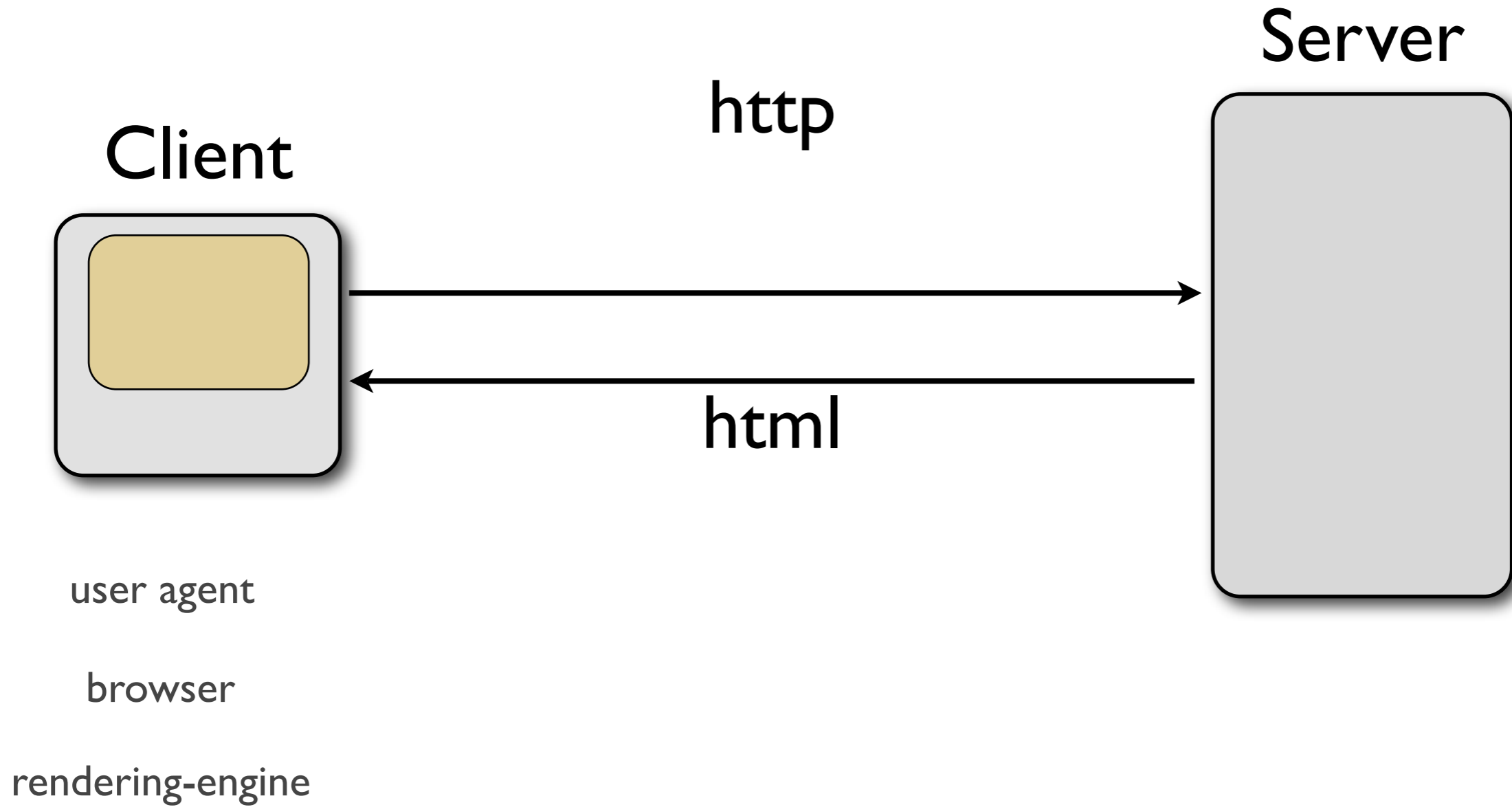


# (X)HTML a (re)introduction

# The Internet



# HTML and XHTML

- **Hypertext Markup Language (HTML)** is the programming specification for how web pages can be written so they will be understood and properly displayed by computers.
- XHTML is HTML written following XML specification.



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#### News

## XHTML 2 Working Group Expected to Stop Work End of 2009, W3C to Increase Resources on HTML 5

2009-07-02: Today the Director announces that when the [XHTML 2 Working Group charter](#) expires as scheduled at the end of 2009, the charter will not be renewed. By doing so, and by increasing resources in the [HTML Working Group](#), W3C hopes to accelerate the progress of [HTML 5](#) and clarify W3C's position regarding the future of HTML. A [FAQ](#) answers questions about the future of deliverables of the XHTML 2 Working Group, and the status of various discussions related to HTML. Learn more about the [HTML Activity](#). ([Permalink](#))

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##### Marden Edwards Limited



Marden Edwards Ltd provides the manufacturing of bespoke packaging equipment and machines, and works toward creating an accessible workplace in the industrial sector. This is reflected online with its support of

# What is Markup?

## A Really Short Story

### Chapter 1

It was a cold and rainy afternoon. Leaves, torn from branches, whipped the air until they settled on a home far from their origin. I struggled to write more.

### Chapter 2

My pen felt heavy in my hand, it had been months since I had written chapter one. I finally realized that I was indeed "not a writer."

