------------|-----------------|
| Avatar            | \$2,923,905,528 |
| Avengers: Endgame | \$2,797,501,328 |
| Titanic           | \$2,187,535,296 |


```

use <td> to create each table cell

Avatar	\$2,923,905,528
Avengers: Endgame	\$2,797,501,328
Titanic	\$2,187,535,296

```
<table>
  <tr>
    <th>Movie Title</th> ←
    <th>Worldwide Gross</th>
  </tr>
  <tr>
    <td>Avatar</td>
    <td>$2,923,905,528</td>
  </tr>
  <tr>
    <td>Avengers: Endgame</td>
    <td>$2,797,501,328</td>
  </tr>
  <tr>
    <td>Titanic</td>
    <td>$2,187,535,296</td>
  </tr>
</table>
```

use `<th>` to create  
table headers

Movie Title	Worldwide Gross
Avatar	\$2,923,905,528
Avengers: Endgame	\$2,797,501,328
Titanic	\$2,187,535,296

**<thead>**

**<tbody>**

**<tfoot>**

<caption>

colspan +

rowspan

Item	Quantity	Unit Price	Price
Pencils	2	\$1	\$2
Erasers	4	\$0.50	\$2
Subtotal			\$4
Tax	10%		\$0.4

Item	Quantity	Unit Price	Price
Pencils	2	\$1	\$2
Erasers	4	\$0.50	\$2
Subtotal			\$4
Tax	10%		\$0.4

Item	Quantity	Unit Price	Price
Pencils	2	\$1	\$2
Erasers	4	\$0.50	\$2
Subtotal			\$4
Tax	10%		\$0.4

# `<span>`

Spans are generic inline elements.  
They have no special meaning but  
can be styled later using CSS

```
<div>
```

Divs are generic containers that have no inherent meaning. They are used to group content together for styling.

# Semantic Markup

The html tags "say"  
something about the  
meaning of their content

```
-<div id="mw-page-base" class="noprint"></div>
-<div id="mw-head-base" class="noprint"></div>
▼<div id="content" class="mw-body ve-init-mw-desktopArticleTarget-targetContainer" role="main">
  <a id="top"></a>
  ▼<div id="siteNotice">
    <div id="centralNotice"></div>
    <!-- CentralNotice -->
  </div>
  <div class="mw-indicators"> </div>
  ▶<h1 id="firstHeading" class="firstHeading mw-first-heading">...</h1>
  ▼<div id="bodyContent" class="vector-body">
    <div id="siteSub" class="noprint">From Wikipedia, the free encyclopedia</div>
    <div id="contentSub"></div>
    <div id="contentSub2"></div>
    <div id="jump-to-nav"></div>
    ▼<div id="mw-content-text" class="mw-body-content mw-content-ltr" lang="en" dir="ltr">
      ▼<div class="mw-parser-output">
        <div class="shortdescription nomobile noexcerpt nowrap searchaux" style="display:none">1984 film by Miloš Forman</div>
      ▶<div id="toc" class="toc" role="navigation" aria-labelledby="mw-toc-heading">...</div>
```

```
<div id="mw-page-base" class="noprint"></div>
<div id="mw-head-base" class="noprint"></div>
<div id="content" class="mw-body ve-init-mw-desktopArticleTarget-targetContainer" role="main">
  <a id="top"></a>
  <div id="siteNotice">
    <div id="centralNotice"></div>
    <!-- CentralNotice -->
  </div>
  <div class="mw-indicators"> </div>
  > <h1 id="firstHeading" class="firstHeading mw-first-heading">...</h1>
  <div id="bodyContent" class="vector-body">
    <div id="siteSub" class="noprint">From Wikipedia, the free encyclopedia</div>
    <div id="contentSub"></div>
    <div id="contentSub2"></div>
    <div id="jump-to-nav"></div>
    <div id="mw-content-text" class="mw-body-content mw-content-ltr" lang="en" dir="ltr">
      <div class="mw-parser-output">
        <div class="shortdescription nomobile noexcerpt noprint searchaux" style="display:none">1984 film by Miloš Forman</div>
      <div id="toc" class="toc" role="navigation" aria-labelledby="mw-toc-heading">...</div>
```

```
▶ <nav id="sidebar-quicklinks" class="sidebar">...</nav> flex
▼ <div class="toc">
  ▶ <aside class="document-toc-container">...</aside> flex
</div>
▼ <main id="content" class="main-content " role="main"> flex
  ▼ <article class="main-page-content" lang="en-US">
    <h1><span>: The Content Span element</h1>
    ▶ <div class="section-content">...</div>
    ▶ <section aria-labelledby="try_it">...</section>
    ▶ <section aria-labelledby="attributes">...</section>
    ▶ <section aria-labelledby="example">...</section>
    ▶ <section aria-labelledby="example_1">...</section>
    ▶ <section aria-labelledby="example_2">...</section>
```

```
▶ <nav id="sidebar-quicklinks" class="sidebar">...</nav> flex
▼ <div class="toc">
  ▶ <aside class="document-toc-container">...</aside> flex
</div>
▼ <main id="content" class="main-content " role="main"> flex
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    ▶ <section aria-labelledby="attributes">...</section>
    ▶ <section aria-labelledby="example">...</section>
    ▶ <section aria-labelledby="example_1">...</section>
    ▶ <section aria-labelledby="example_2">...</section>
```

# WHY?

1. Accessibility
2. Search Engines
3. Developer Sanity

<audio>

<video>

<video>

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sub

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a

img

table

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td

th

caption

tbody

thead

tfoot

input

form

button

label

textarea

span

div

select

option

fieldset

legend

audio

video

nav

body

head

footer

header

aside

main