CS637 Class 2

We are looking at slides from

HTML and CSS: Design and Build Websites by Jon Duckett

Slides are posted on the class website, protected by a password written on the (virtual) board

Take roll for second and last time.

Note: Exams are open-books, no cell phone or email use, proctored by Zoom, with private recording.

If you must take a phone call during an exam, tell the proctor what you're doing.

HTML&CSS

design and build websites



HEADINGS

<h1>This is a Main Heading</h1>
<h2>This is a level 2 heading</h2>
<h3>This is a level 3 heading</h3>
<h4>This is a level 4 heading</h4>
<h5>This is a level 5 heading</h5>
<h6>This is a level 6 heading</h6>

This is a Main Heading

This is a Level 2 Heading

This is a Level 3 Heading

This is a Level 4 Heading

This is a Level 5 Heading

This is a Level 6 Heading

PARAGRAPHS

A paragraph consists of one or more sentences that form a self-contained unit of discourse. The start of a paragraph is indicated by a new line.

Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading will be one or more paragraphs. A paragraph consists of one or more sentences that form a self-contained unit of discourse. The start of a paragraph is indicated by a new line.

Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading there will be one or more paragraphs.

WHITESPACE IS COLLAPSED

The moon is

drifting away from the

earth.

The moon is drifting away from Earth.

LINE BREAKS

The Earth
gets one hundred tons heavier every day
due to falling space dust.

Note:
 is the usual way to write the line break.

LINE BREAKS

The Earth
gets one hundred tons
heavier every day
due to falling space
dust.

The Earth gets one hundred tons heavier every day due to falling space dust.

STRONG & EMPHASIS

Beware pickpockets operate in this area.

I think Ivy was the first.

I think Ivy was the first.

I think Ivy was the first.

Beware: Pickpockets operate in this area.

I think Ivy was the first.

I think Ivy was the first.

I think Ivy was the *first*.



WRITING LINKS

IMDB

WRITING LINKS

THE PAGE THE LINK TAKES YOU TO IMDB

WRITING LINKS



LINKING TO OTHER SITES

HTML

 Empire

RESULT



LINKING TO OTHER PAGES ON THE SAME SITE

HTMI

- Home
- About
- Movies
- Contact

RESULT

• <u>Home</u>

- <u>About</u>
- <u>Movies</u>
- <u>Contact</u>

examplearts index.html movies 🖿 cinema index.html listings.html reviews.html l dvd index.html listings.html reviews.html music index.html listings.html reviews.html theater index.html listings.html reviews.html

SAME reviews.html

examplearts index.html movies 🖿 cinema index.html listings.html reviews.html l dvd index.html listings.html reviews.html music index.html listings.html reviews.html theater index.html listings.html reviews.html

SAME reviews.html

CHILD music/index.html examplearts index.html movies 🖿 cinema index.html listings.html reviews.html l dvd index.html listings.html reviews.html music index.html listings.html reviews.html theater index.html listings.html reviews.html

SAME reviews.html

CHILD music/index.html

PARENT
../index.html

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SAME reviews.html

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PARENT ../index.html

GRANDCHILD movies/dvd/index.html examplearts index.html movies 🖿 cinema index.html listings.html reviews.html 🖿 dvd index.html listings.html reviews.html music index.html listings.html reviews.html theater index.html listings.html reviews.html

SAME reviews.html

CHILD music/index.html

PARENT ../index.html

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GRANDPARENT ../../index.html examplearts index.html movies 🖿 cinema index.html listings.html reviews.html l dvd index.html listings.html reviews.html music index.html listings.html reviews.html theater index.html listings.html reviews.html

EMAIL LINKS

HTML

Email Jon

EMAIL LINKS

HTML

Email Jon

RESULT

00	New Message	0
To: jon@example.org		
Subject:		
=		Signature: None 🛟 ! 🛟

<h1 id="top"> Film-Making Terms</h1>

 Arc shot

 Interlude

 Prologue

<h2 id="prologue"> Prologue</h2>

...

Film-Making Terms

Arc Shot Interlude Prologue

Arc Shot

A shot in which the subject is photographed by an encircling or moving camera

Interlude

A brief, intervening film scene or sequence, not specifically tied to the plot, that appears within a film

<h1 id="top"> Film-Making Terms</h2>

 Arc shot
 Interlude
 Prologue

. . .