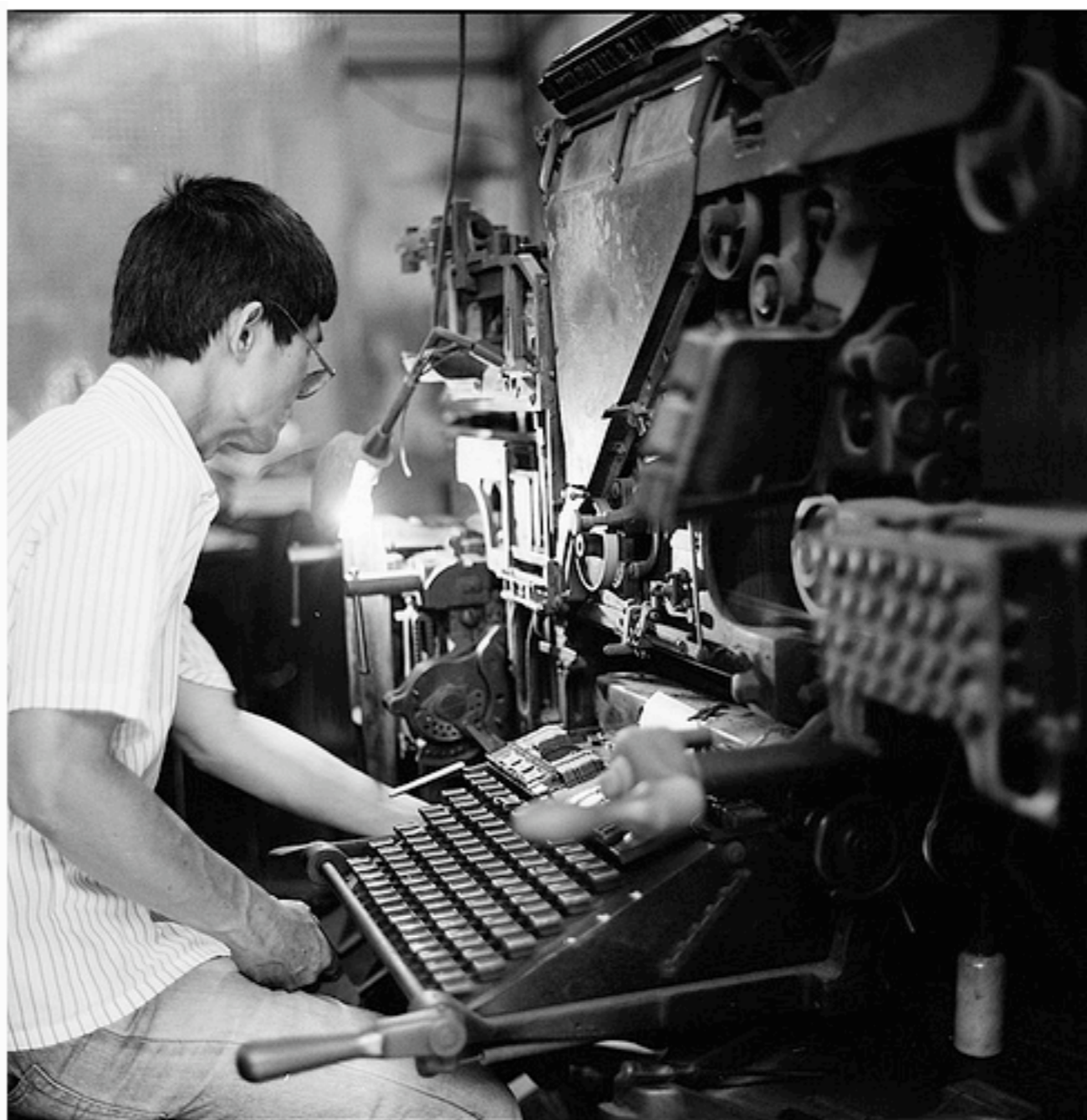
A Really Short Story <sup>TITLE</sup>

Chapter 1 — HEADING

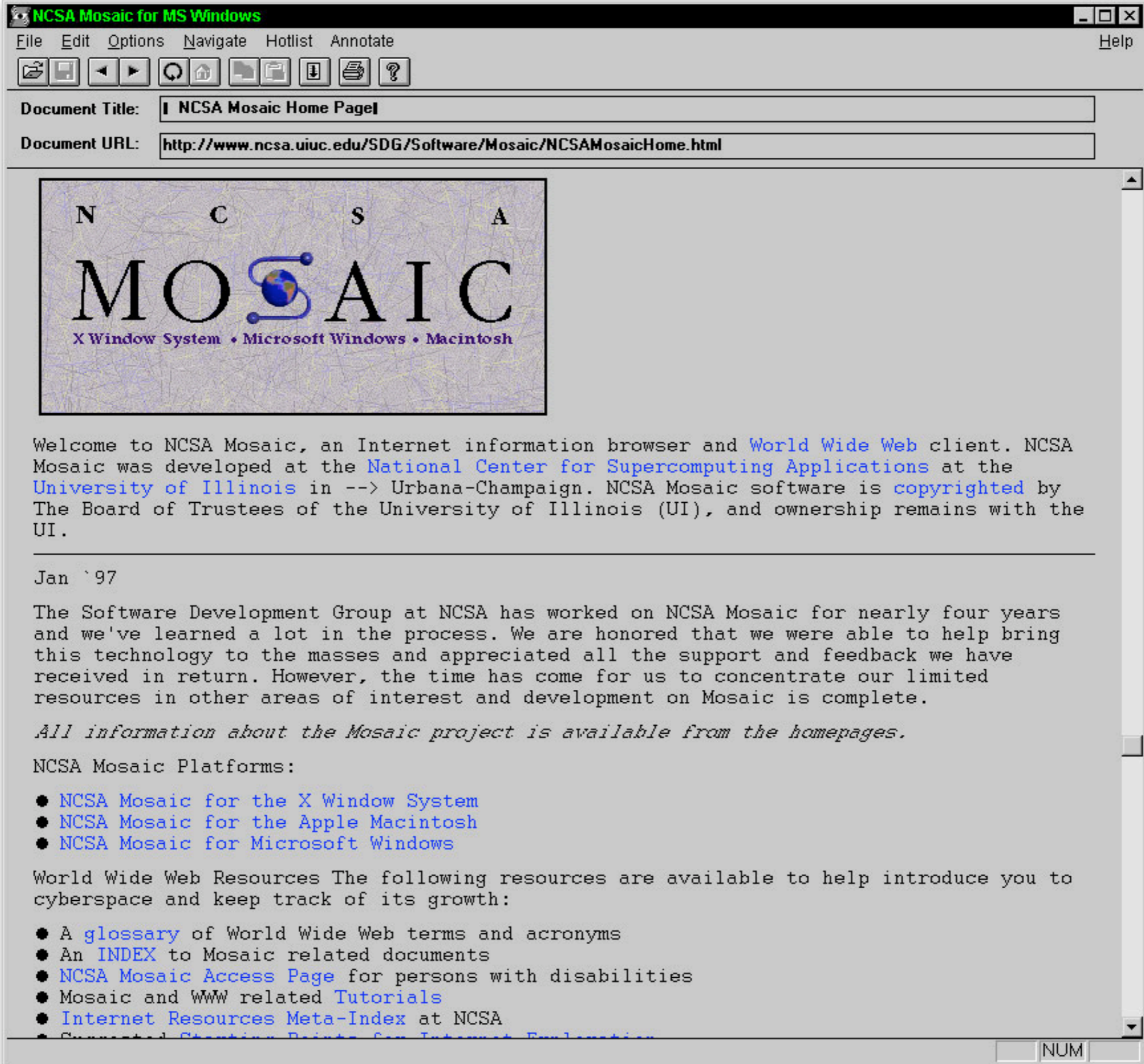
para { It was a cold and rainy afternoon. Leaves, torn from branches, whipped the air until they settled on a home far from their origin. I struggled to write more.

Chapter 2 — HEADING

para { My pen felt heavy in my hand, it had been months since I had written chapter one. I finally realized that I was indeed "not a writer."



