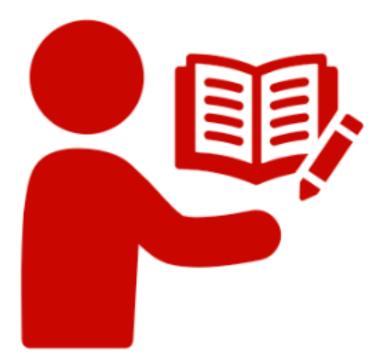


Learning Resources

## Learning Resources

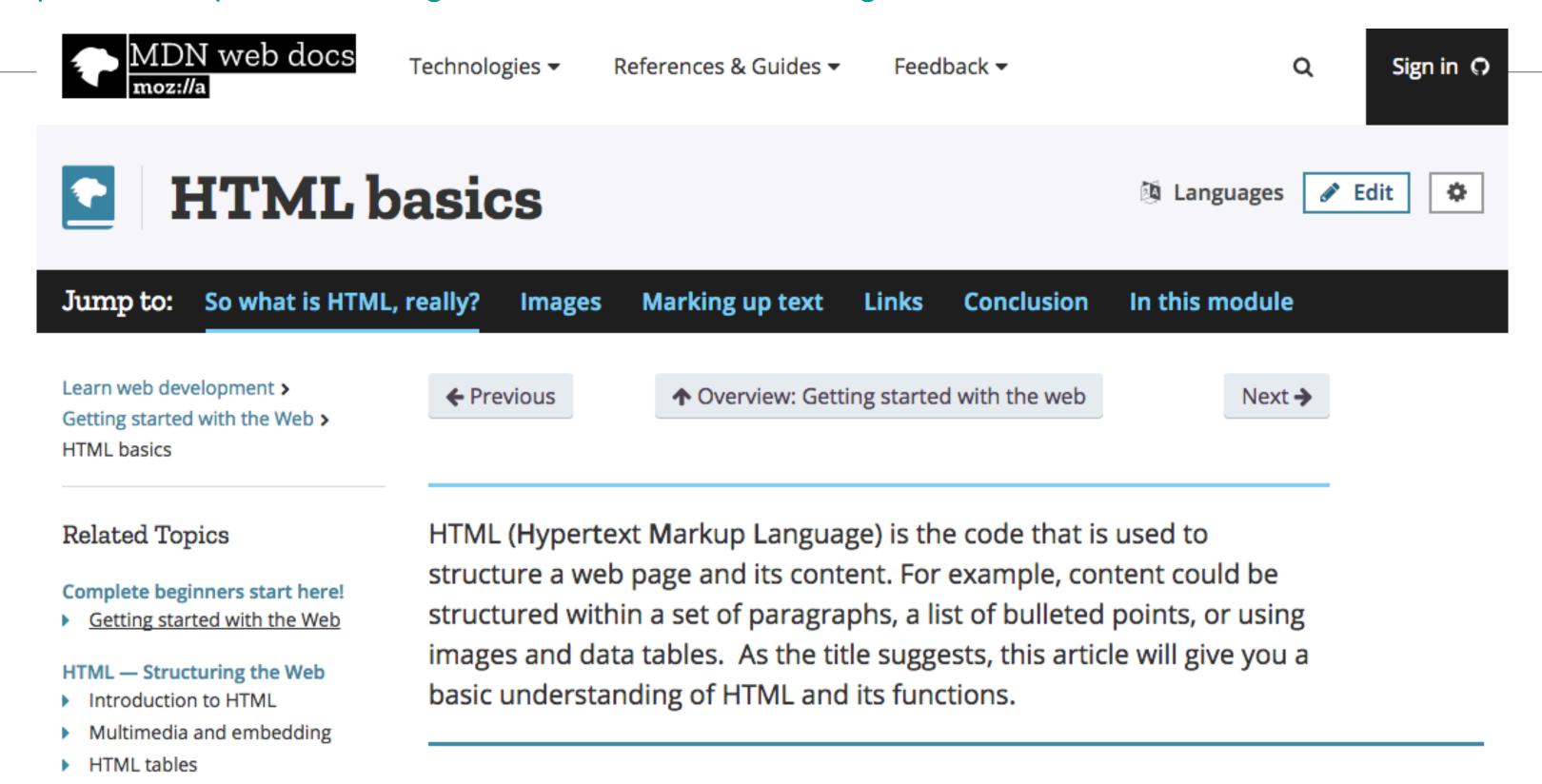




Useful web and text book resources

### Useful Web Resource: MDN Web Docs

https://developer.mozilla.org/en-US/docs/Learn/Getting started with the web/HTML basics