<h2 id="prologue"> Prologue</h2> Top

Film-Making Terms



Arc Shot

A shot in which the subject is photographed by an encircling or moving camera

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<hl id="top"> Film-Making Terms</hl>

 Arc shot
 Interlude
 Prologue

<h2 id="prologue"> Prologue</h2>

```
<a href="#top">Top</a>
```

Arc Shot

A shot in which the subject is photographed by an encircling or moving camera

Interlude

A brief, intervening film scene or sequence, not specifically tied to the plot, that appears within a film

Prologue

A speech, preface, introduction, or brief scene preceding the the main action or plot of a film; contrast to epilogue

<u>Top</u>

<h1 id="top"> Film-Making Terms</h1>

 Arc shot
 Interlude
 Prologue

. . .

<h2 id="prologue"> Prologue</h2> Top

Arc Shot

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<h1 id="top"> Film-Making Terms</h1>

```
<a href="#arc-shot">
Arc shot</a><br />
<a href="#interlude">
Interlude</a><br />
<a href="#prologue">
Prologue</a><br />
```

• • •

<h2 id="prologue"> Prologue</h2> Top

Film-Making Terms

<u>Aic Shot</u> In erlude Prologue

Arc Shot

A shot in which the subject is photographed by an encircling or moving camera

Interlude

A brief, intervening film scene or sequence, not specifically tied to the plot, that appears within a film
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CHOOSING IMAGES FOR YOUR SITE

Images can set the tone for a site in less time than it takes to read a description.



boots and shoes sneak peek PATAGONIA FOR WINTER WON'T LAST FOREVER. YOUR FEET PEEP SOME OF OUR NEW SPRING GEAR.

C soft-shell jackets **USED PATAGONIA** GEAR POWERED BY BREATHABLE PERFORMANCE О

CHOOSING IMAGES FOR YOUR SITE

Images are subject to copyright but there are stock photography sites where you can buy them.

gettyimages®

Sign in Register

Live chat Contact us - (\$) International



CHOOSING IMAGES FOR YOUR SITE

If a page shows several photos of products or members of a team, keep them consistent.



STORING IMAGES ON YOUR SITE

DEVICES	Name	Date Modified	Size	Kind
DEVICES	about.html	24 June 2011 20:01	4 KB	HTML document
SHARED	Contact.html	28 March 2011 05:16	4 KB	HTML document
PLACES	🔻 💼 images	Today, 18:13		Folder
▶ SEARCH FOR	chocolate-islands.jpg	Yesterday, 16:21	86 KB	JPEG image
	lemon-posset.jpg	Yesterday, 17:28	25 KB	JPEG image
	— logo.gif	Yesterday, 16:12	4 KB	Graphics Interchange Format (GIF
	roasted-brussel-sprouts.jpg	Yesterday, 17:15	37 KB	JPEG image
	zucchini-cake.jpg	Yesterday, 15:59	20 KB	JPEG image
	index.html	Yesterday, 17:53	4 KB	HTML document

ADDING IMAGES

HTML

<img src="images/quokka.jpg"
 alt="A family of quokka"
 title="The quokka is an Australian
 marsupial that is similar in
 size to the domestic cat" />

RESULT



RESULT



Book examples: this page online

After right-click (not on image), View Sourcesult we can see the HTML for the page



This is using Chrome, but this can be done in any desktop browser. Chrome on smartphone: need to use URL view-source:http://whatever. Can carefully edit URL with pencil that shows up with tap on URL.

HEIGHT & WIDTH OF IMAGES

HTML

<img src="images/quokka.jpg"
 alt="A family of quokka"
 title="The quokka is an Australian
 marsupial that is similar in
 size to the domestic cat"
 width="600"
 height="450" />

RESULT



Resizing

RESULT

- Although browsers will resize images as specified by width and height, it's not a great idea to use it.
- Can end up with distorted or fuzzy images.
- Better to make another right-size image using a graphics editor and use that.

How a page with an image gets displayed RESULT

- In this case, the user selects the page as usual
- The browser does a GET request to the server
- The server sends the HTML page with the ...
- The browser receives the HTML, parses the URL, and issues another GET request for the image data (no user involvement here)
- The server sends the image data back
- The browser shows the completed page to the user
- This means two complete "request cycles" to the server
- We can make a chart showing this communication...

