HTML

&

CSS

1

HTML

The structure of your web page

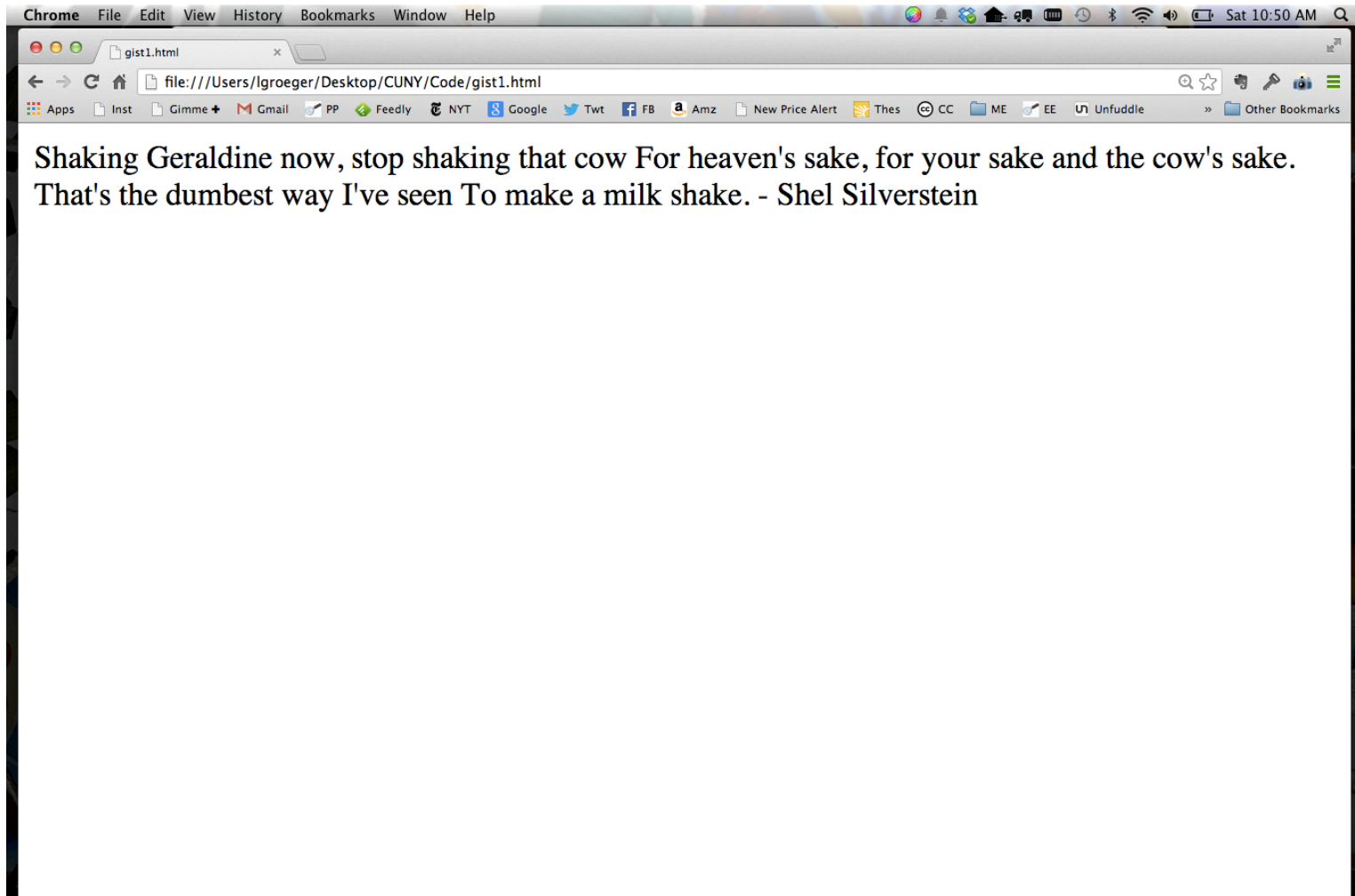# Plain Ol' Text

Shaking

Geraldine now, stop shaking that cow

For heaven's sake, for your sake and
the cow's sake.

That's the dumbest way I've seen

To make a milk shake.

