

Web Development

Produced
by

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<http://elearning.wit.ie>



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRCE



CSS: The Box Model

Web Development

Agenda

- Box Model
 - Box Model: Content, Padding, Border & Margin
 - Background images
 - Border Styles, Width, Colour



Welcome to the Head First Lounge

The Head First Lounge is, no doubt, the biggest trendsetter in Webville. Stop in to sample the eclectic offering of elixirs, teas, and coffees, or, stay a bit longer and enjoy the multicultural culinary menu that combines a harmony of taste, texture, and color with the best in fresh and healthy ingredients.

During your stay at the lounge, you'll enjoy a smooth mixture of ambient and mystic sounds, filling the lounge and adding an extra dimension to your dining experience. The decor surrounds you with the relaxing sentiments of sights from eras past. And, don't forget, the lounge offers free wireless access to the Internet, so bring your laptop.

But that's not all; at night, join us in the backroom as our resident DJ spins a choice selection of trance and drum&bass beats across our spacious tiki-themed dance floor. Or just hang out in one of our comfy white vinyl booths at the dance bar. You can have your elixirs delivered from the main lounge right to the dance floor. If you've had enough of the beat, just head back to the lounge area to relax. And, no matter where you find yourself in the lounge, you'll always be connected with our wireless Internet access.

Now that you've experienced the lounge *virtually*, isn't it time to check us out *for real*? We're located right in the heart of Webville, and we've created some [detailed directions](#) to get you here in record time. No reservations necessary; come and join us anytime.

Weekly Elixir Specials



Lemon Breeze

The ultimate healthy drink, this elixir combines herbal botanicals, minerals, and vitamins with a twist of lemon into a smooth citrus wonder that will keep your immune system going all day and all night.



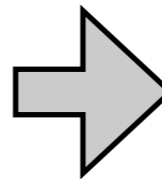
Chai Chiller



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Black Brain Brew

Want to boost your memory? Try our Black Brain Brew elixir, made with black oolong tea and just a touch of espresso. Your brain will thank you for the boost.

Join us any evening for these and all our other wonderful [elixirs](#).

```
body {  
  font-size: small;  
  font-family: Verdana, Helvetica, Arial, sans-serif;  
}
```

Here's the default
font size for the page.



```
h1, h2 {  
  color: #007e7e;  
}
```

We're going to go with a sans-serif font-family for the lounge. We've picked a few font alternatives, and ended the declaration with the generic sans-serif font.



```
h1 {  
  font-size: 150%;  
}
```

We're going to set the color of the <h1> and <h2> elements to an aquamarine to match the glass in the logo.



```
h2 {  
  font-size: 130%;  
}
```

Now let's get some reasonable heading sizes for <h1> and <h2>. Since we're setting two different sizes for these, we need separate rules and can't add them to the combined rule for <h1> and <h2>.





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Chai Chiller

al botanicals, minerals, and vitamins with a keep your immune system going all day

chai spices and adds an extra chocolate

line-height

- Increasing the line height of your text can improve readability. It also gives you another way to provide contrast between different parts of your page.

Here we're changing the space between each line to 1.6em, in other words, 1.6 times the font size.

```
body {  
  font-size:    small;  
  font-family:  Verdana, Helvetica, Arial, sans-serif;  
  line-height:  1.6em;  
}
```

- Fonts can be measured in absolute for relative terms:
- Absolute:
 - px - Pixels, absolute, screen oriented
 - pt - Points, absolute, print oriented
- Relative
 - em - “width of an ‘m’”, 1 = current font width
 - % - 100% = current font size

<https://css-tricks.com/css-font-size/>



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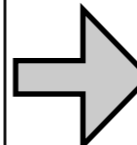
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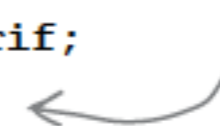
Lemon Breeze