<http://www.flickr.com/photos/lcy/3328966783/>



## A Really Short Story

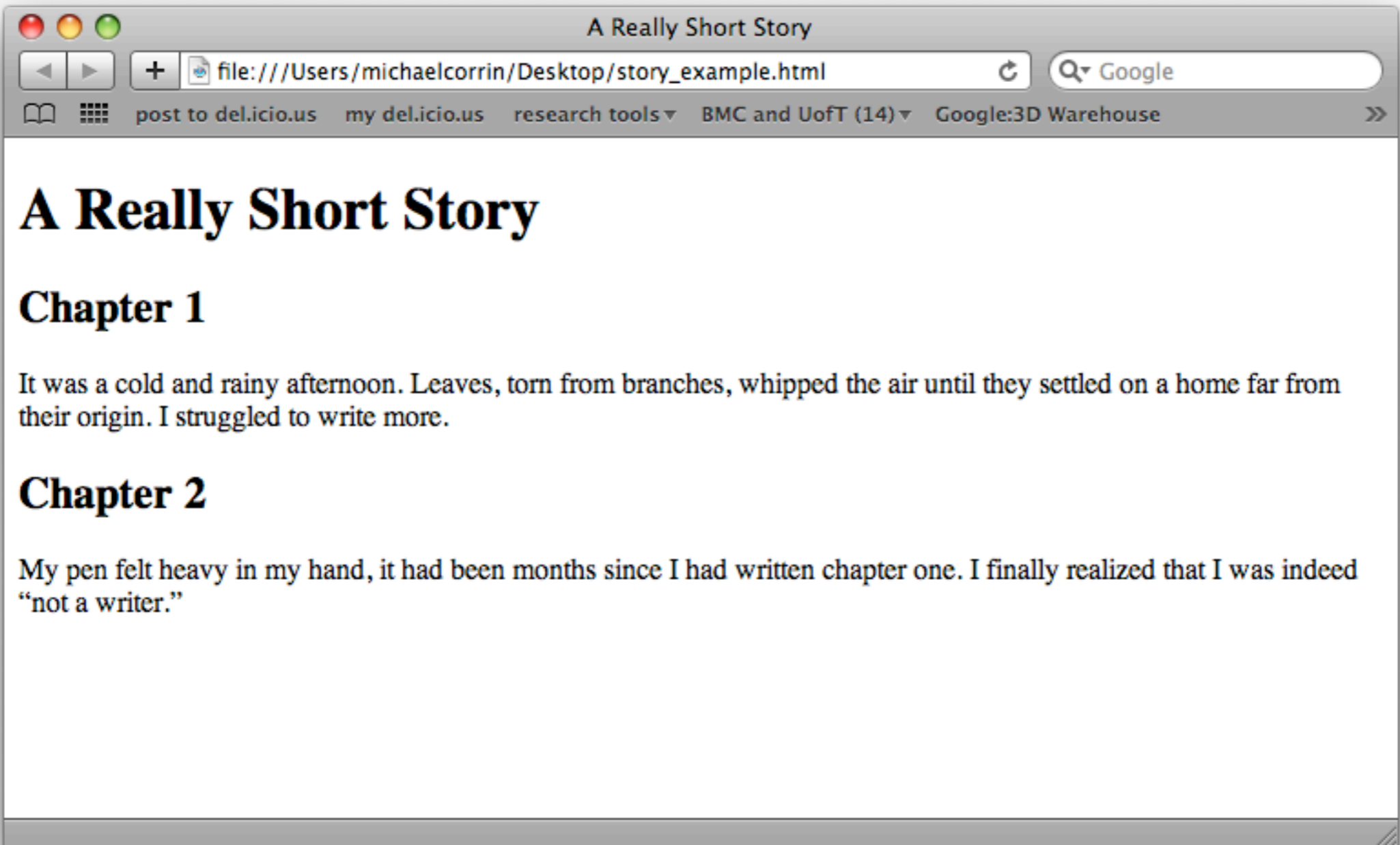
### Chapter I

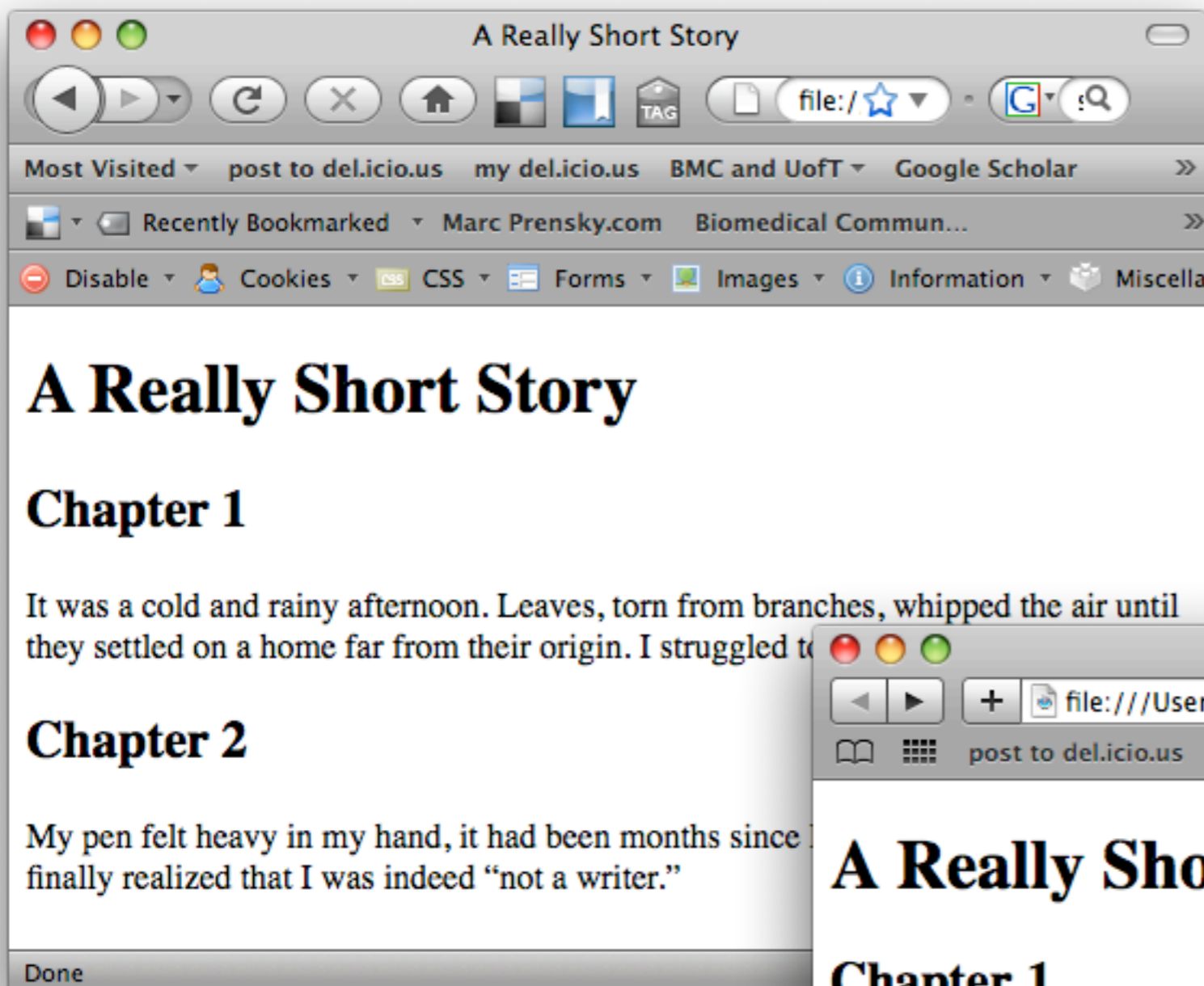
It was a cold and rainy afternoon. Leaves, torn from branches, whipped the air until they settled on a home far from their origin. I struggled to write more.

A Really Short Story Chapter I It was a cold and rainy afternoon. Leaves, torn...

```
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>A Really Short Story</title>
  </head>

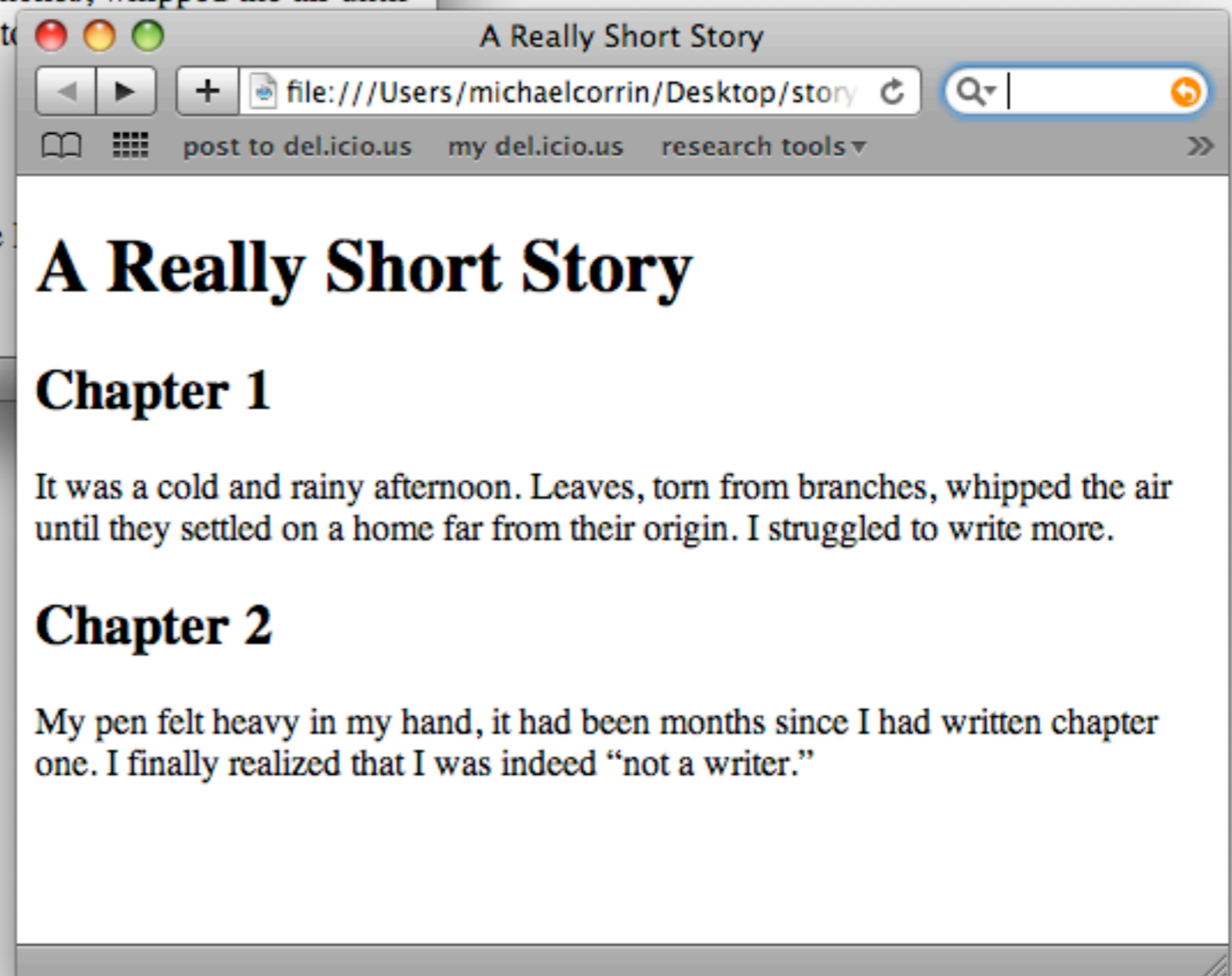
  <body>
    <h1>A Really Short Story</h1>
    <h2>Chapter 1</h2>
    <p>It was a cold and rainy afternoon. Leaves, torn from branches,
    whipped the air until they settled on a home far from their origin. I
    struggled to write more.</p>
    <h2>Chapter 2</h2>
    <p>My pen felt heavy in my hand, it had been months since I had written
    chapter one. I finally realized that I was indeed “not a writer.”</p>
  </body>
</html>
```





Most modern browsers recognize the standard HTML elements defined in W3C recommendations for HTML4 and each has a default way of rendering the element on screen.

Not all browsers render the same elements in the same way.



**HTML deals with two things:**

- **document structure**
- **document content**

**HTML should not deal with *document presentation!***

**What is the structure of an HTML document?**

**What is the structure of an HTML document?**

**OR**

**What goes into to baking an HTML pie?**

# The Basic Unit :The Element

`<element>`

`</element>`

opening tag

closing tag

`<element>` content that will appear on screen `</element>`

opening tag

closing tag

**<element>** content that will appear on screen **</element>**

**<el2> </el2> <el3> </el3>**

opening tag

closing tag

`<el2>` and `<el3>` are said to be *nested in* `<element>`

`<element>` opening tag content that will appear on screen `</element>` closing tag