Communications Diagram: page with (time flows down in diagram)

RESULT



RESULT

Chrome can show details on the two requests

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	Filter 🛛 🗆 Hide data URLs							
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	Name Path	Status Text	Ту	Initiator	Size Ti. Con La	те С т	limeline – St a	
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	2 requests 497 B transferred Finish: 236 ms DOMContentLoaded: 197 ms Load: 236 ms							
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Network tab, reload page	Accept: image/webp,image/*,*/*;q=0.8 Accept-Encoding: gzip, deflate, sdch							
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One page can involve many HTTResult requests (from last class)



From https://developer.mozilla.org/en-US/docs/Web/HTTP/Overview

WHERE TO PLACE IMAGES IN YOUR CODE

<img src="images/bird.gif" alt="bird"
 width="100" height="100" />
There are around 10,000 living species
of birds that inhabit different ecosystems
from the Arctic to the Antarctic. Man
species undertake long distance annual
migrations, and many more perform shorter
irregular journeys.





There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

WHERE TO PLACE IMAGES IN YOUR CODE

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Man species undertake long distance annual migrations, and many more perform shorter irregular journeys.

RESULT



There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

 is "inline"

RESULT

- Now we look at cases where the element lies inside the element.
- is a block element, starts a new line
- Image is an inline element, keeps going on the current line
- Other block elements: <h1>, , , …
- Other inline elements: , <a>,

WHERE TO PLACE IMAGES IN YOUR CODE

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Man species undertake long distance annual migrations, and many more perform shorter irregular journeys.

There are around 10,000 living species of birds that inhabit different



ecosystems from the Arctic to the Antarctic. A Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

http://htmlandcssbook.com/codesamples/chapter-05/where-to-place-images.html



"OLD CODE"

- In the next slide and in Duckett, "OLD CODE" means pre-HTML5
- In HTML5, we use CSS to arrange nondefault positioning
- Skip "OLD CODE" for this class, but note it could be useful for working with older HTML.
- We should revisit these examples once we've tackled CSS.

OLD CODE: ALIGNING IMAGES HORIZONTALLY (we're skipping)

 There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Man species undertake long distance annual migrations, and many more perform shorter irregular journeys.

Similarly skip align="right" inside



Marcharle VV















Example image

 See <u>http://htmlandcssbook.com/code-</u> <u>samples/chapter-05/adding-images.html</u>

• HTML:

<body>

 </body>

- Note how it stays the same size while you resize the page. It shows in 600x450 screen pixels.
- On my laptop, 600 px width = 50% of screen width
- Right-click on image in Chrome, Inspect, to see its dimensions.

Pixels

- Each digital image has a grid of pixels, written as width x height, for example 600x450
- Each screen has "resolution" width x height pixels
 - O My old laptop: 1280x800, new one 1920x1080
 - O My desktop (20" "two-page" monitor): 1920x1080
 - O iPhone 5: 640x1136,...iPhone X: 1125x2436 ... iPhone XS: 1125x2436
 - O Samsung S7, Note 9: 1440x2560, ... S9 1440x2960
 - O Many old phones: 854x480
- We can expect about 1000 pixels across to work with
- In particular, the 600x450 image fits on any of these
- See pp. 377-378 for more examples.

IMAGE DIMENSIONS

- Create each image the same width and height as you would like it to appear on your website, using total width = 1000 px.
- Check it on various devices.
- More on this later.

HTML5: FIGURE & FIGURE CAPTION (HTML5)

<fiqure> <img src="images/otters.gif"</pre> alt="Photograph of two sea otters floating in the water" />
 <fiqcaption>Sea otters hold hands when they sleep so that they don't drift away from each other. </figcaption> </figure>

HTML5: FIGURE & FIGURE CAPTION

<figure>

<img src="images/otters.gif"
 alt="Photograph of two sea otters
 floating in the water" />

<figcaption>Sea otters hold hands when they sleep so that they don't drift away from each other.

</figcaption>

</figure>
HTML5: FIGURE & FIGURE CAPTION

<fiqure> <img src="images/otters.gif"</pre> alt="Photograph of two sea otters floating in the water" />
 <figcaption>Sea otters hold hands when they sleep so that they don't drift away from each other. </figcaption> </figure>



Sea otters hold hands when they sleep so they don't drift away from each other.

online

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WHAT'S A TABLE?