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  line-height: 1.6em;  
}
```

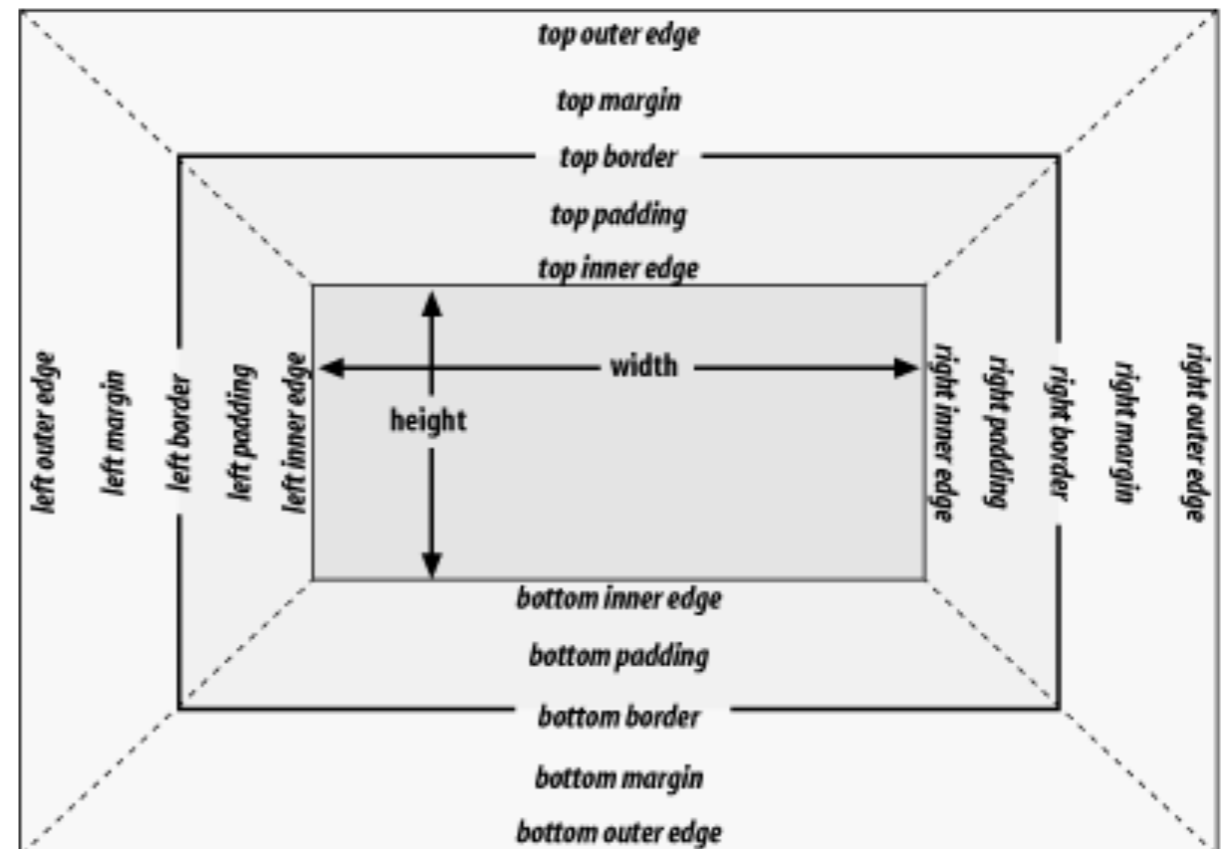
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CSS Box Model

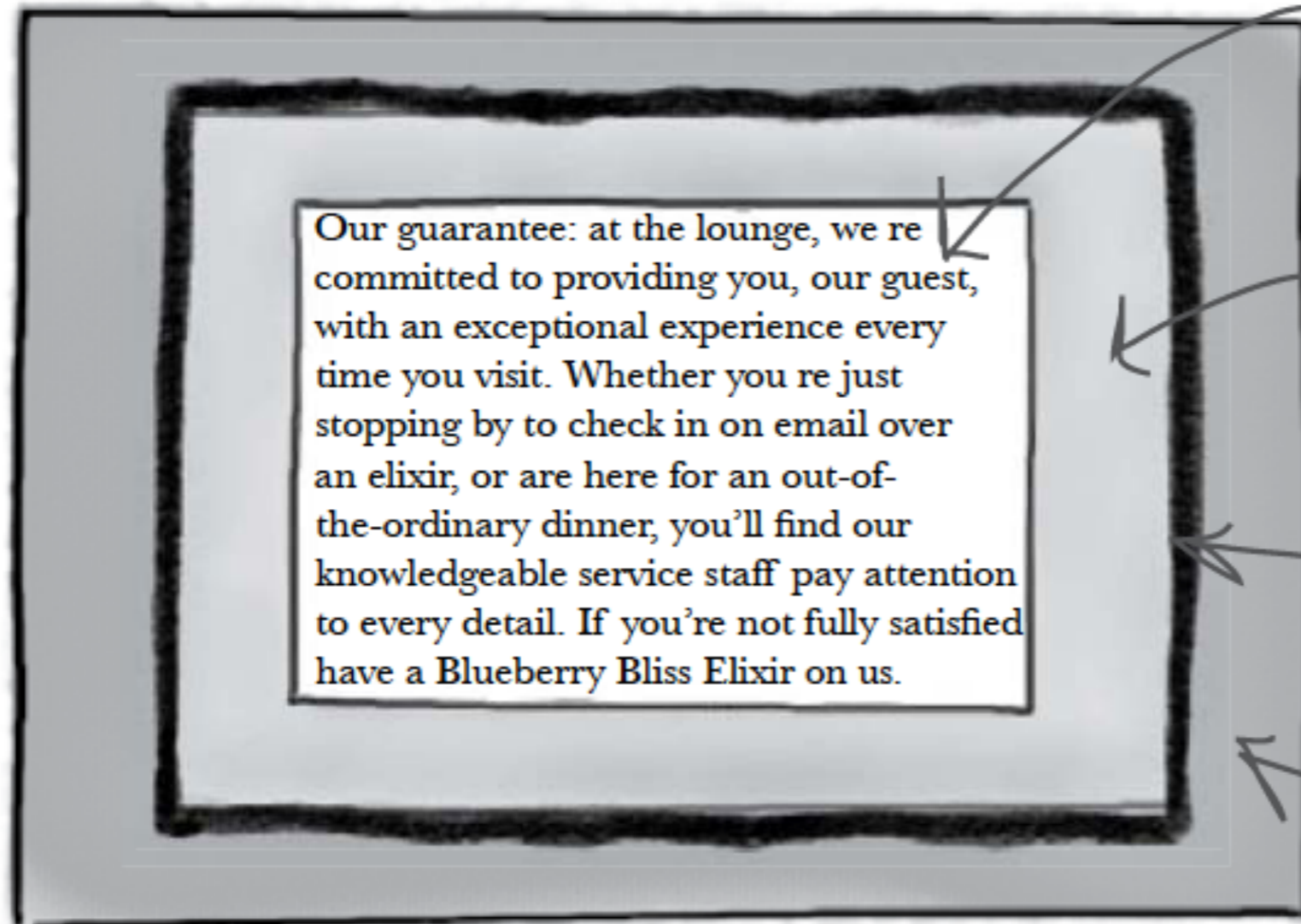
- So far, your CSS has focussed on changing simple properties of elements, like size, color, and decorations. For effective layout control, you have got to move on to the box model.
- The **box model** is how CSS sees elements.
- CSS treats every single element as if it were represented by a box.
- All elements are treated as boxes: paragraphs, headings, block quotes, lists, list items, and so on. Even inline elements like `` and links are treated by CSS as boxes

- Boxes consist of:
 - Content
 - Padding
 - Border
 - Margin



From the perspective of CSS, every element is a box.

Every box is made up of a content area along with optional padding, border, and margins.



