Web Development



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HTML Page Structure & Publishing

Learning Outcomes

- Understand the structure of an *HTML Element*, and be able to recognize its variants.
- Be able to read and compose a *relative path*, and be able to distinguish it form an *absolute path*.
- Understand the implications of *nesting* of elements, and in particular be able to distinguish between correct and incorrect nesting.
- Be able to differentiate between block and inline elements
- Understand the general context of wireframing

- Elements, Attributes, & Documents
- Linking
- Nesting
- Linebreak, Block & Inline Elements
- Structuring a Page / Wireframing

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Components of an HTML Element

<title>

<title>My DVD Shop</title>

ElementName: <title>

No attributes

Content: My DVD Shop

ElementName </title>

>

```
Trouble prone teen Percy Jackson is about to be kicked out school but thats the least of his problems.
```

ElementName:

No attributes

Content: Trouble prone teen Percy Jackson is about to be kicked out school but thats the least of his problems

ElementName:

<a>

detailed directions

ElementName: <a>

Attribute:

name: href

value: "about/directions.html"

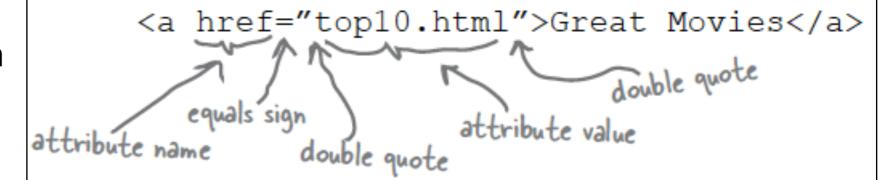
Content: detailed directions

ElementName

Attributes

 Attributes give you a way to specify additional information about an element.

Do this (correct form)



Not this (incorrect form)

Great Movies
WRONG - no double quotes around the attribute value.


```
|<img src="../images/pjackson.jpg">|
```

```
ElementName: <img>
```

Attribute:

name: src

value:"../images/PJackson.jpg"

Content: empty

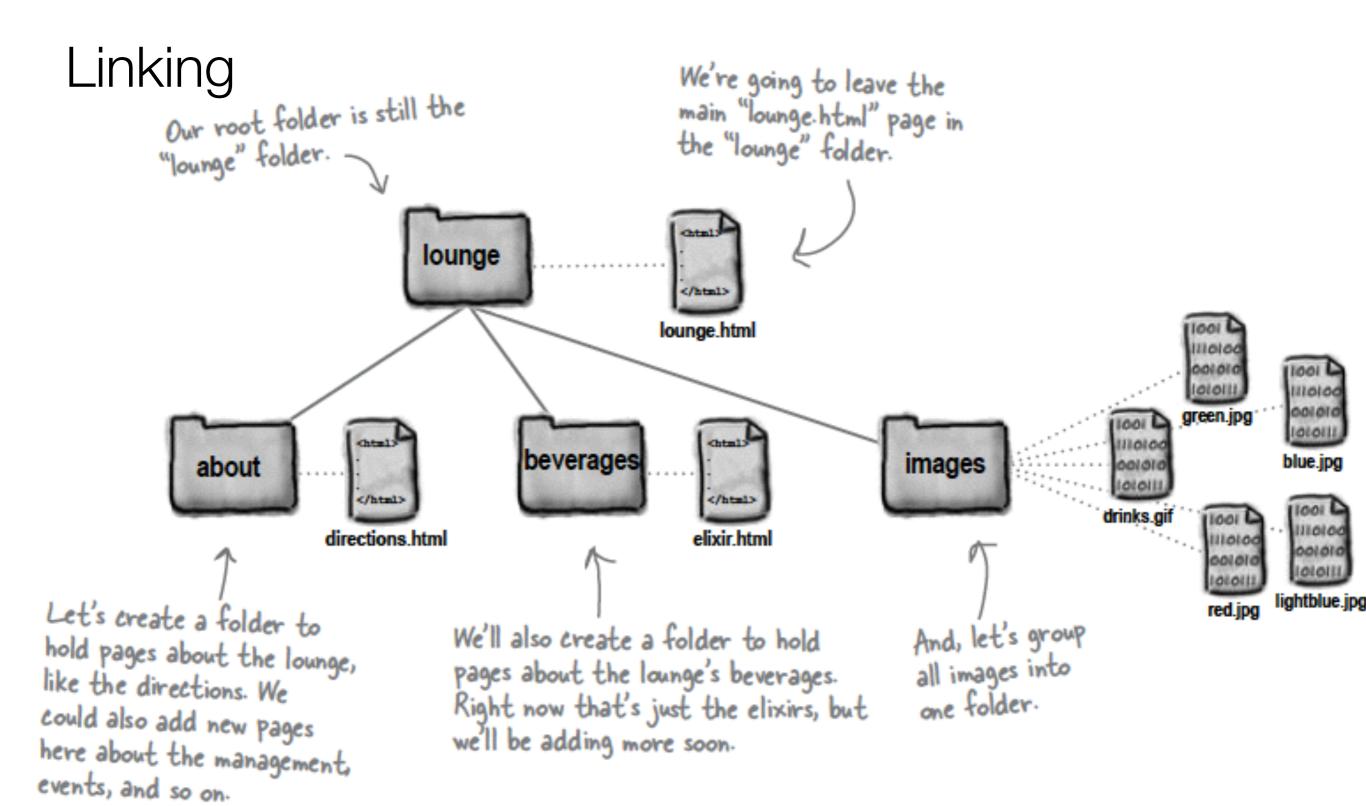
ElementName - none (for the moment)

