

# Hyper Text Markup Language

# HTML Tags and element

- markup language (contents: images, texts, forms) not programming language
- one and the same thing
- Content and Structure

**live server for http protocol**

```
<p> </p>  
<a> </a>  
<img>
```

# index.html

- starting point
- default homepage file name
- document type `<!DOCTYPE html>`
- root element `<html> </html>`
- head :info meta data
- body : renders into the page
- series of different tags that make up the page

**http over file protocol**

# Tags and elements

- `<p></p>` Paragraph tag
- `<strong></strong>` important - **bold**
- `<em></em>` emphasis - *italics*
- `<small></small>` small text

```
<p>  
  This text is now <small>small</small>; now its wrapped inside <strong>bold</strong> lets use emp tag <em>italics</em>  
</p>
```

This text is now small now its wrapped inside **bold** lets use emp tag *italics*

# Heading Tags

- 1 to 6, 1 being most importance

```
<h1>Heading 1</h1>  
<h2>Heading 2</h2>  
<h3>Heading 3</h3>  
<h5>Heading 4</h5>  
<h5>Heading 5</h5>  
<h6>Heading 6</h6>
```

# Heading 1

## Heading 2

### Heading 3

#### Heading 4

##### Heading 5

###### Heading 6

# List item

## unordered list

```
<h2>unordered list</h2>
<ul>
  <li>unordered List</li>
  <li>unordered</li>
  <li>unordered</li>
  <li>unordered</li>
</ul>
```

## ordered list

```
<h2> ordered list</h2>
<ol>
  <li>lorem12</li>
  <li>lorem12</li>
  <li>lorem12</li>
  <li>lorem12</li>
</ol>
```

## unordered list

- unordered List
- unordered
- unordered
- unordered

## ordered list

1. lorem12
2. lorem12
3. lorem12
4. lorem12

# **<Div></Div> and <span> </span>Tag**

- group things together
- used for styling sections
- span way to add css or js inside a part of text

# single tags

- `<"br">` does not need a closing tag
- `<hr>` separate content with horizontal rule
- `<img>` image should have a src attr to it
  - uses relative path or url
  - alt for screen reader or loading when image fails
- `<a>` anchor tag links to pages
  - href: hyperlink references
  - styled automatically by the browser



# comments and extra

- ctrl + / add comments to html

`<blockquote cite="google.com">some nice quote</blockquote>` quote something from  
other site adds indentation

- src, href, cite, alt

# Forms

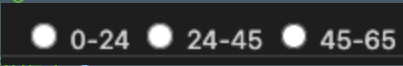
# Label and input fields

- these are what forms are made of
- tags label and inputs
- different types of attributes
  - `for` : used in `<label>` to create association with input field
  - `text` : we want text from user
  - `email` : we want email (simple validation provided)
  - `password` : we want password
  - `radio` : radio button
  - `submit` : a button to submit form

# other attributes

- `required`: makes field required
- `name` attr can be used for server side processing
  - group different part of forms together
  - multiple radio buttons
- `value` : to set the value
- `placeholder`: text to display when field is empty

```
<input type="radio" value="1" name="age" id="age1">  
<label for="age1">0-24</label>  
<input type="radio" value="2" name="age" id="age2">  
<label for="age2">24-45</label>  
<input type="radio" value="3" name="age" id="age3">  
<label for="age3">45-65</label>
```



# Select box

```
<label for="quiz">select correct answer</label>
<select name="quiz" id="quiz">
  <option value="1"> answer 1 </option>
  <option value="2"> answer 2 </option>
  <option value="3"> answer 3 </option>
</select>
```

select correct answer answer 1 ▼

select correct answer: ✓ answer 1  
answer 2  
answer 3

# Text Area

- text area is used for long text
- `row`: size in rows
- `cols`: size in cols

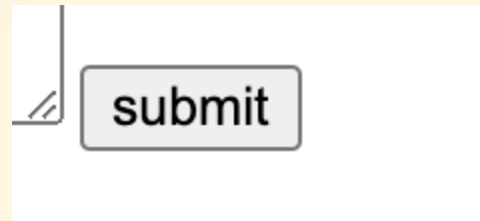
```
<label for="comments">comments</label>  
<textarea name="comments" id="comments" cols="30" rows="10"></textarea>
```



# submit button

- input type submit and value the text to show
  - browser takes all the data and sends it to

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



# Form summary

- form is a collection of fields
- we saw how to create a form
- input types like text, email, password radio and so on
- how to use label, id and name attr
- how to use select box
- how to use text area
- how to create a submit button



# inline/block html element

- in line => line up next to each other span, img, strong, em
- block => take up the whole width p, div, h1, h2 ....

# HTML 5: Sementic

- severe new tab to structure tings properly div is too generic
- more descriptive

# descriptive tags

- `main` : main content of webpage, unique to page
- `section` : certain section of the page
- `article` : a post
- `aside` : define related content (beside an article showing things related to it)
- `header` : nav , title so on
- `footer` : footer of the page

# HTML-Sementic

```
<header>
  <h1>    Qasim Header </h1>
  <section>
    
    <div class="headerDiv">
      <h2> welcome to <br> <span>QasimClass</span></h2>
    </div>
  </section>
  <nav>
    <ul>
      <li><a>home</a></li>
      <li><a>about</a></li>
      <li><a>contact</a></li>
    </ul>
  </nav>
  <main>
    <article> <h2> lorem12 </h2>
    <p></p>
  </article>
    <ul>
      <li><a>home</a></li>
      <li><a>about</a></li>
      <li><a>contact</a></li>
    </ul>
  </main>
</header>
```