`<el2>` `</el2>` `<el3>` `</el3>`

Not correct

`<h1>` `<span>` Hello `</h1>` `</span>`

Correct

`<h1>` `<span>` Hello `</span>` `</h1>`

Not correct

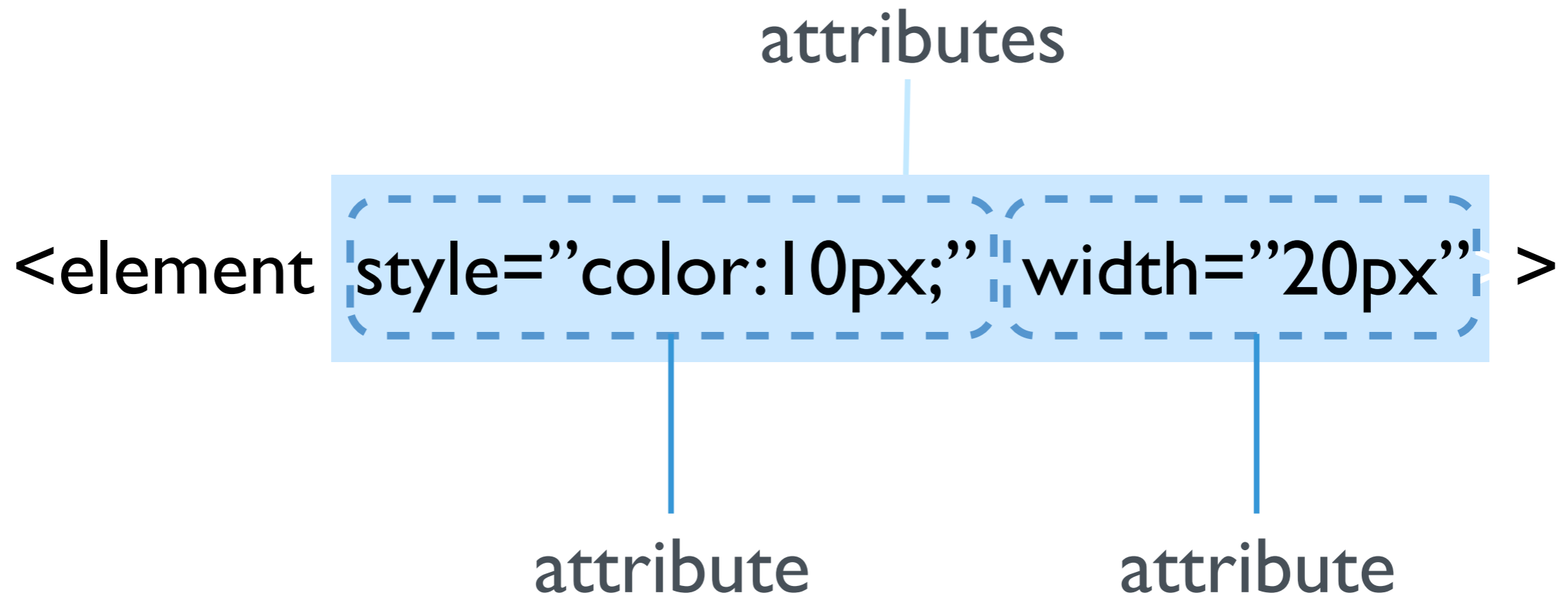
`<h1>` `<span>` Hello `</h1>` `</span>`

$\langle h | \rangle$  is not equal to  $\langle H | \rangle$

<element> </element>

attributes

<element style="color:10px;" width="20px">



`<a href="http://www.w3.org/"> W3C </a>`

```
<a href="http://www.w3.org/"> W3C </a>
```

```

```

```

```

`<br> </br>`

<br>

**<br />**

<br>

# The Document Superstructure

## Begin with an XHTML DTD

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<html>  
</html>
```

```
<html>  
  <head></head>  
</html>
```

```
<html>  
  <head>  
    <title></title>  
  </head>  
</html>
```

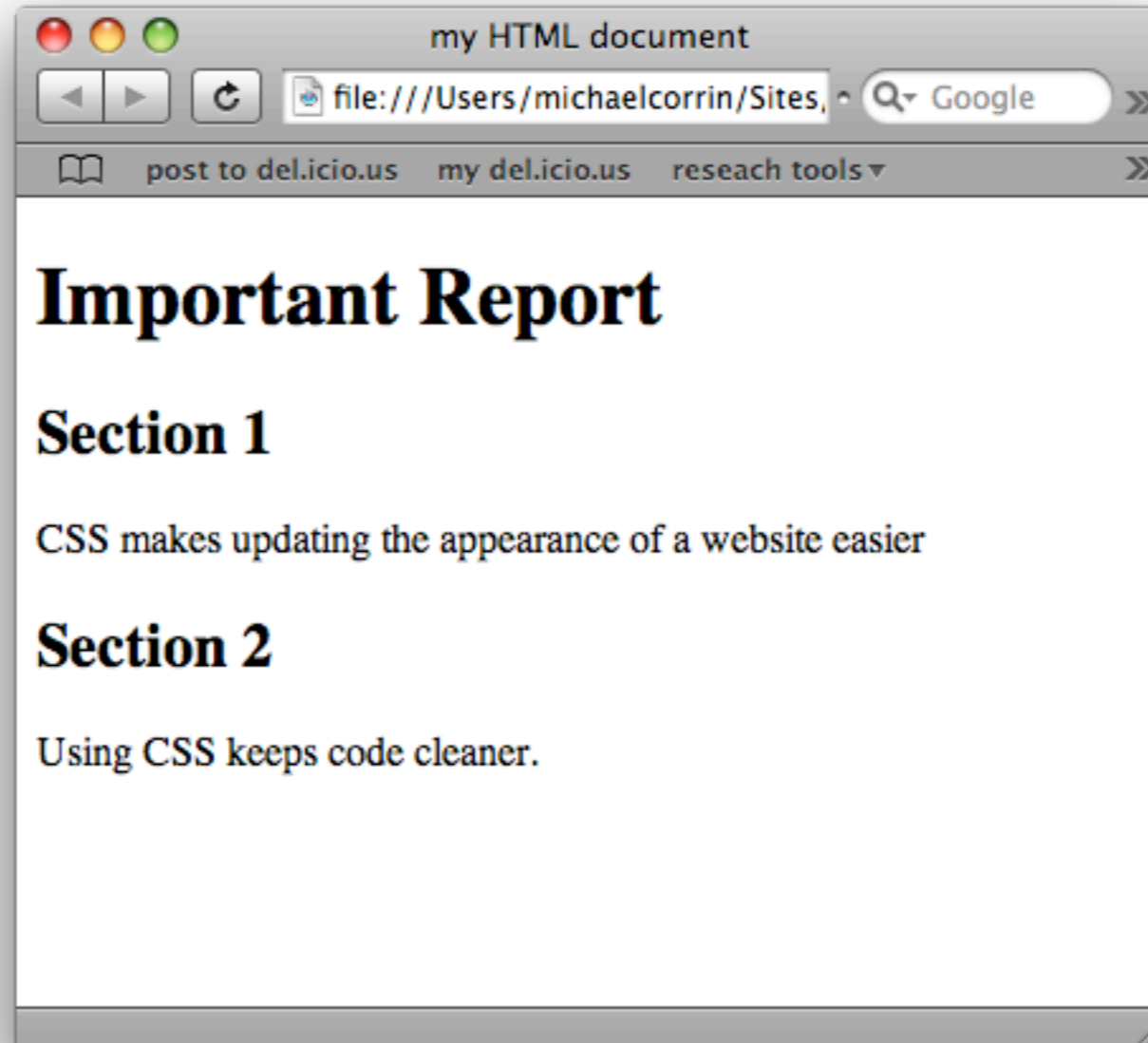
```
<html>  
  <head>  
    <title></title>  
  </head>  
  <body>  
  </body>  
</html>
```

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

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

**content  
to be  
rendered**

```
<html>
  <head>
    <title></title>
  </head>
  <body>
    <h1>Important Report</h1>
    <h2>Section 1</h2>
    <p>CSS makes updating the
    appearance of a website
    easier.</p>
    <h2>Section 2</h2>
    <p>Using CSS keeps code
    cleaner.</p>
  </body>
</html>
```



Some HTML elements you should know

`<h1>The Heading Level 1 Element</h1>`

`<h1>`The Heading Level 1 Element`</h1>`

`<h1>The Heading Level 1 Element</h1>`

`<h2>The Heading Level 2 Element</h2>`

`<h3>The Heading Level 3 Element</h3>`

`<h4>The Heading Level 4 Element</h4>`

<h1></h1>

<h2></h2>

<h2></h2>

<h1></h1>

<h2></h2>

<h3></h3>

<h3></h3>

<h2></h2>

`<p>The Paragraph Element</p>`

`<p>`The Paragraph Element`</p>`

`<ul>The Unordered List Element</ul>`

`<ul>`The Unordered List Element`</ul>`

```
<ul>  
  <li>Item 1</li>  
  <li>Item 2</li>  
  <li>Item 3</li>  
</ul>
```

- Item 1
- Item 2
- Item 3

```
<ul>  
  <li>Item 1</li>  
  <li>Item 2</li>  
  <li>Item 3</li>  
</ul>
```

```
<table>
  <tr>
    <td>Name</td>
    <td>Age</td>
  </tr>
  <tr>
    <td>Bobby</td>
    <td>4</td>
  </tr>
</table>
```

```
<table>
```

```
<tr>
```

```
<td>Name</td>
```

```
<td>Age</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Bobby</td>
```

```
<td>4</td>
```

```
</tr>
```

```
</table>
```

Name	Age
Bobby	4

```
<table>  
  <tr>  
    <td>Name</td>  
    <td>Age</td>  
  </tr>  
  <tr>  
    <td>Bobby</td>  
    <td>4</td>  
  </tr>  
</table>
```

<!-- comments go here -->

```
<!-- comments go here -->
```

`<a href="http://www.w3.org/"> W3C </a>`

```
<a href="http://www.w3.org/">W3C </a>
```

```
<a name="chapter 1" id="chapter 1"> </a>
```

```
<a name="chapter I" id="chapter I"> </a>
```

# Using Named Anchors

index.html

```
<body>
<h1>Table of Contents</h1>
<a href="story.html#chapter1"> The Story Chapter 1 </a>
<a href="story.html#chapter2"> The Story Chapter 2 </a>
<a href="story.html#chapter3"> The Story Chapter 3 </a>
</body>
```

story.html