No time restriction

Bacardo francis no contrati Mala Recardo francis no nala francis no contrati Mala Mala da mana ana tana tana tana tana

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Zone 1 only	£2.00	£1.50	
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Zones 1-3	£2.80	£2.00	
Zones 1-4	£3.30	£2.30	
Zones 1-5	£4.20	£2.60	
Zones 1-6	£5.20	£3.20	
Zones 2, 3, 4, 5 or 6	£1.50	£1.30	
Zones 2-3, 3-4, 4-5, or 5-6	E1.90	£1.50	
Zones 2-4, 3-5 or 4- 6	E2.30	E1.70	
Zones 2-5 or 3-6	£2.9	0 £2.00	
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Adult fares

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+Peak Oyster single fares apply from 0630 to 0930 and from 1600 to 1900 Monday to Friday (excluding public holidays).

+Off-Peak Oyster single fare applies at all other times.

BASIC TABLE STRUCTURE

HTML

15 15 30 45 60 45

TABLE HEADINGS



Saturday Sunday Tickets sold: 120 135

SPANNING COLUMNS



	9am	10am	11am	12am
Monday	Geography		Math	Art

SPANNING ROWS



6pm - 7pm	Movie	Comedy	News
7pm - 8pm		Sport	Current Affairs

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WHY FORMS?



Ship to this address

FORM CONTROLS

ADDING TEXT:

Text input (single-line)

Ivy

MAKING CHOICES:

Radio buttons

💿 Rock 🔘 Pop 🔘 Jazz

Checkboxes

.....

Password input

🗹 iTunes 🖂 Last.fm 🖂 Spotify

Text area (multi-line)

Enter your comments...

Drop-down boxes

iPod 🔹

SUBMITTING FORMS:

Submit buttons

Subscribe

Image buttons

SUBSCRIBE

UPLOADING FILES:

File upload



VOTE FOR YOUR FAVORITE JAZZ MUSICIAN OF ALL TIME				
Username:	lvy			
I vote for:	 Ella Fitzgerald Herbie Hancock John Coltrane Miles Davis Thelonius Monk 	SUBMIT		

1: User fills in form and presses button to submit info to server



2: Name of each form control sent with value user entered



3: Server processes information using programming language



Thank you, lvy!

You voted for Herbie Hancock.

4: Server creates new page to send back to the browser based on info received

NAME & VALUE PAIRS

username=Ivy

NAME & VALUE PAIRS



NAME & VALUE PAIRS



Name-value pairs sent to server

• HTTP GET: in URL query string

GET /webapp/program?username=Ivy HTTP/1.0 ... headers

• HTTP POST: in the body of the request:

POST /webapp/program ... headers ... encoded name-value pairs

Note: HTTP POST is the usual way to send in form data, as we will see.

Communications Diagram: simple form handling (time flows down in diagram)

1. User: requests form page via browser

3. User: fills in form Browser: puts user input into params in POST request

5. User: sees response



2. Server: sees GET /...form.html, returns form.html on same connection

4.Server: sees POST /.../doit.php Get user input from params, do requested action, compose response, return it in same connection.

FORM STRUCTURE

HTML

<form

action="http://example.com/join.php"
method="get">

This is where the form controls will appear.

</form>

TEXT INPUT

HTML

<form action="http://example.com/join.php">

<input type="text" name="username"
size="15" maxlength="30" />

</form>

Username:

PASSWORD

HTML

Vsername: <input type="text" name="username" size="15" maxlength="30" />

Password: <input type="password" name="password" size="15" maxlength="30" />

Username: Ivy

Password:

TEXTAREA

HTML

What did you think of this gig?

<textarea name="comments" cols="20" rows="4"> Enter your comments... <textarea/>

What did you think of this gig?

//

Enter your comments...

RADIO BUTTON



HTML

<input type="radio" name="genre"
value="rock" checked="checked" /> Rock

<input type="radio" name="genre"
value="pop" /> Pop

<input type="radio" name="genre"
value="jazz" /> Jazz



Please select your favorite genre: Rock Pop Jazz

CHECKBOX

HTML

Your favorite music service:

<input type="checkbox" name="service"
value="iTunes"
checked="checked" /> iTunes

<input type="checkbox" name="service"
value="Last.fm" /> Last.fm

<input type="checkbox" name="service"
value="Spotify" /> Spotify
Your favorite music service: iTunes Last.fm Spotify

DROP DOWN LIST BOX

HTML

<select name="devices">

<option value="iPod"
 selected="selected">iPod</option>

<option value="radio">Radio</option>

<option value="PC">Computer</option>

</select>



MULTIPLE SELECT BOX, select with additional attribute (red)

<select name="devices" size="4"
multiple="multiple">

HTML

<option value="guitar"
 selected="selected">Guitar</option>
<option value="drums">Drums</option>
<option value="keys"
 selected="selected">Keyboard</option>
<option value="bass">Bass</option>
</option>

</select>



FILE INPUT BOX: we won't need this.