The content area, which holds the content (text or an image, for instance).

The content area is surrounded by optional transparent padding.

An optional border can be placed around the padding.

And finally, an optional transparent margin surrounds everything.

Content Area

- Every element starts with some content, like text or an image, and this content is placed inside a box that is just big enough to contain it.
- The content area has no whitespace between the content and the edge of the box

The content area holds the element's content. It's typically just big enough to hold the content.



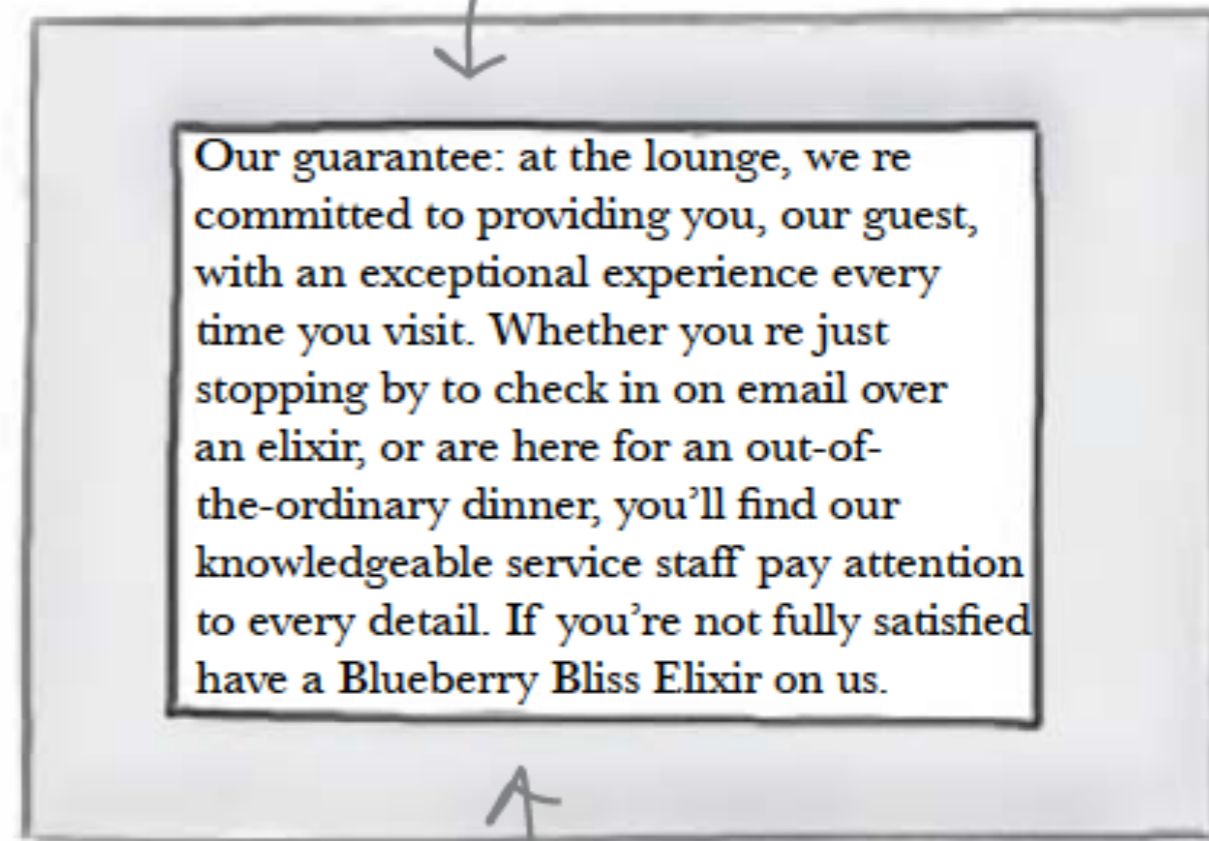
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We've drawn an edge around the content area just so you know how big it is. But in a browser there is never a visible edge around the content area.