```
<!-- HTML code -->
<body>
<a name="chapter1" id="chapter1"> </a>
<h1>Chapter 1</h1>
<p>Lots of text...</p>
<a name="chapter2" id="chapter2"> </a>
<h1>Chapter 2</h1>
<p>Lots of text...</p>
</body>
```

`<form> </form>`

`<form> </form>`

Text fields

Checkboxes

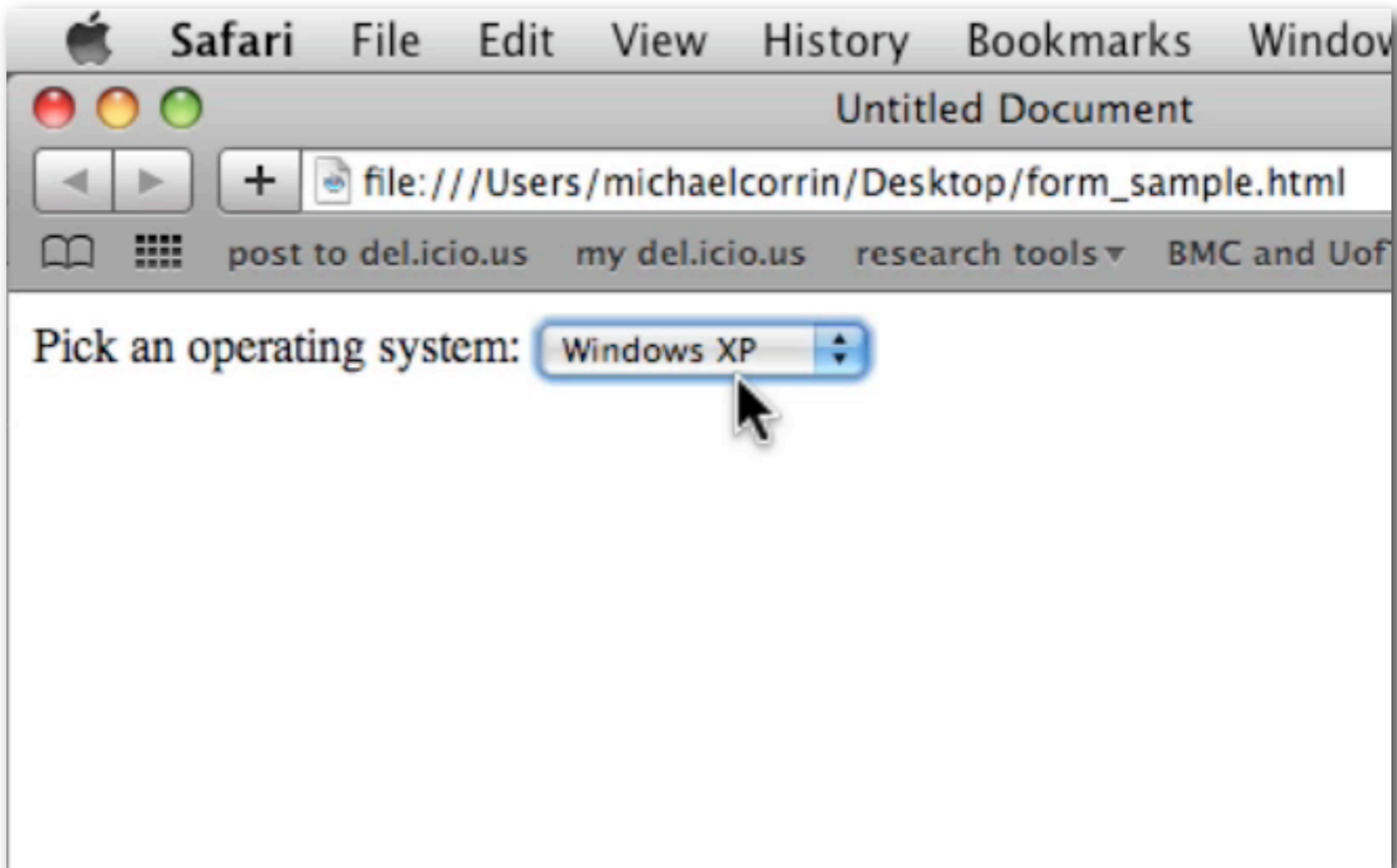
Radio buttons

Buttons

Lists and Menus