HTML Document Structure

- html
 - head
 - title
 - body
 - h1
 - b
 - etc...

```
<html>
 <head>
   <title>My DVD Shop</title>
 </head>
 <body>
   <h1>Welcome to the New and Improved DVD Shop</h1>
   <img src="images/moviebanner.png">
     We have the biggest selection of DVDs and Games in Ireland.
     Check out our <a href="catalogue/newreleases.html">new releases</a>
     This week we reccomend <em>the Crazies</em>.
   <h2>Directions</h2>
   >
     You'll find us right in the center
     of downtown Webville. If you need help finding
     us, check out our
     <a href="about/directions.html">detailed directions</a>.
     Come join us!
   </body>
</html>
```

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Links: Absolute vs Relative

Absolute

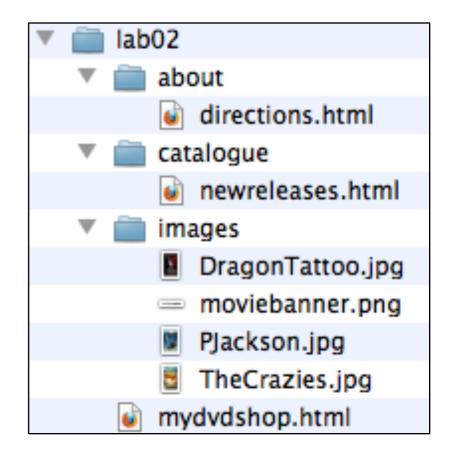
- Complete path to a file on the hard disk: e.g.
 - /webdevlabs/lab02/imagestatoo.jpg
 - /webdevlabs/lab01/mydvds.html

Relative:

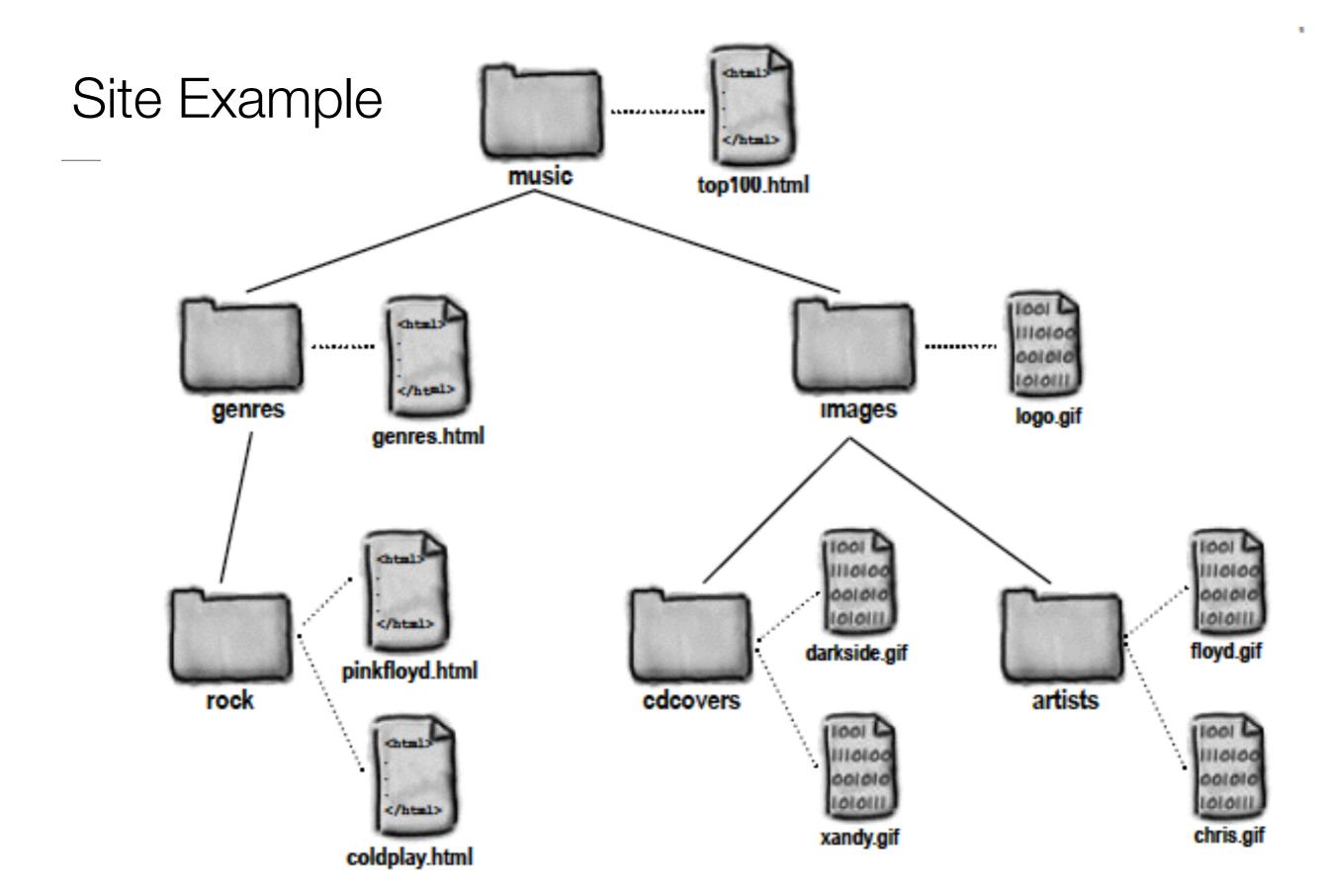
- Trace route from "current position" to the destination
- ".." means go up one level
- Directory name may prefix filename

Relative Link Examples

- If we are in "lab02" then "about/directions.html" is a relative link from the current folder to the catalogue folder, and to the files "directions.html" in that folder
- If we are in the catalogue folder, and we wish to link to one of the images, the link "../images/pjackson.jpg" means "go up one level, and then down into the "images" folder and then link to pjackson.jpg"
- Avoid absolute links!



```
<a href="catalogue/newreleases.html">new releases</a>
<img src="../images/DragonTattoo.jpg">
<a src="faq.html">FAQ</a>
```



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Nesting

- · When we put one element inside another element, we call that nesting.
- We say, the element is nested inside the <body>element.
- We put a <body>element inside an <html>element, a element inside a <body>element etc.