Padding

- Any box can have a layer of padding around the content area.
- Padding is optional, so you don't have to have it, but you can use padding to create visual whitespace between the content and the border of the box.
- The padding is transparent and has no color or decoration of its own.

The browser adds optional padding around the content area.



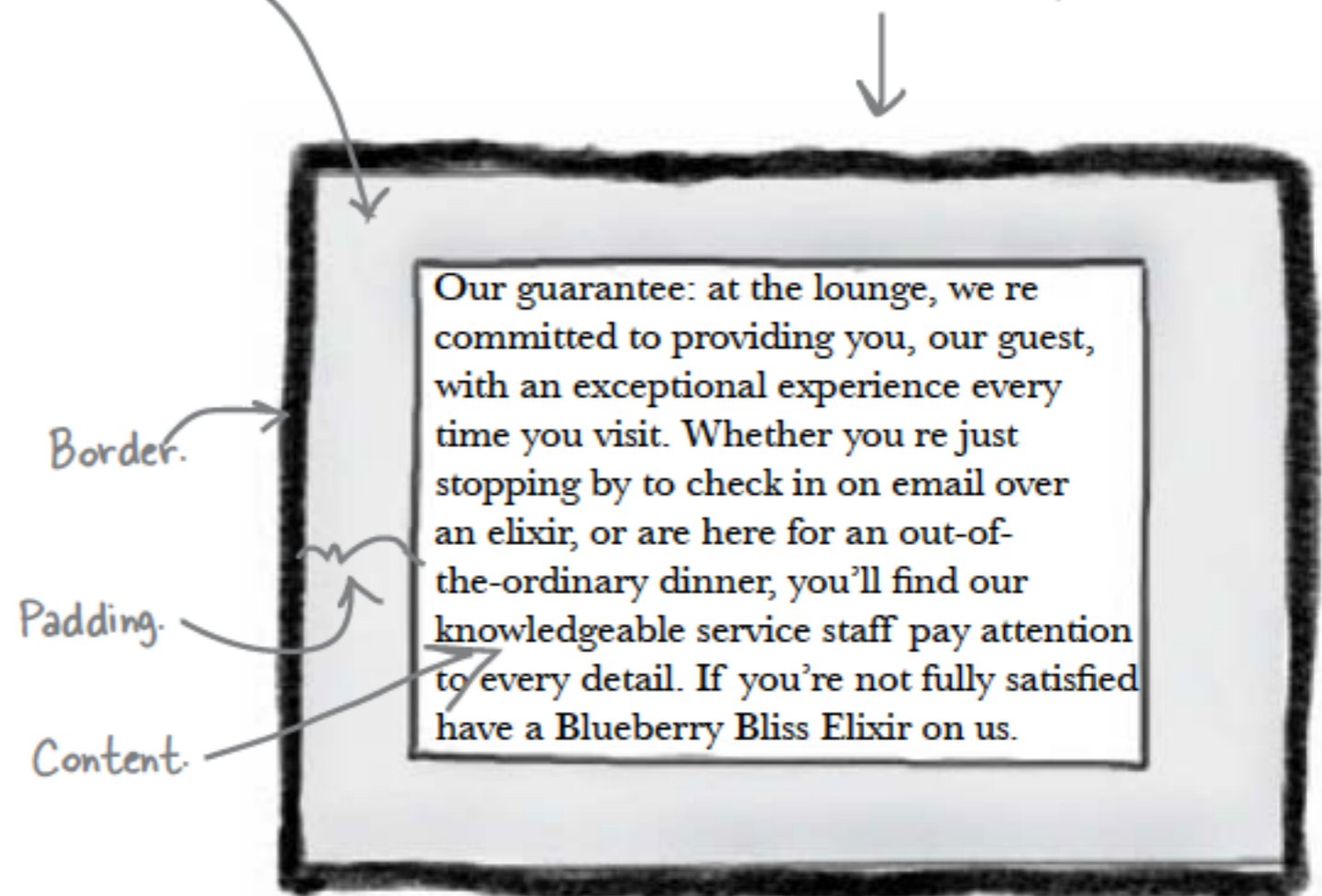
Using CSS, you're going to be able to control the width of the padding around the entire content area, or even control the padding on any one side (top, right, bottom, or left).

Border

Notice that the padding separates the content area from the border.

Using CSS, you're going to be able to control the width, color, and style of the border.

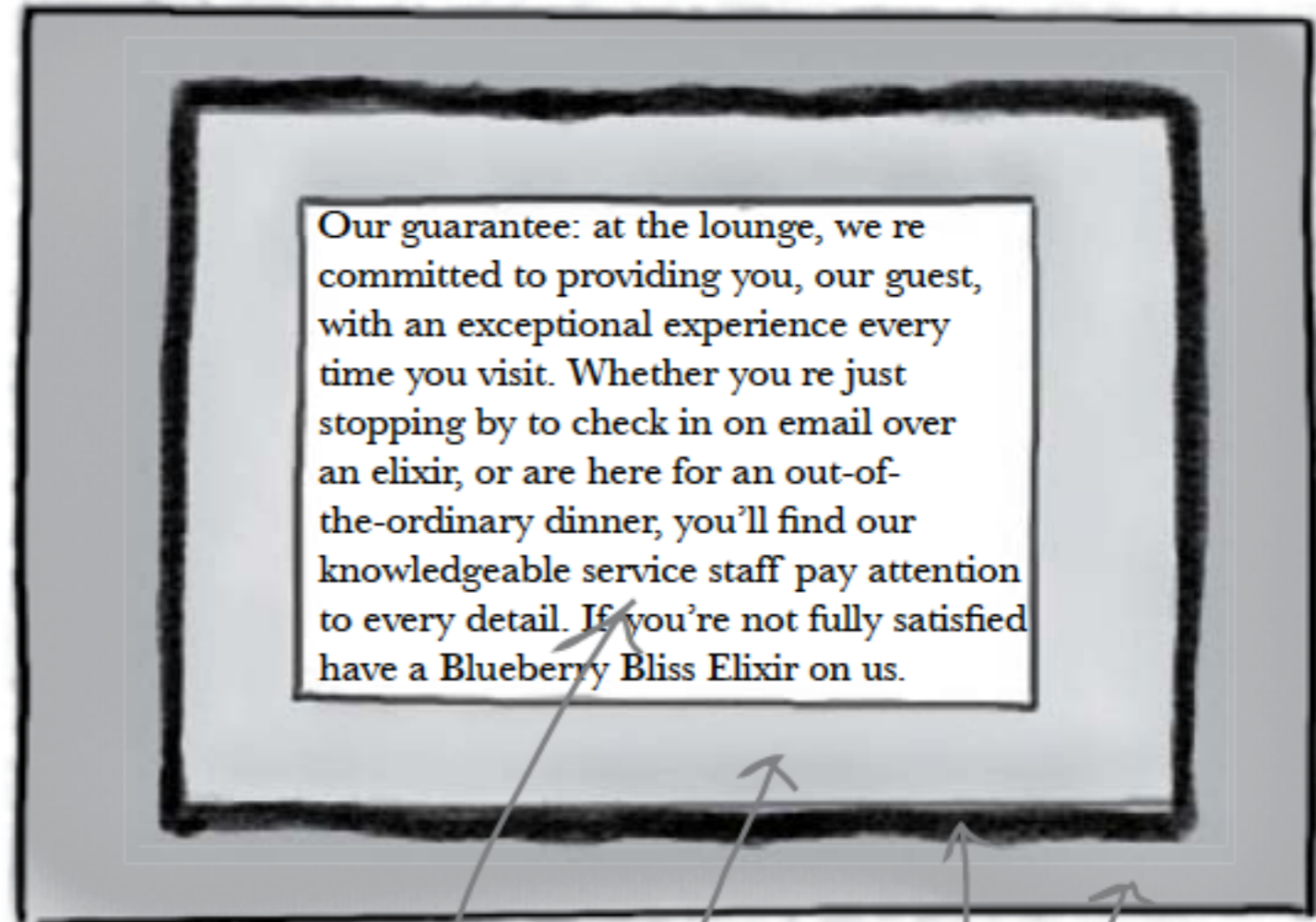
- Elements can have an optional border around them