```
<body>
<form id="form1" name="form1" method="post" action="">
  Pick an operating system:
  <select name="combo1" id="combo1">
    <option value="0" selected="selected">OSX</option>
    <option value="1">Windows XP</option>
    <option value="2">Windows Vista</option>
    <option value="3">Linux</option>
  </select>
</form>
</body>
```





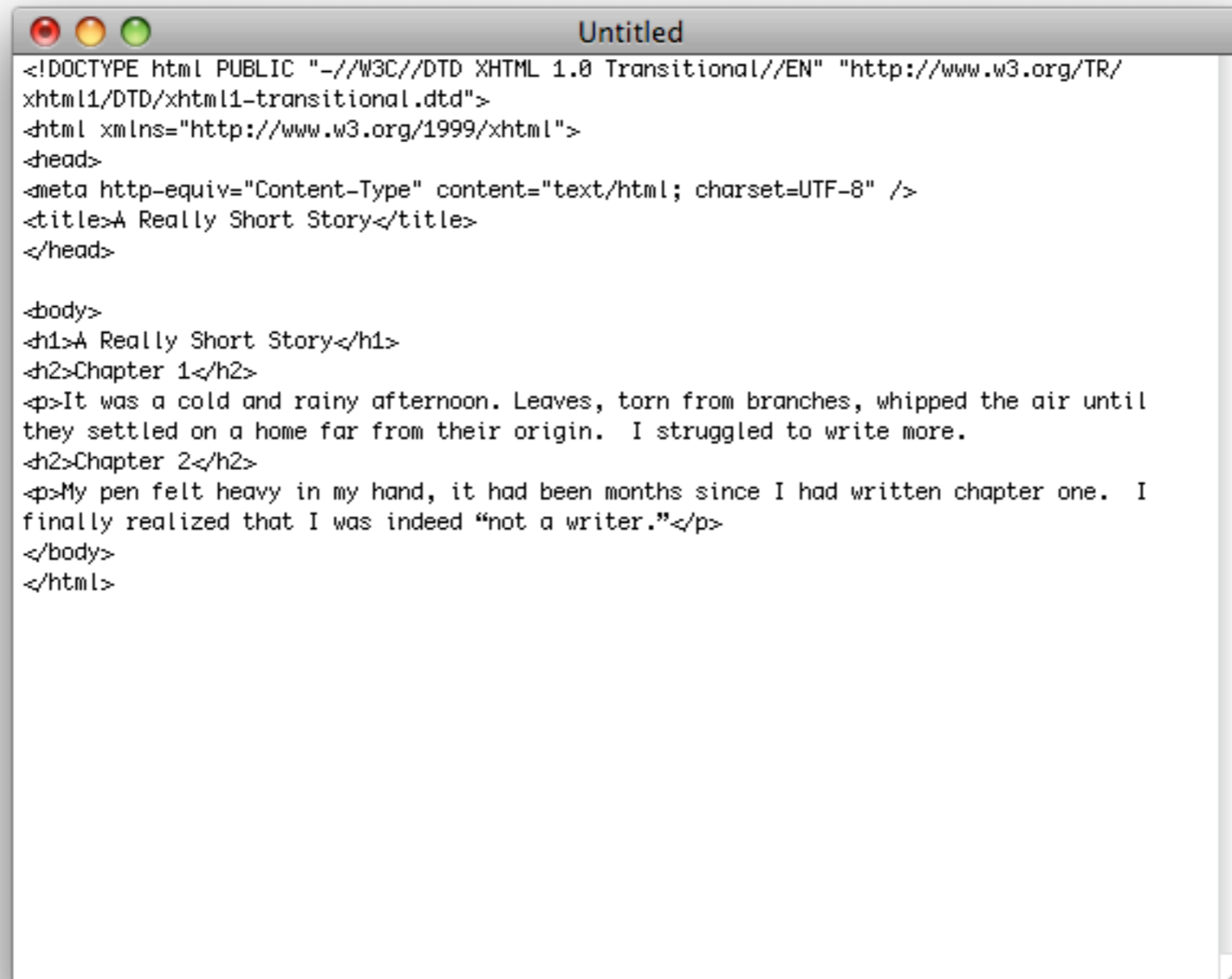
**You can't bake a pie without an oven.**

**You can't bake a pie without an oven.**

**OR**

**Tools for writing HTML.**

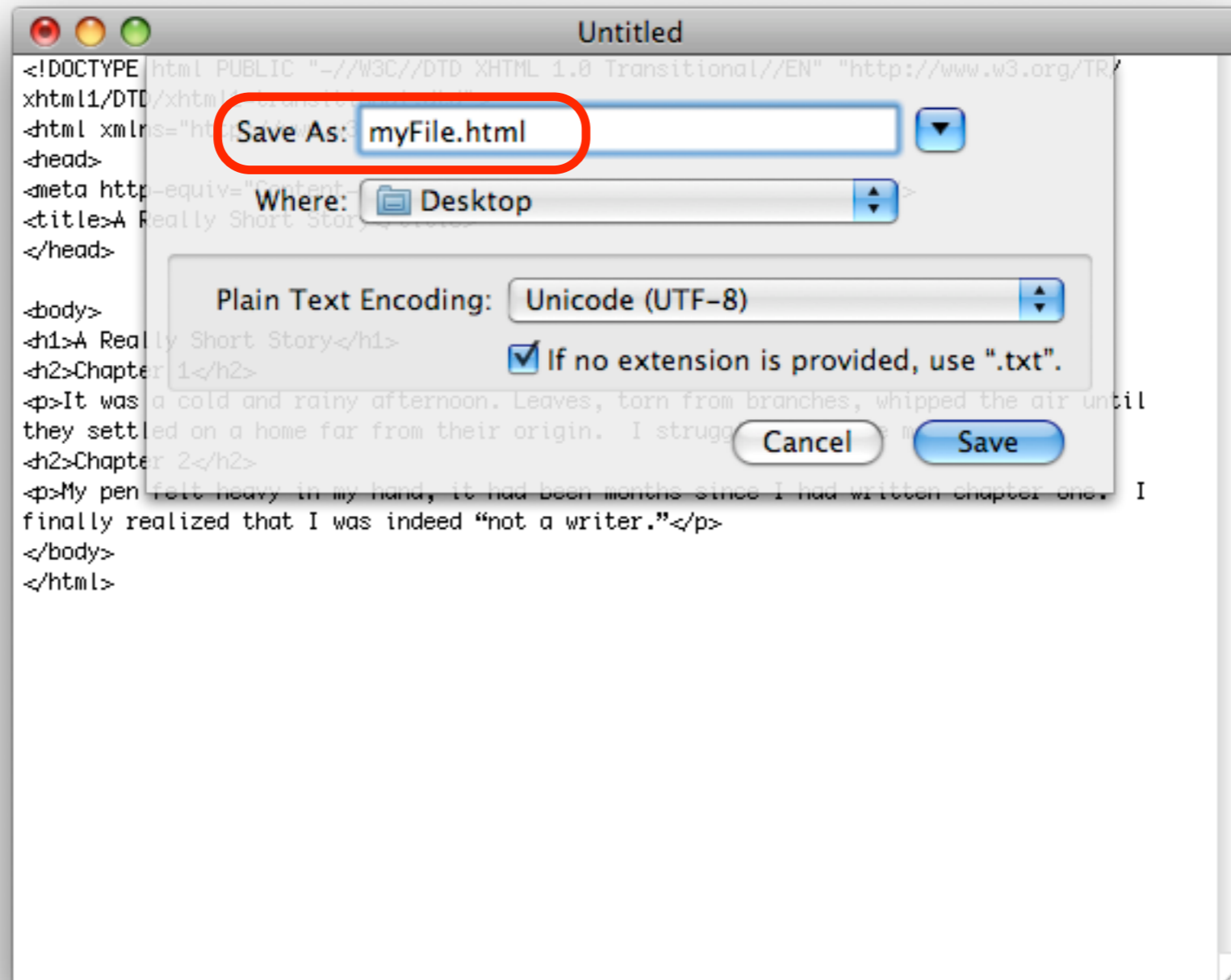
# A Plain Text Editor



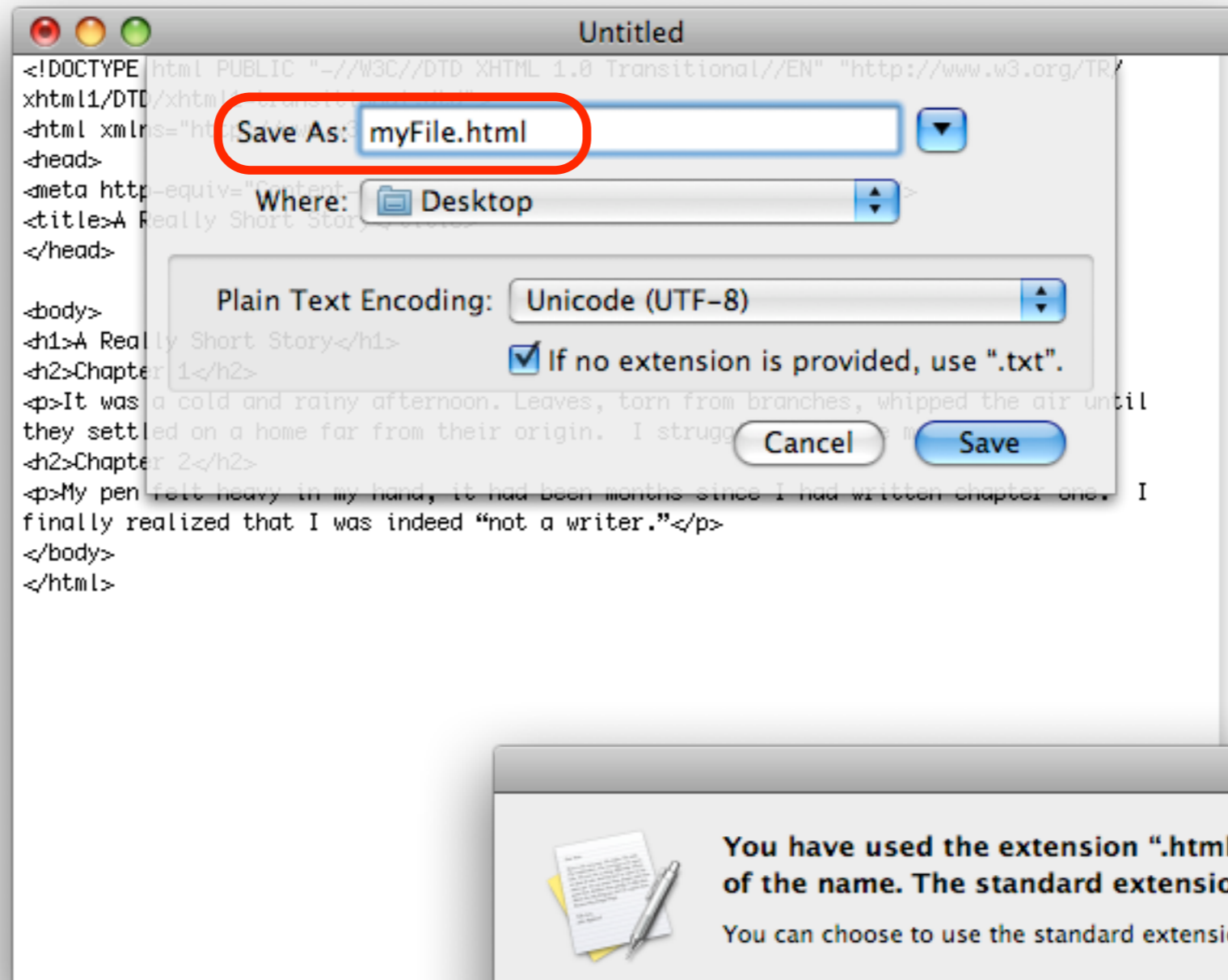
```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/
xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>A Really Short Story</title>
</head>