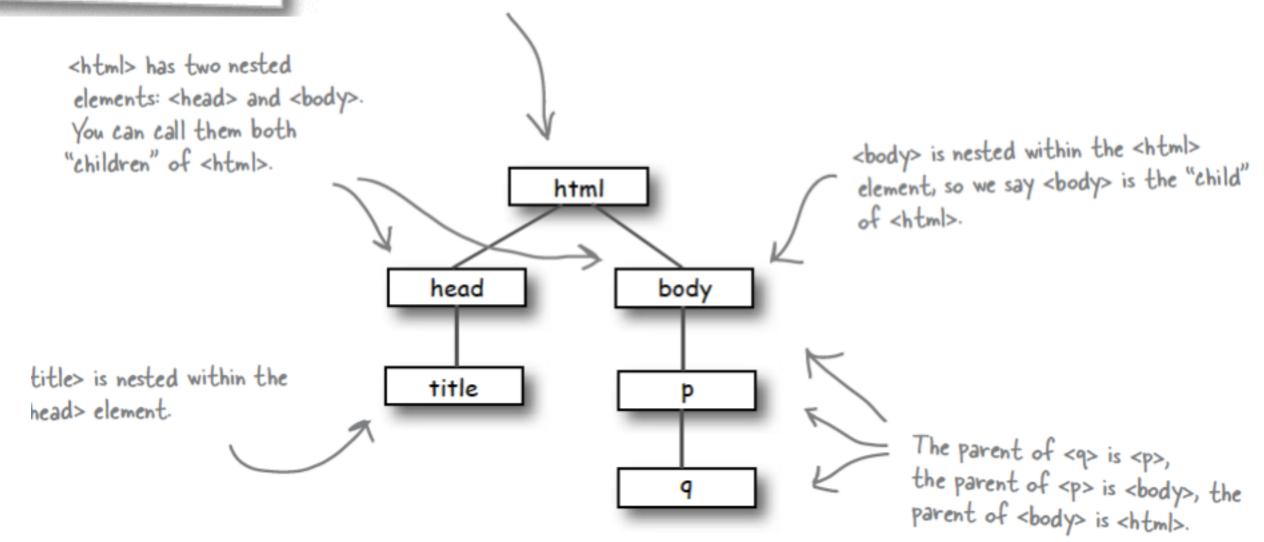
```
<html>
<head>
<title>Musings</title>
</head>
</head>
<body>

To quote Buckaroo,
<q>The only reason
for time is so
that everything
doesn't happen
at once.

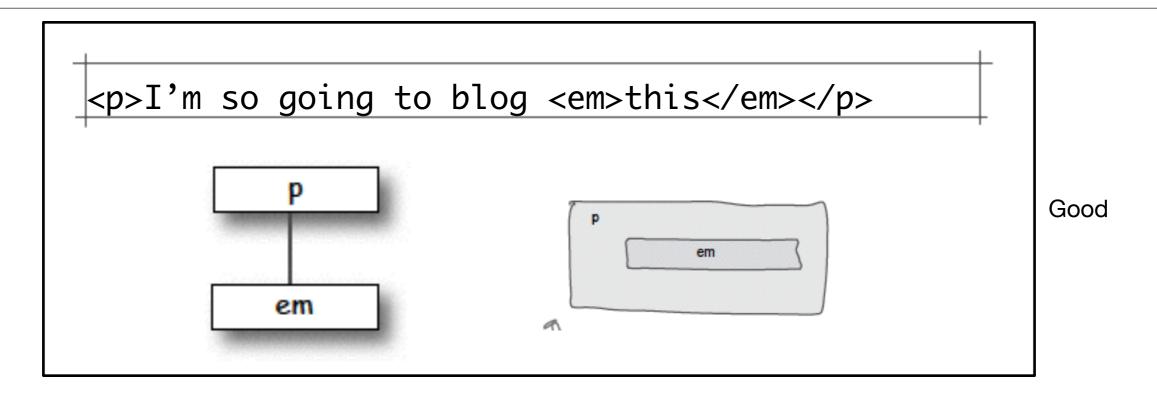
</body>
</html>
```

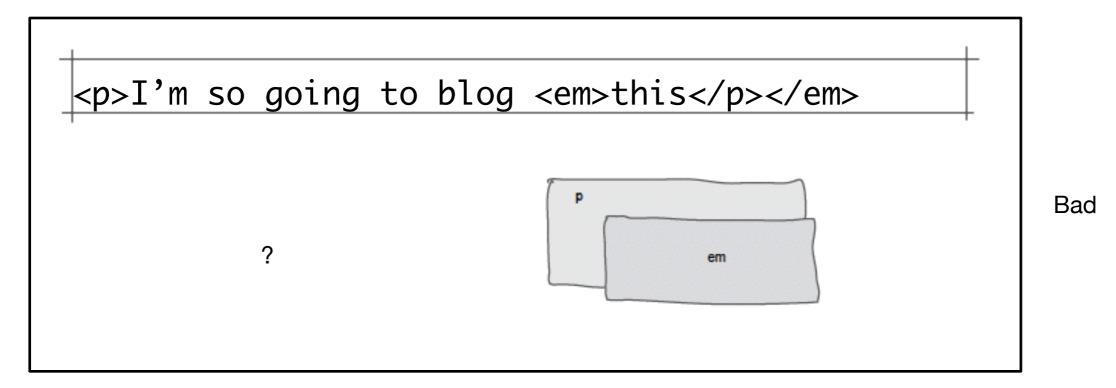
Nesting - Tree Structure

<html> is always the
element at the root of
the tree.