HTML

<form action="http://eg.com/upload.php" method="post">

Upload your song in MP3 format:

<input type="file" name="user-song" />

<input type="submit" value="upload" />

</form>

Upload your song in MP3 format:



SUBMIT BUTTON

HTML

- <form action="http://eg.com/email.php">
 Subscribe to our email list:
 - <input type="text" name="email" />
 - <input type="submit"
 value="Subscribe" />

</form>

Subscribe to our email list:



IMAGE BUTTON (does submit)

HTML

- <form action="http://eg.com/email.php">
 Subscribe to our email list:
 - <input type="text" name="email" />
 - <input type="image"
 src="images/subscribe.jpg"
 width="100" height="20" />

</form>

Subscribe to our email list:



BUTTONS: Don't use <button> inside a form!

<form action="http://eg.com/add.php">

HTML

<button>

<img src="images/add.gif" alt="add"
width="10" height="20" />

</button>

</form>

This submits the form, like <input type="submit"> or <input type="image">. <u>Tip from www.w3schools.com</u>: If you use the <button> element in an HTML form, different browsers may submit different values. Use <u><input></u> to create buttons in an HTML form.

• Let's follow this rule.

HIDDEN FORM CONTROLS And fix pg. 162: replace <button> with <input>

<form action="http://eg.com/add.php">

HTML

<button> <img src="images/add.gif"
alt="add" width="10" height="20"
/></button>

<input type="image" src="images/add.gif"
 alt="add" width="10" height="20" />

<input type="hidden" name="bookmark"
 value="lyrics" />
</form>



(Plus hidden effect: bookmark=lyrics goes back to server)

Communications Diagram: form handling RESULT Case of form having hidden control "bookmark"

1. User: requests form page via browser

3. User: clicks
button
Browser: puts
bookmark=lyrics in
GET request

5. User: sees response



2. Server: sees GET /...form.html, returns form.html on same connection

4.Server: sees GET /add.php?bookmark=lyrics Gets bookmark value, does requested action, composes response, returns it in same connection.

LABELLING FORM CONTROLS: two ways...

HTML

<form action="http://eg.com/email.php"> <label>Age: <input type="text" name="Age" /></label> Gender: <input id="female" type="radio"</pre> name="gender" value="f" /> <label for="female">Female</label> <input id="male" type="radio"</pre> name="gender" value="m" /> <label for="male">Male</label> </form>

GROUPING FORM ELEMENTS

HTML

<fieldset> <legend>Contact details</legend> <label>Email:
 <input type="text" name="email"></label>
 <label>Mobile:
 <input type="text" name="mobile"></label>
 <input type="text" name="mobile"></label>

<label>Telephone:

<input type="text" name="tel"></label>
</fieldset>

Contact details Email: Mobile: Telephone:

HTML5: FORM VALIDATION Add required attribute

HTML

<lr><label for="username">Username:</label></labelinput type="text" name="username"required="required" />

<lr><label for="password">Password:</label></label<input type="password" name="password" required="required" />

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



online

HTML5: DATE INPUT

HTML

<label for="date">Departure date:</label>

<input type="date" name="depart"
id="date" />

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

Departure date: 2011-06-27



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HTML5: EMAIL & URL INPUT

HTML

<input type="email" name="email" />

<input type="url" name="website" />



Please enter your email address:



Please enter your website address:



HTML5: SEARCH INPUT

HTML

<input type="search" name="search"
placeholder="Enter keyword" />

<input type="submit" value="Search" />

Search: Thelonius Search

online

Whenever you want to collect information from visitors you will need a form, which lives inside a <form> element.

Note: this is not strictly true, since it is possible to use <input> outside a form along with scripts that specify resulting behavior on user actions. It is true for simple PHP websites (they have no scripts).

Information from a form is sent in name/value pairs.

Each form control is given a name, and the text the user types in or the values of the options they select are sent to the server.

HTML5 introduces new form elements which make it easier for visitors to fill in forms.