<body>
<h1>A Really Short Story</h1>
<h2>Chapter 1</h2>
<p>It was a cold and rainy afternoon. Leaves, torn from branches, whipped the air until
they settled on a home far from their origin. I struggled to write more.
<h2>Chapter 2</h2>
<p>My pen felt heavy in my hand, it had been months since I had written chapter one. I
finally realized that I was indeed "not a writer."</p>
</body>
</html>
```

# A Plain Text Editor



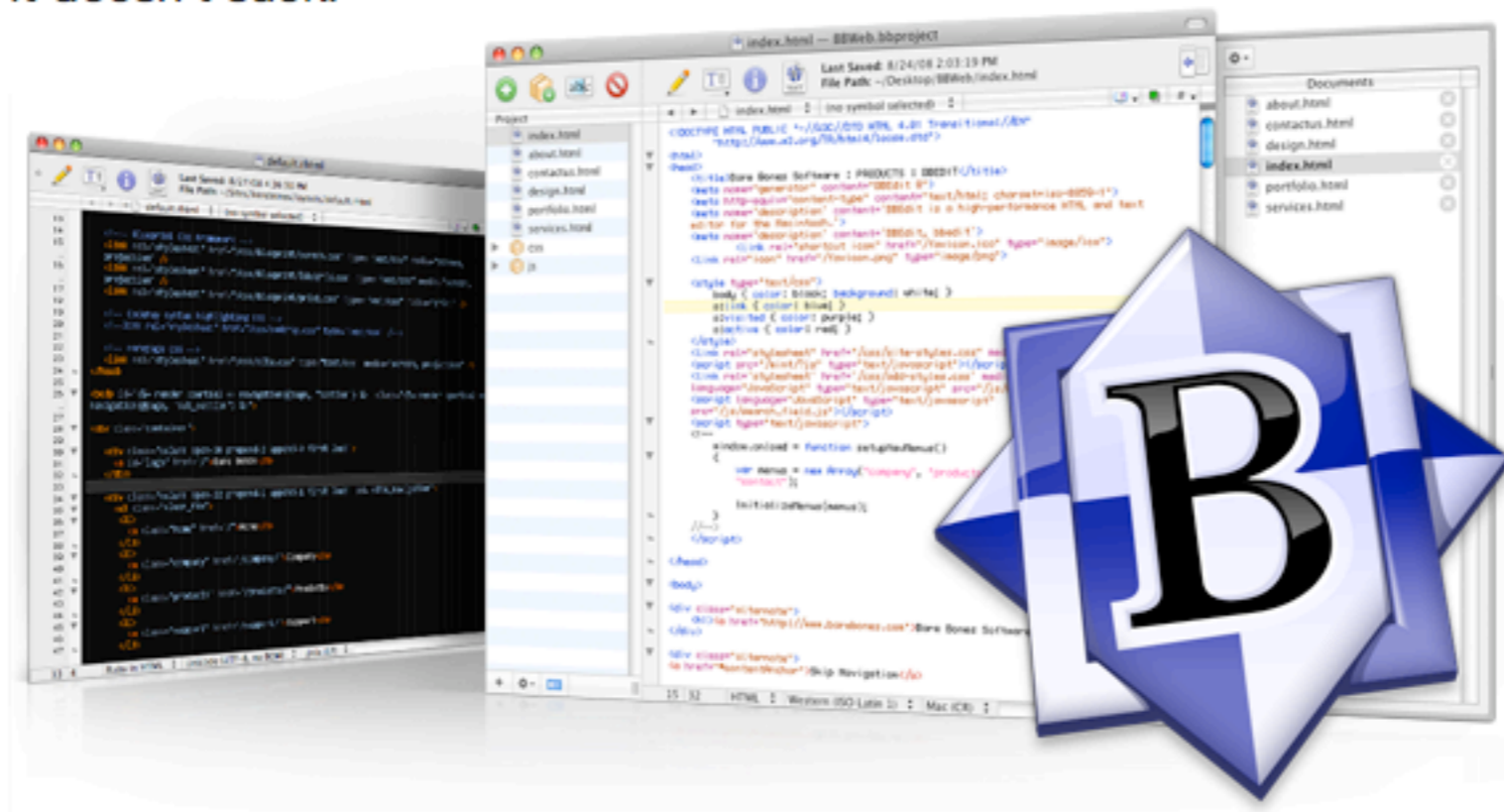
# A Plain Text Editor



# Source Code Editors

BBEdit 9

It doesn't suck.®



# WYSIWYG Editors

The screenshot displays the Adobe Dreamweaver interface in Design view. The main workspace is split into two panes. The left pane shows the source code for a file named 'story\_example.html (XHTML)'. The code includes a DOCTYPE declaration, a meta charset declaration, a title 'A Really Short Story', and two chapters of text. The right pane shows the rendered preview of the document, which includes a main title 'A Really Short Story', a sub-title 'Chapter 1', and a paragraph of text. Below the preview, there is a 'PROPERTY' panel for the selected element. On the right side of the interface, there is an 'INSERT' panel with a 'Forms' dropdown menu and a list of form elements including Form, Text Field, Hidden Field, Textarea, Checkbox, Radio Button, List/Menu, Image Field, File Field, Button, Label, and Fieldset. Below the 'INSERT' panel is a 'FILES' panel showing the local file system structure for the 'Michael Portfolio' site.