Nesting can be Incorrect!





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Line Breaks

- Break:
 </br>
- An Empty element: sometimes shortened to:

• or

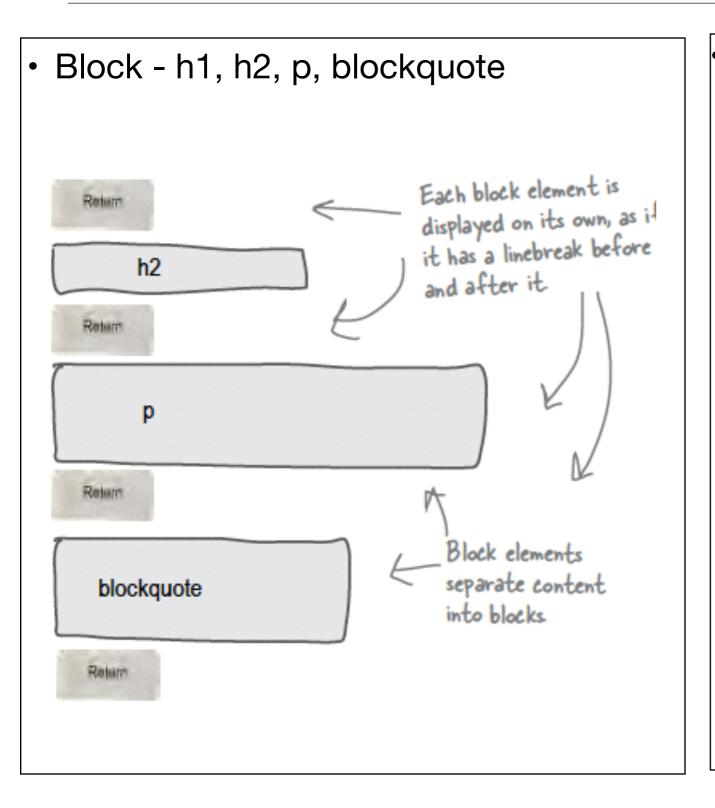
• or

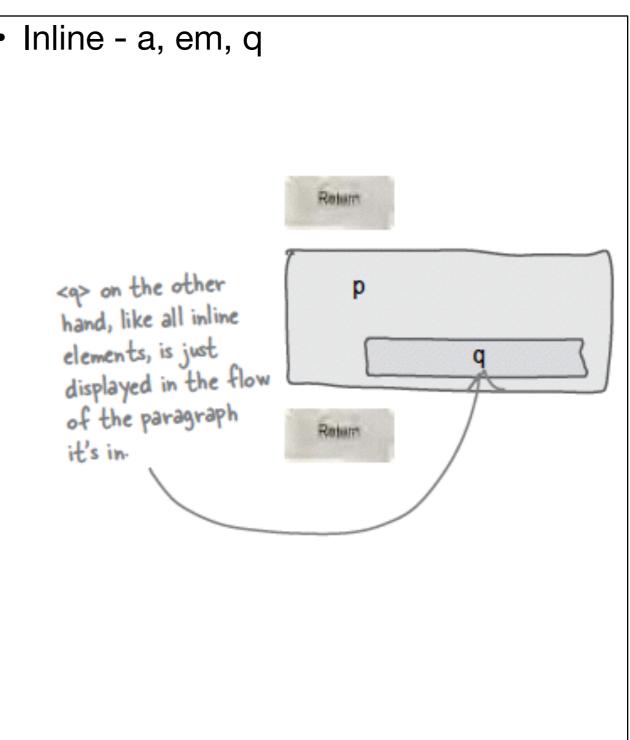
Block vs Inline Elements

- Block elements are always displayed as if they have a line break before and after them
- inline elements appear "in line" within the flow of the text in your page.

"Block elements stand on their own; inline elements go with the flow."