### So what is HTML, really?

HTML is not a programming language; it is a markup language that defines the structure of your content. HTML consists of a series of elements, which you use to enclose, or wrap, different parts of the content to make it appear a certain way, or act a certain way. The enclosing tags can make a word or image hyperlink to somewhere else, can italicize words, and can make font bigger or smaller, and so on. For example, take the following line of content:

### CSS — Styling the Web

- Introduction to CSS
- Styling text

HTML forms

- Styling boxes
- CSS layout

#### JavaScript — Dynamic client-side scripting

- JavaScript first steps
- JavaScript building blocks
- Introducing JavaScript objects





# HTML: Structuring the Web

Introduction to HTML

Introduction to HTML overview

Getting started with HTML

What's in the head? Metadata in HTML

HTML text fundamentals

Creating hyperlinks

Advanced text formatting

Document and website structure

Debugging HTML

Assessment: Marking up a letter

Assessment: Structuring a page of

content

Multimedia and embedding

Multimedia and embedding overview

Images in HTML

Video and audio content

From object to iframe — other embedding technologies

Adding vector graphics to the Web

Responsive images

Assessment: Mozilla splash page





## HTML: Structuring the Web

HTML tables

HTML tables overview

HTML table basics

HTML Table advanced features and accessibility

Assessment: Structuring planet data

HTML forms

HTML forms overview

Your first HTML form

How to structure an HTML form

The native form widgets

Sending form data

Form validation

How to build custom form widgets

Sending forms through JavaScript

HTML forms in legacy browsers

Styling HTML forms

Advanced styling for HTML forms

Property compatibility table for form widgets





## CSS: Styling the Web

Introduction to CSS

Introduction to CSS overview

**How CSS works** 

CSS syntax

Selectors introduction

Simple selectors

Attribute selectors

Pseudo-classes and pseudo-elements

Combinators and multiple selectors

CSS values and units

Cascade and inheritance

The box model

**Debugging CSS** 

Assessment: Fundamental CSS comprehension

Styling text

Styling text overview

Fundamental text and font styling

Styling lists

Styling links

Web fonts

Assessment: Typesetting a community school homepage





# CSS: Styling the Web

Styling boxes

Styling boxes overview

Box model recap

Backgrounds

Borders

Styling tables

Advanced box effects

Assessment: Creating fancy letterheaded paper

Assessment: A cool-looking box

CSS layout

CSS layout overview

Introduction

Floats

Positioning

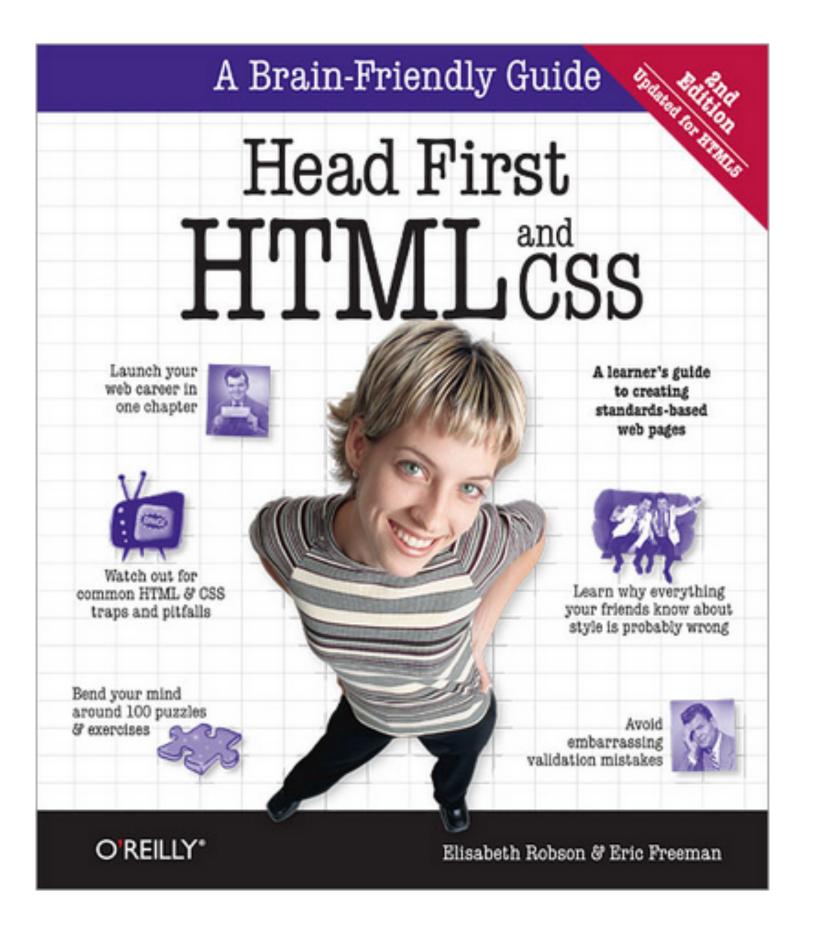
Practical positioning examples

Flexbox

Grids

### Useful Text

Head First HTML and CSS, 2<sup>nd</sup>
 Edition. By Freeman, Elisabeth and Eric Freeman. 2012. <u>Head First HTML</u> with CSS & XHTML. O'Reilly & Associates. 658 p. ISBN 978-0-596-15990-0