```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
  Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transi
  tional.dtd">
2 <html xmlns="http://www.w3.org/1999/xhtml">
3 <head>
4 <meta http-equiv="Content-Type" content=
  "text/html; charset=UTF-8" />
5 <title>A Really Short Story</title>
6 </head>
7
8 <body>
9 <h1>A Really Short Story</h1>
10 <h2>Chapter 1</h2>
11 <p>It was a cold and rainy afternoon. Leaves,
  torn from branches, whipped the air until they
  settled on a home far from their origin. I
  struggled to write more.
12 <h2>Chapter 2</h2>
13 <p>My pen felt heavy in my hand, it had been
  months since I had written chapter one. I
  finally realized that I was indeed "not a
  writer."</p>
14 </body>
15 </html>
16 |
```

**A Really Short Story**

**Chapter 1**

It was a cold and rainy afternoon. Leaves, torn from branches, whipped the air until they settled on a home far from their origin. I struggled to write more.

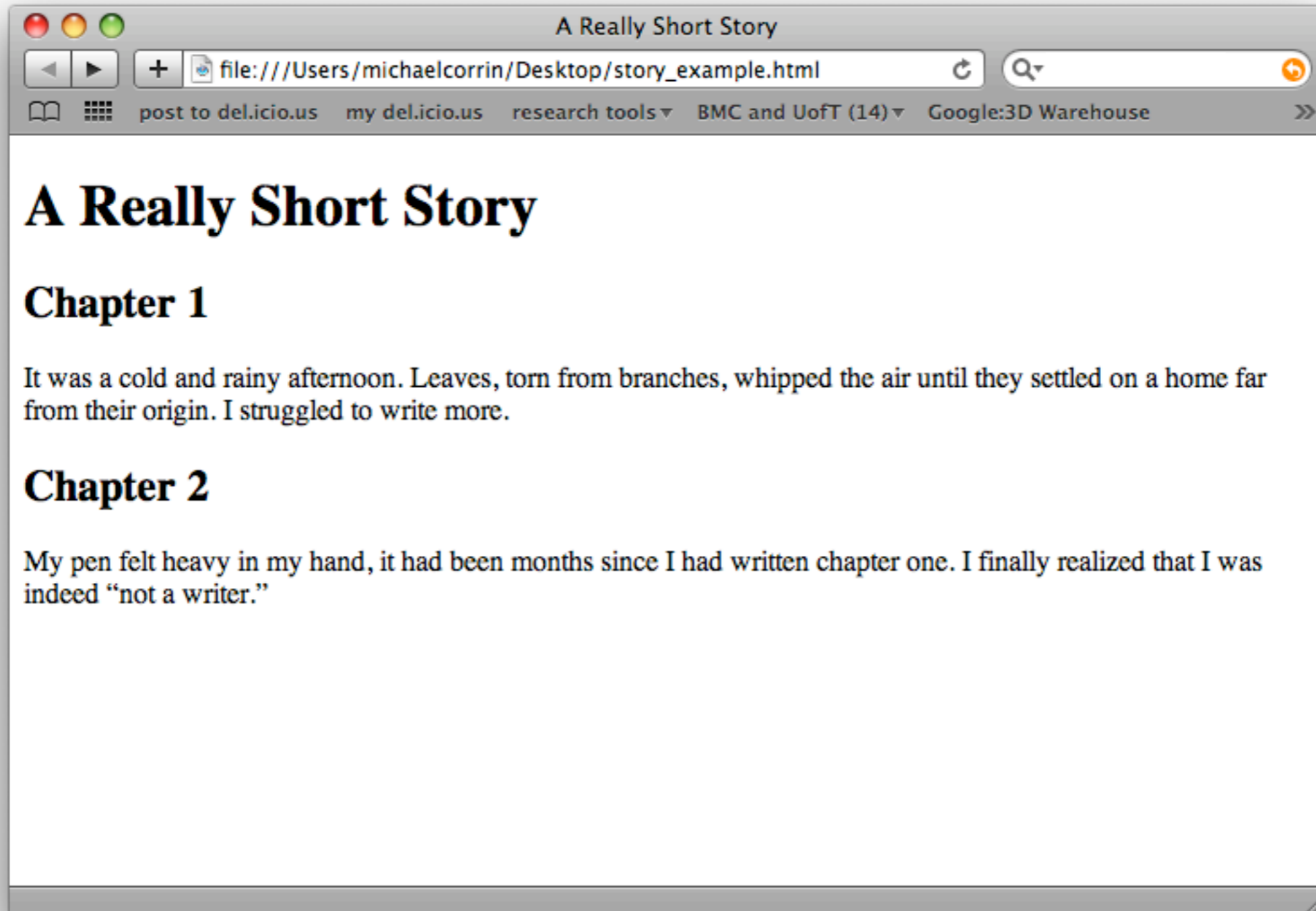
**Chapter 2**

My pen felt heavy in my hand, it had been months since I had written chapter one. I finally realized that I was indeed "not a writer."

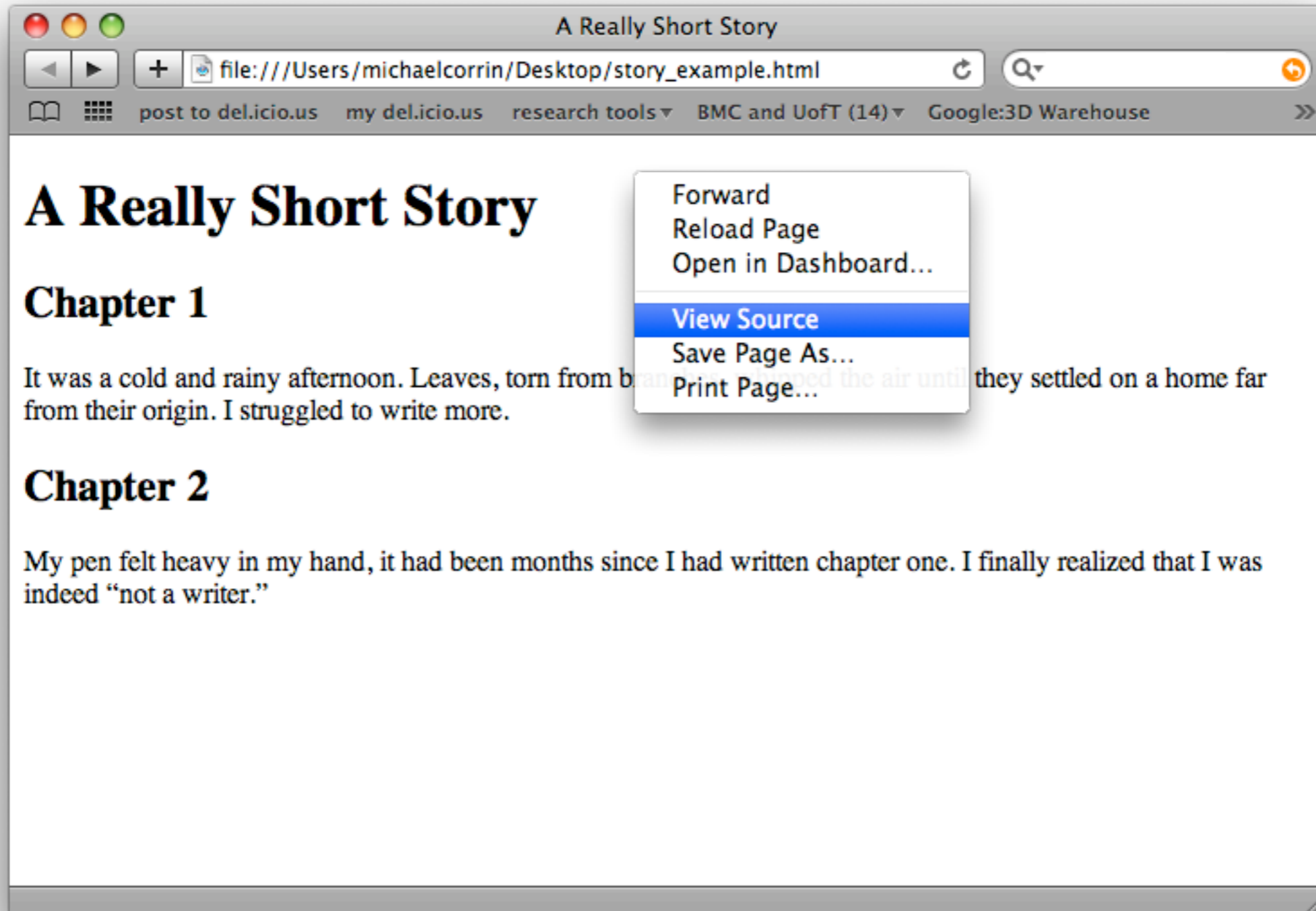
# Summary

- HTML deals with describing document structure and content.
- HTML does not describe presentation.
- XHTML is an XMLized version of HTML.
- Each HTML element needs a start and end tag, `<p></p>`.
- HTML is structured as a tree-like branching document with elements nested within elements.
- The root element in an HTML document is `<html>`.
- The `<html>` element has two children `<head>` and `<body>`.
- HTML files are nothing more than a plain text file with an `.html` suffix (myfile.html).
- The `<form>` element allows us to capture user input.

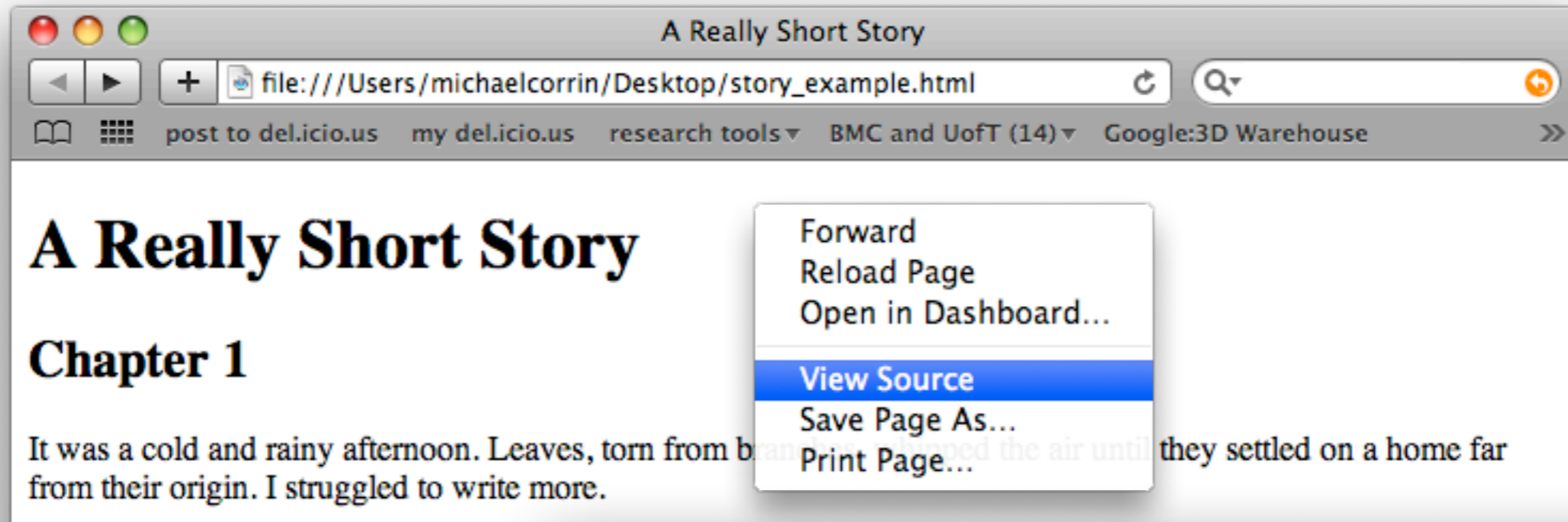
# Inspiration



# Inspiration

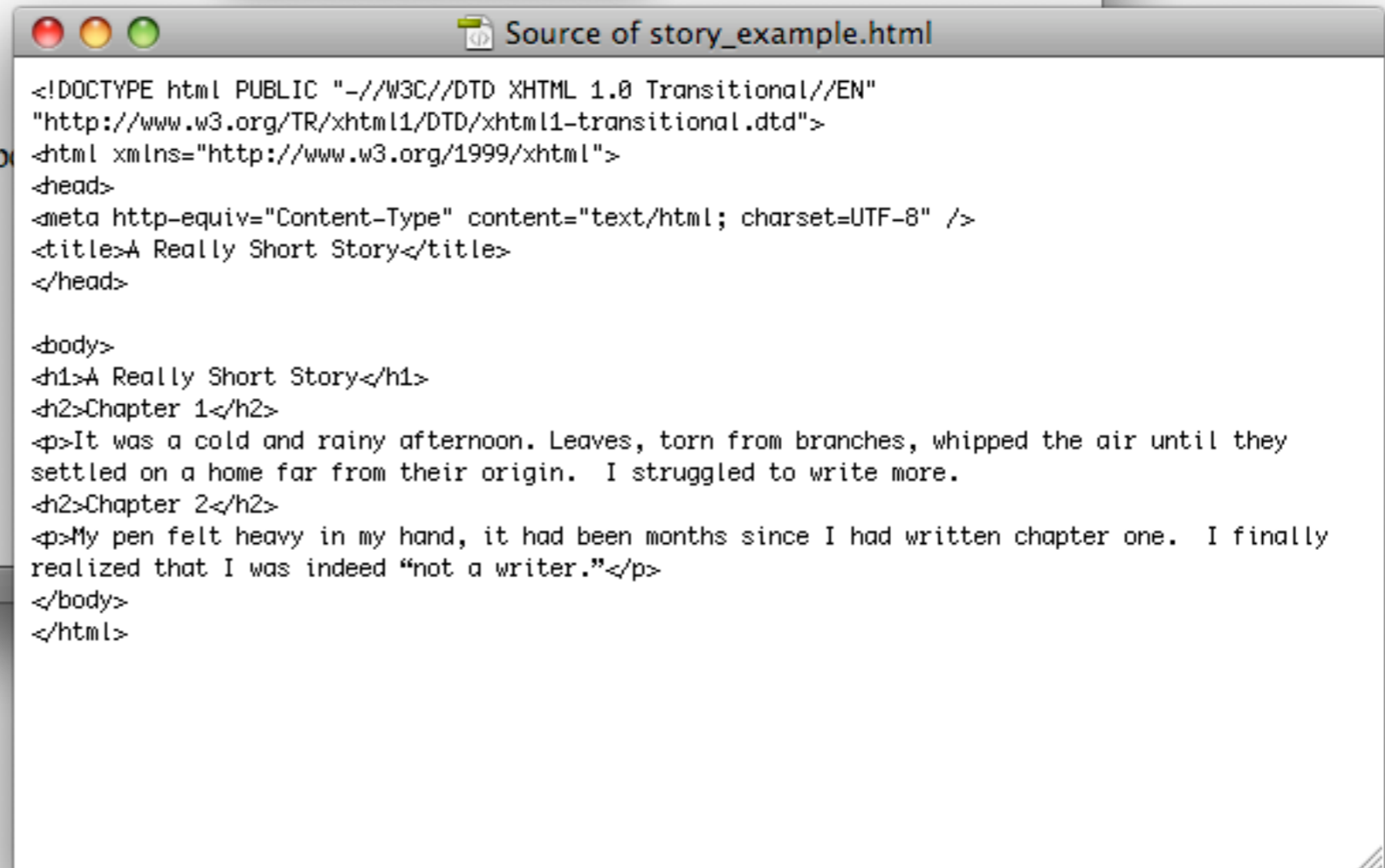


# Inspiration



## Chapter 2

My pen felt heavy in my hand, it had been months since I had written chapter one. I finally realized that I was indeed "not a writer."



**I wanna make it look the way I want!**

**Next week: CSS**

**Thank you.**