- The border surrounds the padding and because it takes the form of a line around the content, borders provide visual separation between content and other elements on the same page
- Borders can be various widths, colors and styles



Margin

- The margin is also optional and surrounds the border.
- The margin gives you a way to add space between your element and other elements on the same page.
- If two boxes are next to each other, the margins act as the space in between them.
- Like padding, margins are transparent and have no color or decoration of their own.

Using CSS, you're going to be able to control the width of the entire margin, or of any particular side (top, right, bottom, or left).



This is the entire element. We have a content area, surrounded by optional padding, surrounded by an optional border, surrounded by an optional margin.

Content.

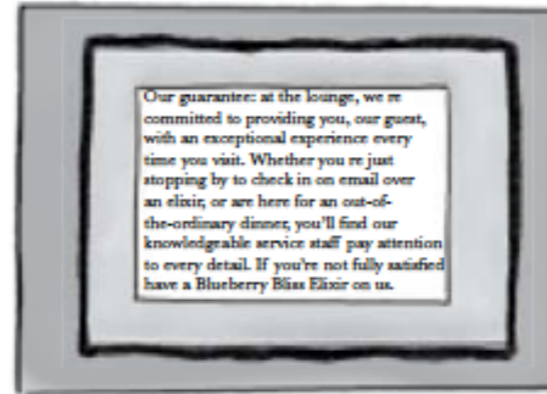
Padding.

Border.

Margin.

Variations: Boxes

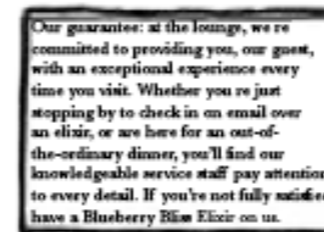
- The box model may look simple with just the content, some padding, a border, and margins.
- But when you combine these all together there are endless ways you can determine the layout of an element with its internal spacing (padding) and the spacing around it (margins).



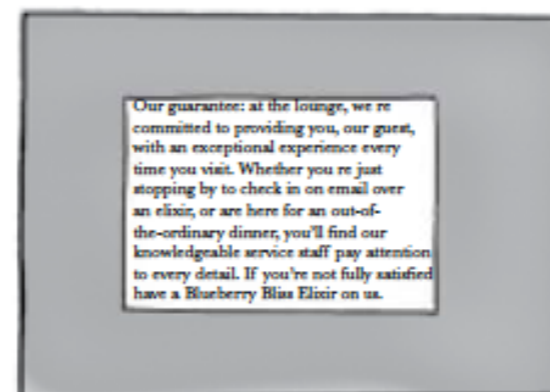
You can style a box to have padding, a border, and a margin.



Or, just padding and a border.



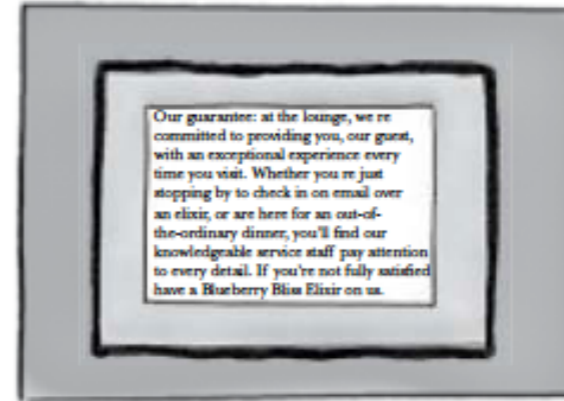
Or just a border.



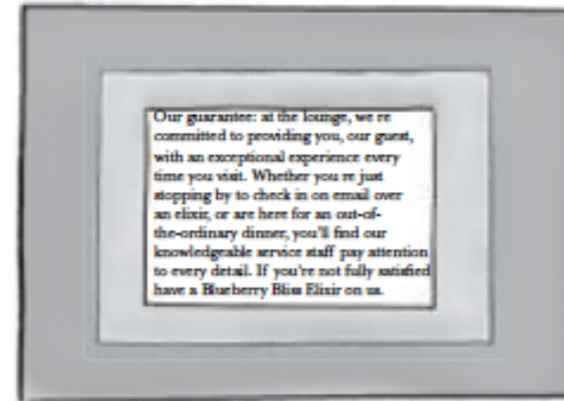
Or a margin with no border and no padding.

Variations: Borders

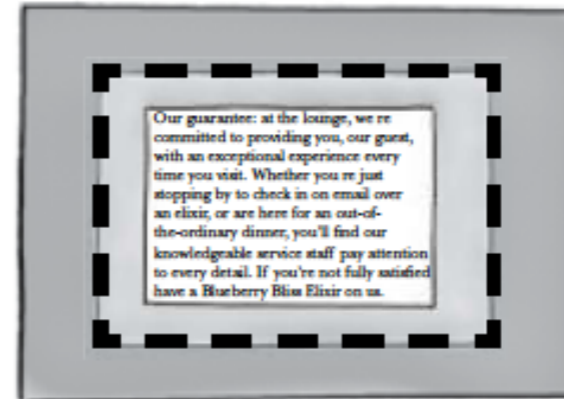
You can have solid borders, thick or thin.



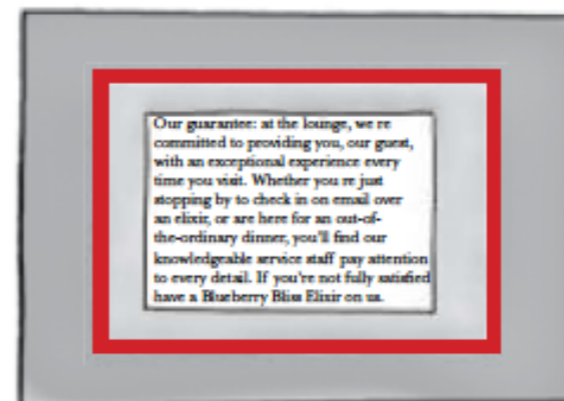
Or no border at all.