Examples





Example

	<	h2>Argo	block
	to r	sed on real events, the dramatic thriller "Argo" chronicles the life-or-death covert operation escue six Americans, which unfolded behind the scenes of the Iran hostage crisis, using on the little-known role that the CIA and Hollywood played-information that was not elassified until many years after the event.	block
	<	h2>Skyfall	block
		nd's loyalty to M is tested as her past comes back to haunt her. As MI6 comes under attack, must track down and destroy the threat, no matter how personal the cost.	block
	·······	Argo Based on real events, the dramatic thriller "Argo" chronicles the life-or-death covert operation to rescue six Americans, which unfolded behind the scenes of the Iran hostage crisis, focusing on the little-known role that the CIA and Hollywood played-information that was not declassified until many years after the event.	inebreak
		Skyfall	
	<u></u>	Bond's loyalty to M is tested as her past comes back to haunt her. As MI6 comes under attack, 007 must track down and destroy the threat, no matter how personal the cost.	

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Planning a Document (1)

Visualizing End Result

News & Views

Bits of news, words of advice

September 3, 2010



Movies coming in the next two weeks:

- 1. Robin Hood
- Prince of Persia, Sands of Time
- Date Night
- 4. Last Chance, CO
- 5. Bad Leutennant: Port of Call New Orleans
- Cop Out

September 1, 2010

Some reviews on the new Robin Hood movie. Good one from the Wall St. Journal:

Despite its abundant flaws and historical howlers and generally dimwitted tone, Robin Hood is a surprisingly enjoyable work of popcom cinema, if you're willing to take it on its own terms.

Not so good one from film.com:

The film is pretty, and there are a few solid moments every hour. But considered as a work of cinema, with paid professionals involved, it's an extremely lackluster story.

Might be worth watching.

August 28, 2010



We are doing a special on the top three highest grosing films of all time:

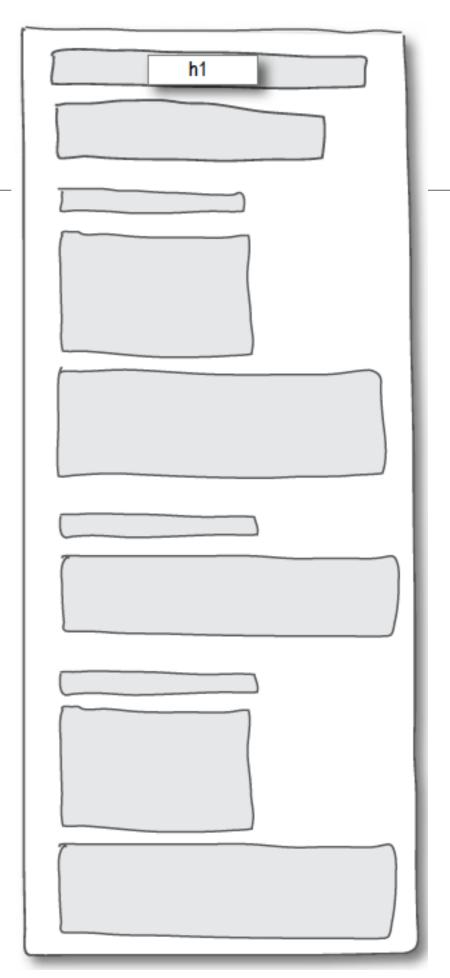
- Avatar
- Titanic
- Lord of the Rings: Return of the King

2 nights for €5

Powered by hand coded html

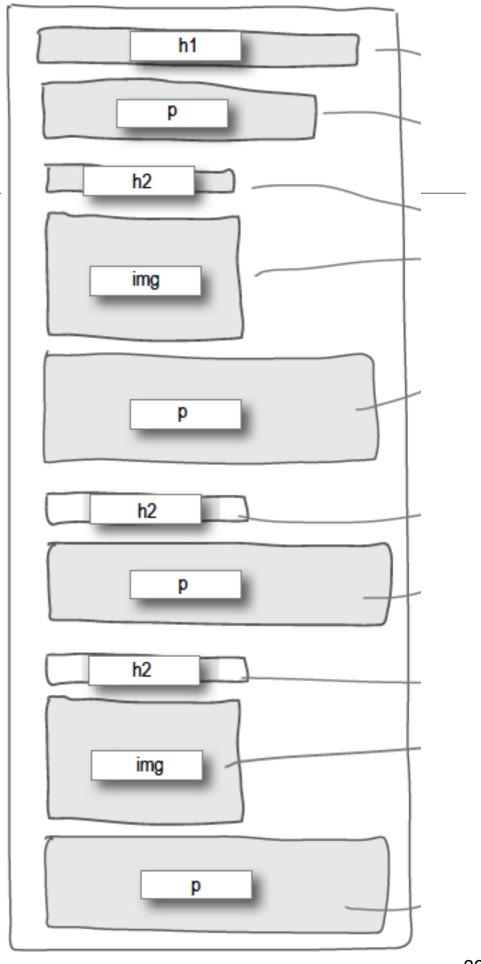
Planning a Document (2)