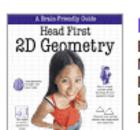
#### Head First Programming

By David Griffiths, Paul Barry November 2009 Print: \$49.99 Ebook: \$39.99

Bundle: \$54.99

If you have little or no programming experience

started with the core concepts of writing computer programs -functions, and objects --... Read more.



#### Head First 2D Geometry

By Lindsey Fallow, Dawn Griffiths November 2009

Print: \$19.99 Ebook: \$15.99 Bundle: \$21.99

Having trouble with geometry? Do Pi, the Pytha calculations just make your head spin? Relax. With Head First 21 everything from triangles, quads, and... Read more.



#### Head First iPhone Development

By Dan Pilone, Tracey Pilone October 2009 Print: \$44.99 Ebook: \$35.99 Bundle: \$49.49

Let's say you have an idea for a killer iPhone a Head First iPhone Development will help you get your first applic

Read more.



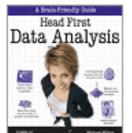
#### Head First PMP, Second Edition

By Jennifer Greene, Andrew Stellman

July 2009 Print: \$69.99 Ebook: \$55.99 Bundle: \$76.99

Learn the latest principles and certification obje Fourth Edition, in a unique and inspiring way with Head First PMF

book helps... Read more.



#### Head First Data Analysis

By Michael Milton July 2009 Print: \$49.99 Ebook: \$39.99 Bundle: \$54.99

How can you learn to manage and analyze all k

First Data Analysis, where you'll learn how to collect and organiz



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Brain-Friendly Guides from O'Reilly Media, Inc.



## Head First Labs



Books

Forums



D. F.

### New Year, Lots of New Books (and an iPhone app)!

Are you sitting down? Hopefully you are, because we've got a lot to discuss here. Since the last time we posted, we've released four more new books, and an iPhone app to boot. Speaking of iPhone apps, let's start with one of the more recent books we just published...

#### Head First iPhone Development

In true Head First fashion, you'll be building an app right out of the gate in the first chapter of Head First iPhone Development. Obviously, if you want to build iPhone apps, you want to sell them in the app store, so the book is geared towards getting you creating apps quickly, and also focuses on designing top-notch apps and how to navigate the app submission process. Back in November, co-author Dan Pilone taught a great workshop, Build, Compile, and Run Your iPhone App in 2 days, which covered a lot of the material in the book, namely, getting a developer who knows how to code in an Object Oriented environment coding on a Mac in Objective-C. And Tracey Pilone (co-pilot of the most prolific Head First writing couple since Kathy and Bert!) also recently posted over on the O'Reilly Community blog about her experience as a Head First author, which is a great read for any aspiring Head First authors. (You can follow them both on Twitter as @danpilone and @traceypilone.)