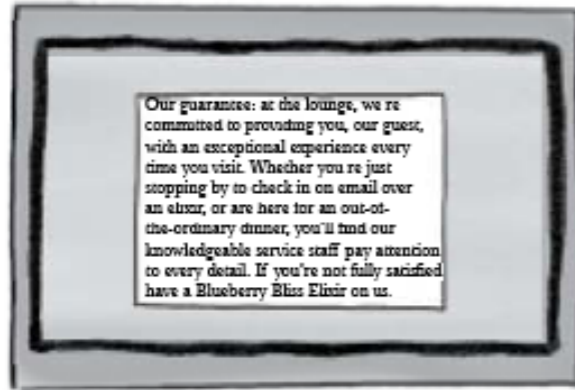
Or choose from eight different styles of borders, like dashed.



Or even color your borders.



Variations: Padding & Margins



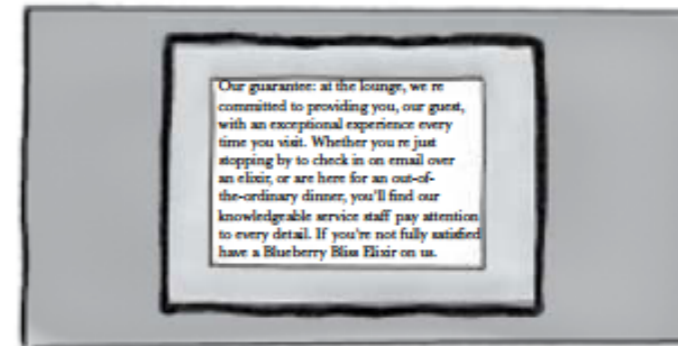
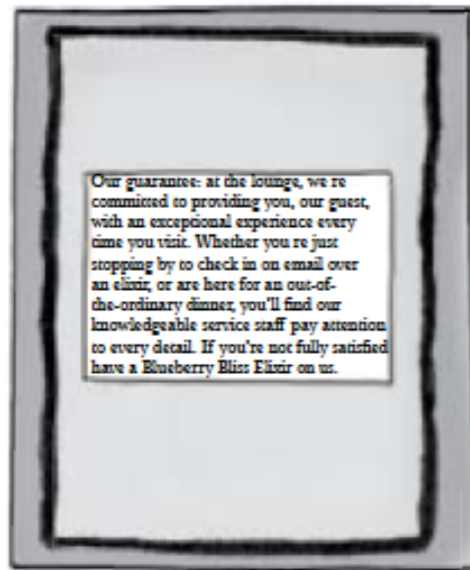
With CSS you can control padding on any side of the content area. Here we've got a lot of left and right padding.

You have the same level of control over the margins. Here there's a lot of top and bottom margin.



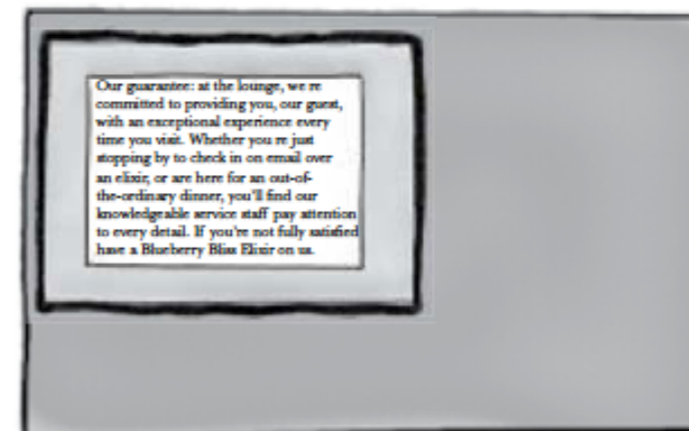
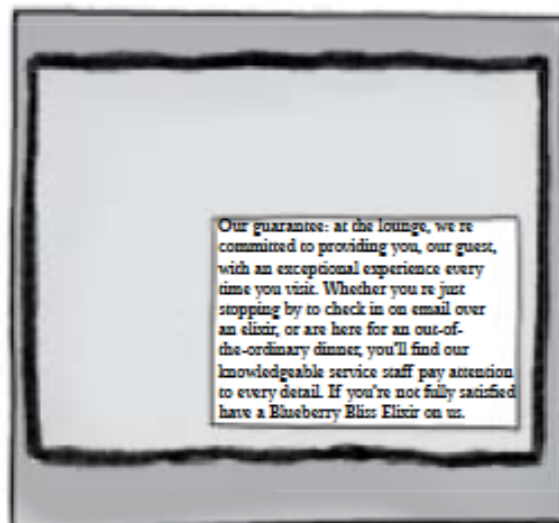
And here a lot of top and bottom padding.

And here's a lot of left and right margin.



And here the content is offset to the bottom right with padding on the top and left.

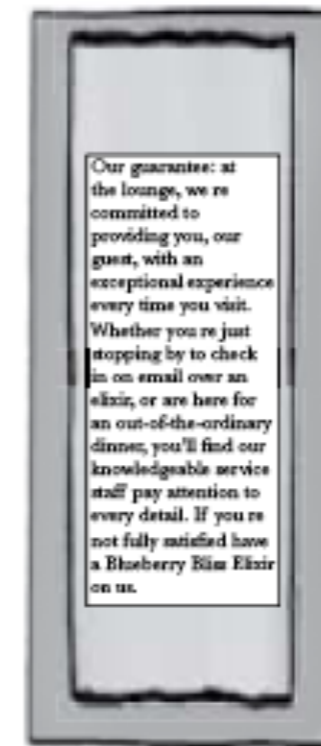
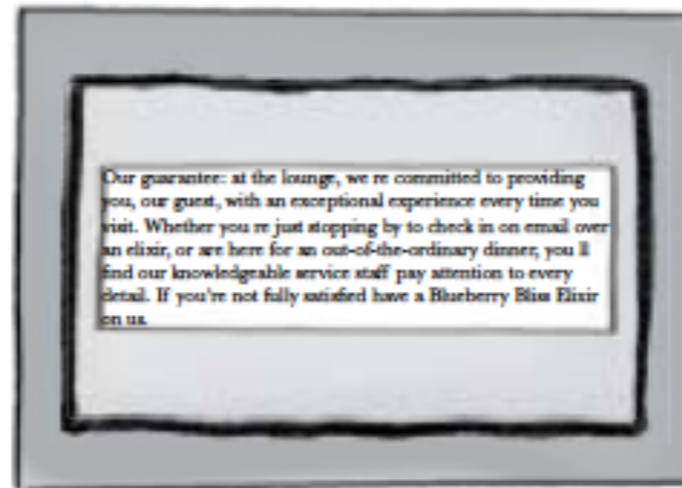
And like padding, you can specify all sides independently to create margins like this.