— Shel Silverstein

Looks like this

↓

Marked Up Text

```
<h1>Shaking </h1>

<p>Geraldine now, stop shaking that cow</p>

<p>For heaven's sake, for your sake and the
cow's sake.</p>

<p>That's the dumbest way I've seen</p>

<p>To make a milk shake.</p>

<p><em>- Shel Silverstein</em></p>
```
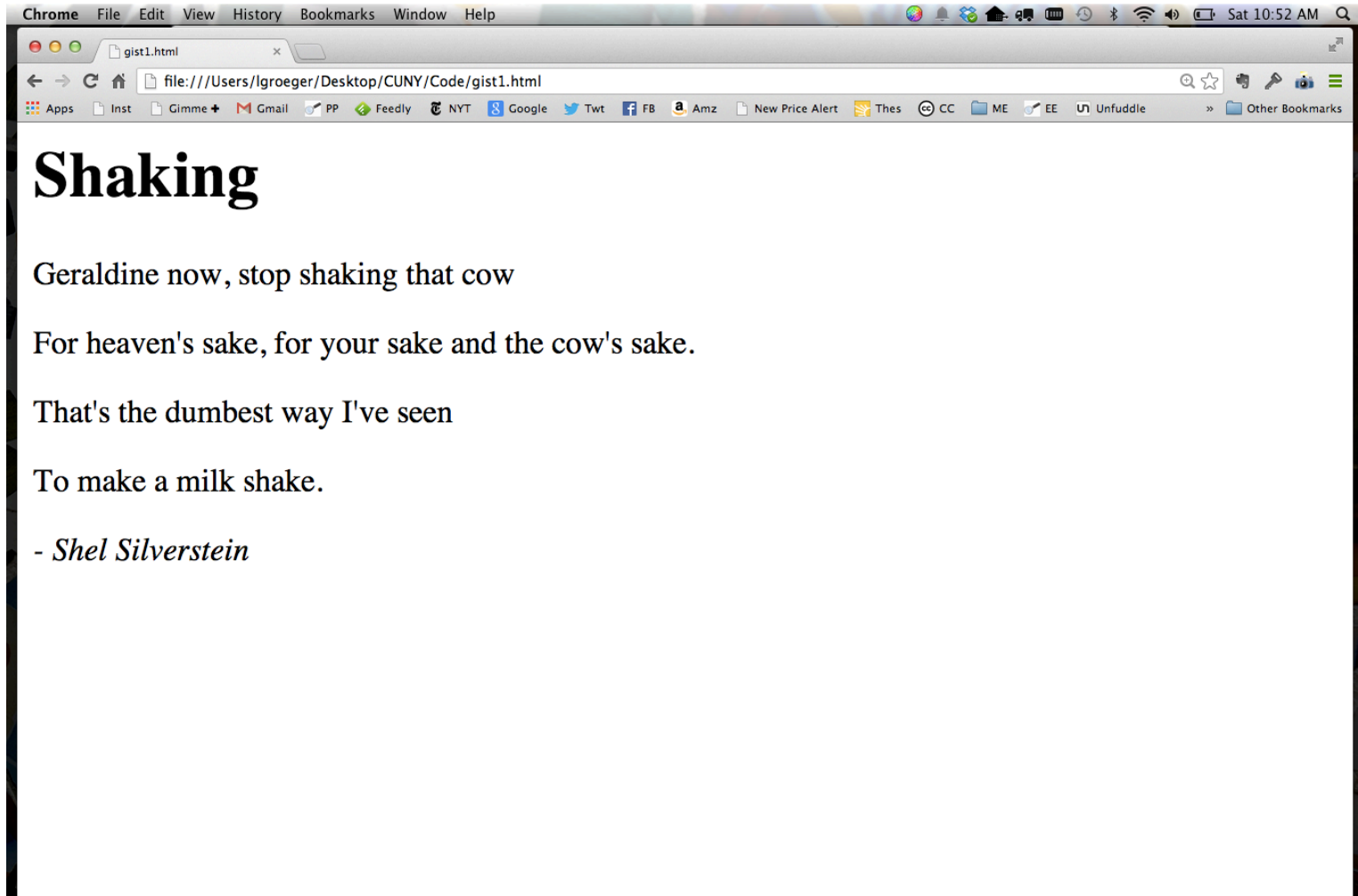
Looks like this

↓

All because of these

`<h1></h1>`   `<p></p>`   `<em></em>`

Shaking

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→

`<h1>`Shaking `</h1>`

`<p>`Geraldine now, stop shaking that cow`</p>`

`<p>`For heaven's sake, for your sake and the cow's sake.`</p>`

`<p>`That's the dumbest way I've seen`</p>`

`<p>`To make a milk shake.`</p>`

`<p><em>`— Shel Silverstein`</em></p>`

What is your purpose?

```
<h1></h1>
<h2></h2>
<h3></h3>
```
Headers

```
<p></p>
```
Paragraphs

```
<img>
```
Images

```
<ol></ol>
<ul></ul>
```
Lists

```
<a></a>
```
Links

How are you organized?

`<div></div>`

Section (block)

A division within the document that groups related elements

`<span></span>`

Section (inline)

Less intrusive than a div, usually found within a containing element like a <p>

How are you special?

`<em></em>` **Emphasis**

Usually shows up as *italics*

`<strong></strong>` **Strong**

Usually shows up as **bold**

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COMMENTS

<div>

SCIENCE   PHOTO ESSAY

<h1>

Eight miles of water: underground with Manhattan's new aquatic lifeline

<h2>

over 40 <span> <a> a new water tunnel to serve its millions

By Dante D'Orazio on October 19, 2013 10:00 am   ✉ Email   🐦 @dantedorazio

<div>

<div>

<p>

New Yorkers will proudly tell you that the city has some of the finest tap water that you can find. But for nearly a century, all of Manhattan has been served by a single water tunnel that hasn't been shut down for maintenance since it first opened in 1917. That's no longer the case. The city has finally completed work on a water tunnel designed to provide some redundancy to Manhattan's lifeline.