#### Head First Programming

Completely new to programming? Based on experience with Head First's successful books on programming languages, design patterns, and technologies, learners have long been clamoring for a general Head First introduction to programming for the absolute beginner. In November, Paul Barry and Head First veteran David Griffiths teamed up to finally fill that need with Head First Programming. Of course, this being Head First, you can forget "Hello, World!" and pages upon pages of dull, dry, boring text you'll never apply to real-world problems. By the time you've worked through the first few chapters of this book, you'll have written a numeric guessing game and interfaced with Twitter's API. And by the end of the book, you'll have a completely functional and attractive graphical desktop application! Though the authors use the dynamic and versatile Python language to apply and reinforce the general programming concepts illustrated in concrete examples and exercises, you'll be able to apply this knowledge to whatever language or software project you need or want to learn.



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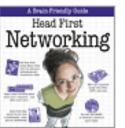
Looking for source files, code, exercise answers, and other materials to go along with your Head First book? Go to this page, find your book on the list, and click on the title.

#### The Latest Head First Tweets!

Head First (Excel and Data Analysis) author @michaelmilton's Google Apps for Business course starts today! http://oreil.ly/9X4IIa 2 days ago

RT @mikehatora: Potential free book: 2 Question Survey-Mobile Platform for development, & why? http://bit.ly/aQwnid 7 days

Follow Head First Labs on Twitter!



#### Head First Networking

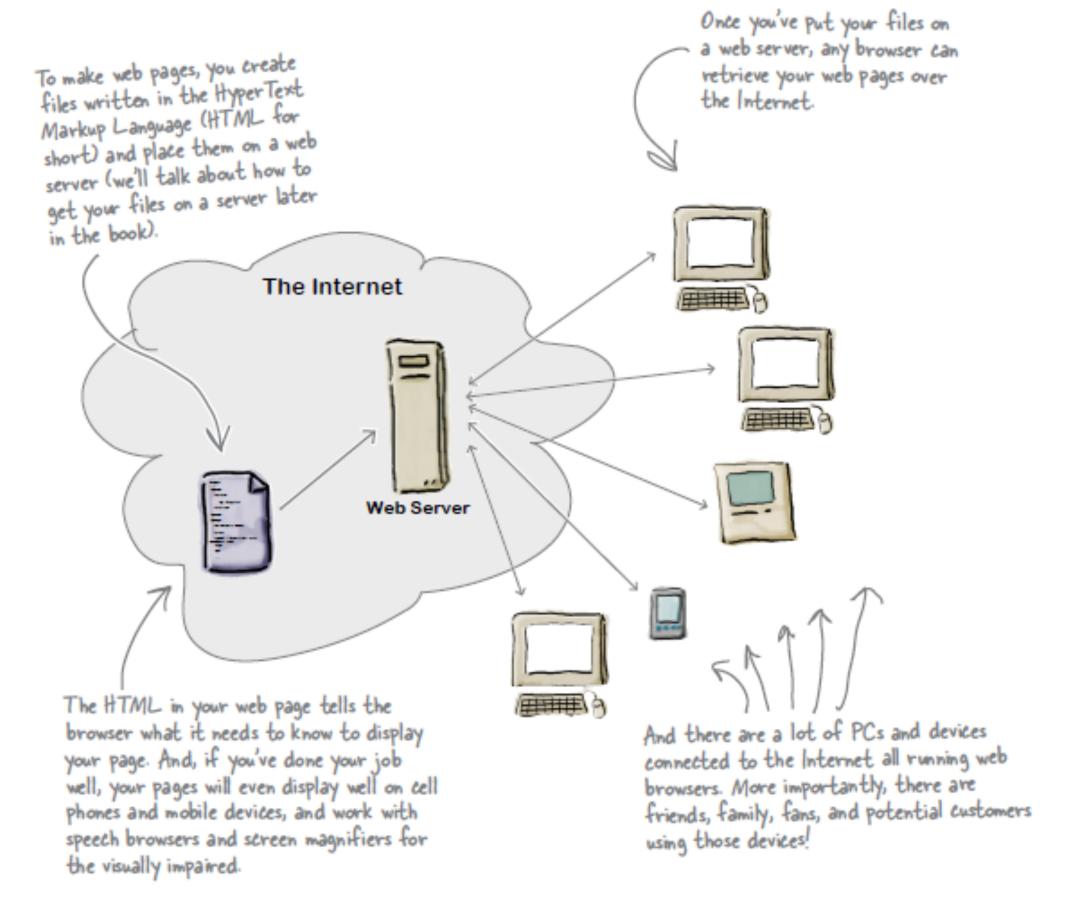
By Al Anderson, Ryan Benedetti May 2009

Print: \$54.99 Ebook: \$43.99 Bundle: \$60.49

### The Web Video killed the radio star

Want to get an idea out there? Sell something? Just need a creative outlet? Turn to the Web—we don't need to tell you it has become the universal form of communication. Even better, it's a form of communication YOU can participate in.