Identify Block Structure



Planning a Document (3)

Select suitable elements



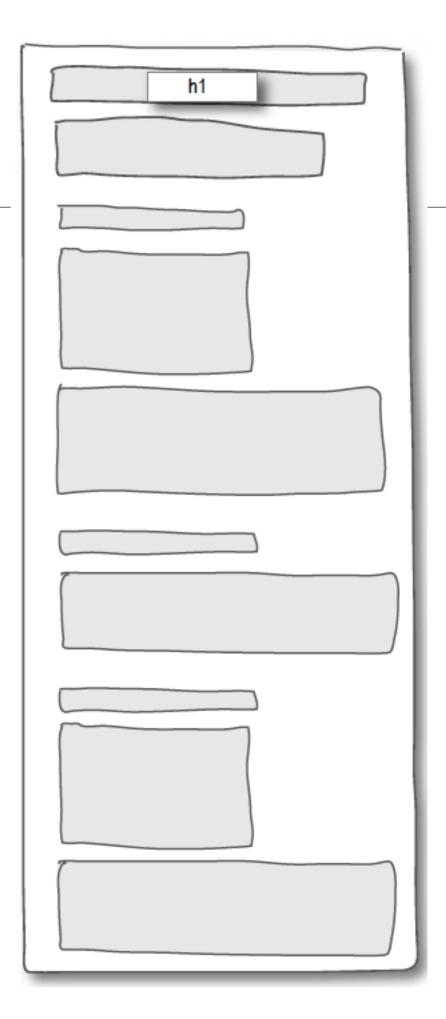
Planning a Document (4)

Build Content

```
<head>
                                      <title>My DVD News</title>
     h1
                                     </head>
                                    <body>
                                      <h1>News & Views</h1>
    р
                                        Bits of news, words of advice
                                      <h2>September 3, 2010</h2>
                                      <img src="images/robinhood.jpg">
h2
                                        Movies coming in the next two weeks:
                                      <01>
                                        Robin Hood
                                        Prince of Persia, Sands of Time
img
                                        Date Night
                                        Last Chance, CO
                                        Sad Leutennant: Port of Call - New Orleans
                                        Cop Out
                                      <h2>September 1, 2010</h2>
                                        Some reviews on the new Robin Hood movie. Good one from the Wall St. Journal:
                                      <blockguote>
                                        Despite its abundant flaws and historical howlers and generally dimwitted tone,
                                        Robin Hood is a surprisingly enjoyable work of popcorn cinema, if you're willing
                                        to take it on its own
                                                              terms.
                                      </blockguote>
h2
                                        Not so good one from film.com:
                                      <blockguote>
                                        The film is pretty, and there are a few solid moments every hour.
                                        But considered as a work of cinema, with paid professionals involved,
                                        it's an extremely lackluster story.
                                      </blockguote>
                                        Might be worth watching.
                                      <h2>
h2
                                      August 28, 2010</h2>
                                      <img src="images/avatar.ipg">
                                        We are doing a special on the top three highest grosing films of all time:
                                      Avatar
ımg
                                        Titanic
                                        Lord of the Rings: Return of the King
                                      2 nights for €5
                                      Powered by hand coded <html&gt;
                                      >
                                        <a href="mydvdshop.html">Back to the Shop</a>
                                    </body>
                                    /html>
```

Wire framing

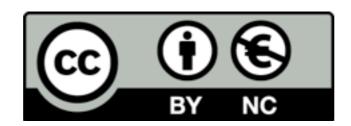
- A website wireframe is a basic <u>visual</u> guide used in <u>interface design</u> to suggest the structure of a <u>website</u> and relationships between its pages.
- A webpage wireframe is a similar illustration of the <u>layout</u> of fundamental elements in the <u>interface</u>. Typically, wireframes are completed before any artwork is developed.



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