<p>

The tunnel runs 500 feet below the surface and is 12 feet in diameter. The section activated this week runs for 8.5 miles, serving all of Manhattan below Central Park. Ten separate shafts, each about a mile apart, use pressure alone

<div>

Opening Tag   **Closing Tag**

<p>   </p>

1 per page

`<html></html>`

HTML

Surrounds everything in the document.

`<head></head>`

Head

Holds all the metadata, title, links to external files

`<body></body>`

Body

Holds all the visible content of a page

`<title></title>`

Page Title

Title of the document (shows up at the top of your window)

```
<!DOCTYPE html>
<html>
  <head>
    <title>A Poem by Shel Silverstein</title>
  </head>
  <body>

    <h1>Shaking </h1>

    <p>Geraldine now, stop shaking that cow</p>

    <p>For heaven's sake, for your sake and the cow's sake.</p>

    <p>That's the dumbest way I've seen</p>

    <p>To make a milk shake.</p>

    <p><em>- Shel Silverstein</em></p>

  </body>
</html>
```

Attributes

Elements' little labels. property = "value"

property (href)   value (url)

```
<a href="http://www.propublica.org/">ProPublica</a>
```

property (class)   value ("kicker")

```
<p class"kicker">Super awesome kicker</p>
```

property (id)   value ("introduction")

```
<p id="introduction">This is such a great intro</p>
```

Classes & ID's

very useful attributes

Classes

you can combine them
and repeat them

```html
<p>Kind of OK paragraph</p>
<p class="cool">Very cool paragraph</p>
<p class="cool last">The end</p>
```

ID's

only one per element,
per page. can't combine
them or repeat them.

```html
<div id="my-story">
  <p>Kind of OK paragraph</p>
  <p class="cool">Very cool paragraph</p>
  <p class="cool last">The end</p>
</div>
```

Comments

secret messages you can leave yourself and others
(not detected by the browser)

<!-- I can't be seen! -->

```
<!-- Note: Don't try this milkshake at home   -->

<h1>Shaking </h1>

<p>Geraldine now, stop shaking that cow</p>
```
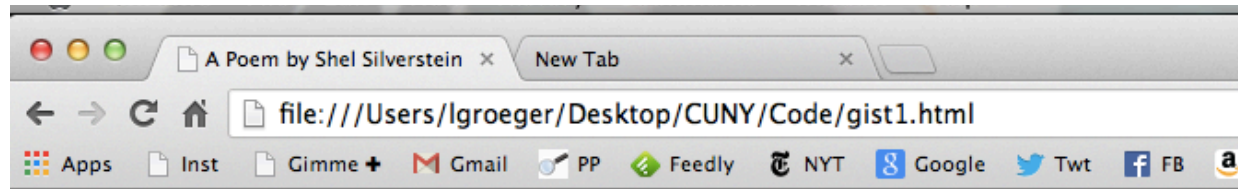
2

css

what your web page looks like

This:

```css
p {
 color:red;
 font-size: 12px;
}
```

Looks like this:

But there's more!

```css
body {
    font-family:"Helvetica";
}

h1 {
    font-size: 48px;
    background: black;
    color:white;
    padding:20px;
}

p {
    color:red;
    font-size: 12px;
    margin-left:20px;
}
```
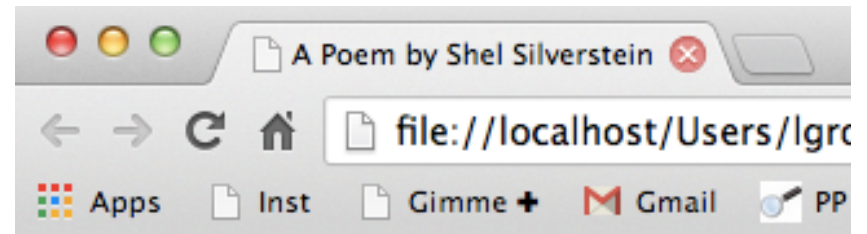
→

A Poem by Shel Silverstein

file://localhost/Users/lgrc

Apps   Inst   Gimme +   M Gmail   PP

Shaking

Geraldine now, stop shaking that cow

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To make a milk shake.

- Shel Silverstein

HTML

roof

window

door

CSS

type selector

all the p's on your page

→

```css
p {
  margin:0px;
}
```

id selector

the element with the id of "intro"

→

```css
#intro {
  font-weight: bold;
  color: #444;
  clear: both;
}
```

class selector

everything with a class of "mini-label"

→

```css
.mini-label {
  text-transform: uppercase;
  font-size: 11px;
}
```

descendant selector

all the divs within an element with the class of "section"

→

```css
.section div {
  width: 100%;
  margin: 0px auto
}
```

more combinations!

all the spans with a class of "special"

→

```css
span.special {
  color:white;
  background: #3193a5;
  padding: 10px
}
```

Adapted from Scott Murray's Intro to Web Fundamentals