But if you really want to use the Web effectively, you've got to know a few things about **HTML**—not to mention, a few things about how the Web works too. Let's take a look from 30,000 feet:



A flavour of the book...

### What you write (the HTML)

So, you know HTML is the key to getting a browser to display your pages, but what exactly does HTML look like? And what does it do?

Let's have a look at a little HTML...imagine you're going to create a web page to advertise the *Head First Lounge*, a local hangout with some good tunes, refreshing elixirs, and wireless access. Here's what you'd write in HTML:

```
<html>
  <head>
   <title>Head First Lounge</title>
  </head>
  <body>
   <h1>Welcome to the Head First Lounge</h1>
   <img src="drinks.gif"> ©
   >
      Join us any evening for refreshing elixirs,
      conversation and maybe a game or
      two of <em>Dance Dance Revolution</em>.
      Wireless access is always provided;
      BYOWS (Bring your own web server).
   <h2>Directions</h2>
   You'll find us right in the center of
      downtown Webville. Come join us!
   </body>
</html>
```

### We don't expect you to know HTML yet.

At this point you should just be getting a feel for what HTML looks like; we're going to cover everything in detail in a bit. For now, study the HTML and see how it gets represented in the browser on the next page. Be sure to pay careful attention to each letter annotation and how and where it is displayed in the browser.

### What the browser creates

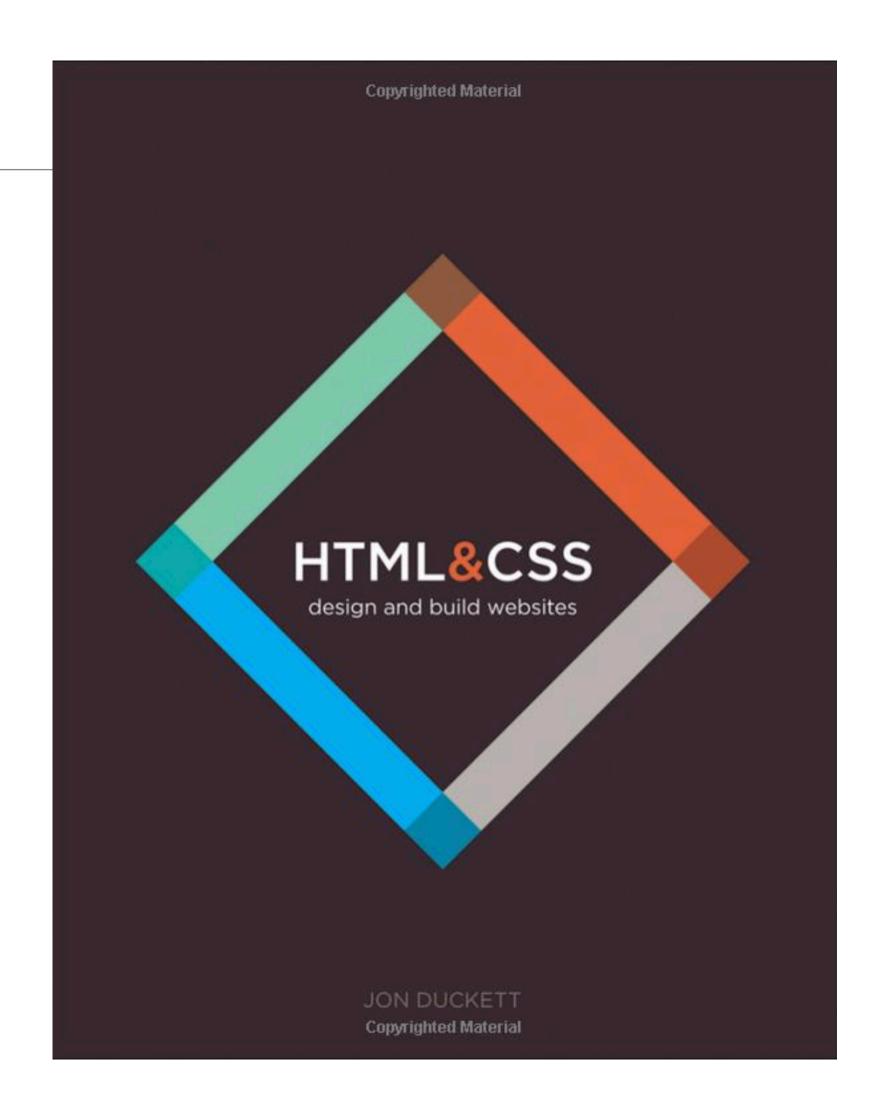
When the browser reads your HTML, it interprets all the tags that surround your text. Tags are just words or characters in angle brackets, like <head>, , <h1>, and so on. The tags tell the browser about the structure and meaning of your text. So rather than just giving the browser a bunch of text, with HTML you can use tags to tell the browser what text is in a heading, what text is a paragraph, what text needs to be emphasized, or even where images need to be placed.

Let's check out how the browser interprets the tags in the Notice how each tag in Head First Lounge: Head First Lounge ¢ (Q-Welcome to the Head First Lounge ® Join us any evening for refreshing elixirs, conversation and maybe a game or two of Dance Dance Revolution. Wireless access is always provided; BYOWS (Bring your own web server). Directions (F) (G) You'll find us right in the center of downtown Webville. Come join us!

A flavour of the book...

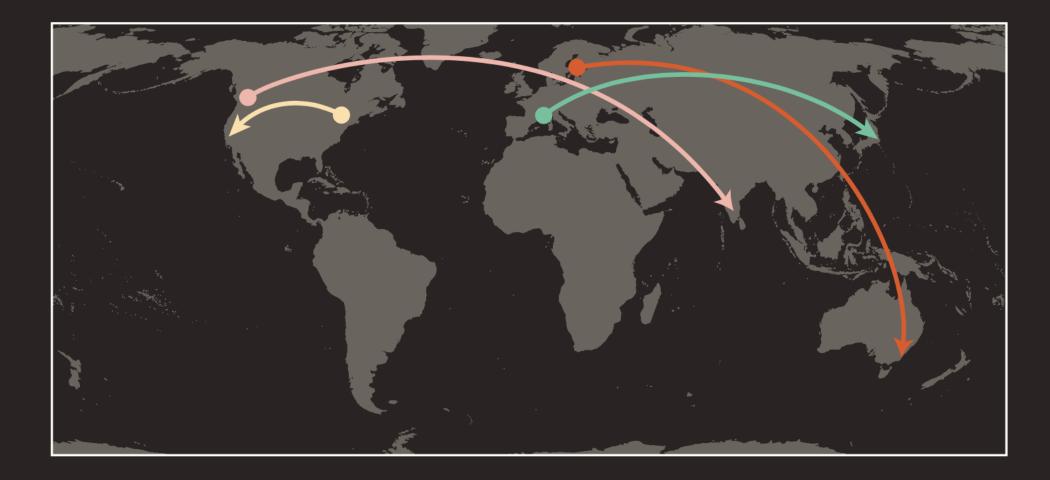
### Another Useful Text

 HTML and CSS: Design and Build Websites. By Jon Duckett. 2011. John Wiley & Sons; 01 edition (18 Nov. 2011), 512 pages, ISBN-10: 1118008189



### HOW THE WEB WORKS

When you visit a website, the web server hosting that site could be anywhere in the world. In order for you to find the location of the web server, your browser will first connect to a Domain Name System (DNS) server.



On this page you can see examples that demonstrate how the web server that hosts the website you are visiting can be anywhere in the world. It is the DNS servers that tell your browser how to find the website.

- A user in Barcelona visits sony.jp in Tokyo
- A user in New York visits google.com in San Francisco
- A user in Stockholm visits qantas.com.au in Sydney
- A user in Vancouver visits airindia.in in Bangalore

On the right you can see what happens when a web user in England wants to view the website of the Louvre art gallery in France which is located at www.louvre.fr. Firstly, the browser in Cambridge contacts a DNS server in London. The DNS server then tells the browser the location of the web server hosting the site in Paris.

A flavour of the book...



### HTML USES ELEMENTS TO DESCRIBE THE STRUCTURE OF PAGES

Let's look closer at the code from the last page. There are several different elements. Each element has an opening tag and a closing tag.

Tags act like containers. They tell you something about the information that lies between their opening and closing tags.

#### CODE