Variations: Content

Content Area

You can even control width and height in a variety of ways. Here, the content area has been made wide.



← And here the content area is tall but thin.

Box Model in Action



Head First
Lounge

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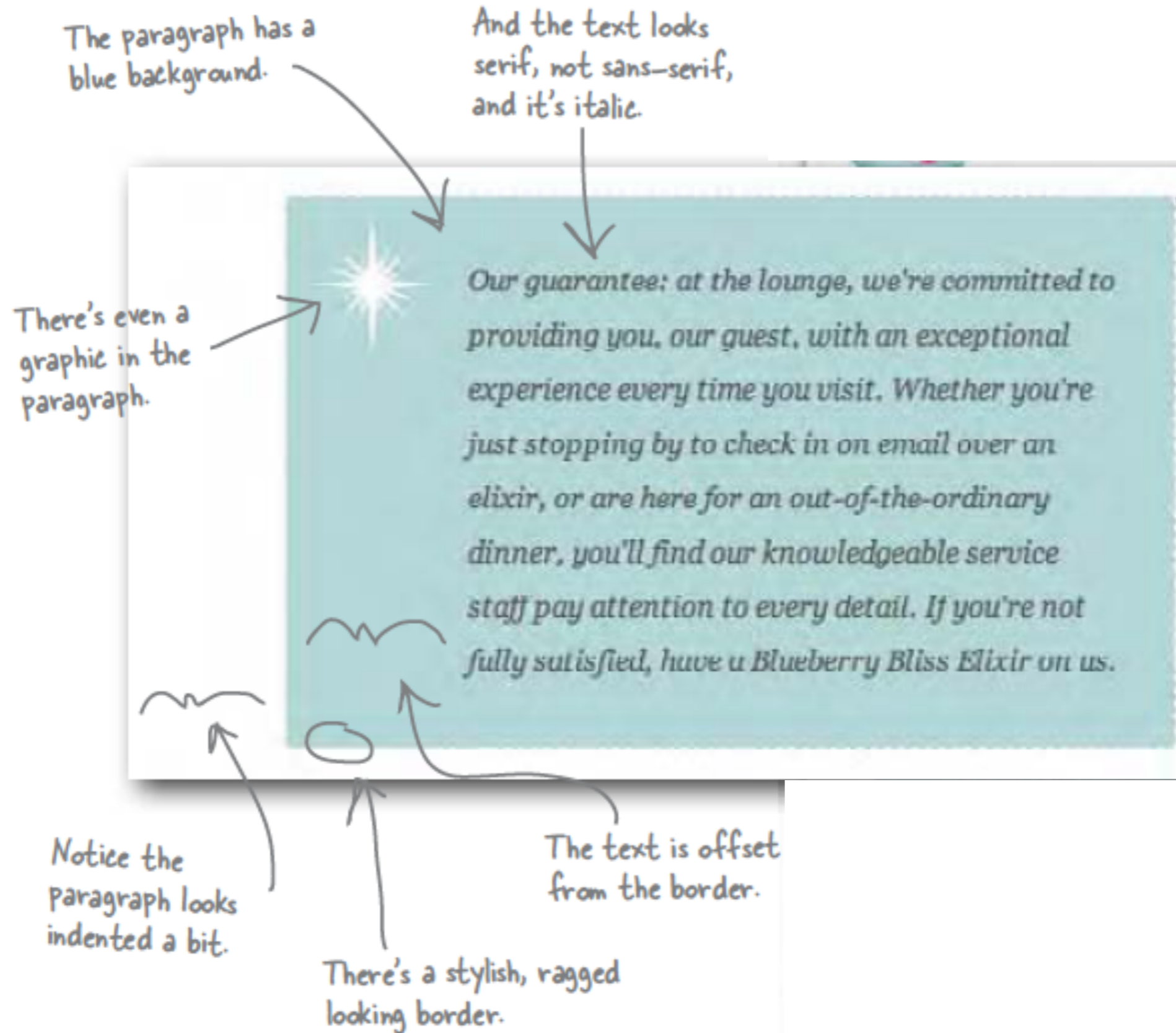


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The “Guarantee” box



- Use class to identify the “guarantee” paragraph
- No styling initially

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```
<p class="guarantee">
```

```
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```

```
</p>
```

- No padding around the content - i.e no space between text and border
- No margin left/right
- But there seems to be a margin top/bottom? -> **Check Default Style Sheet**

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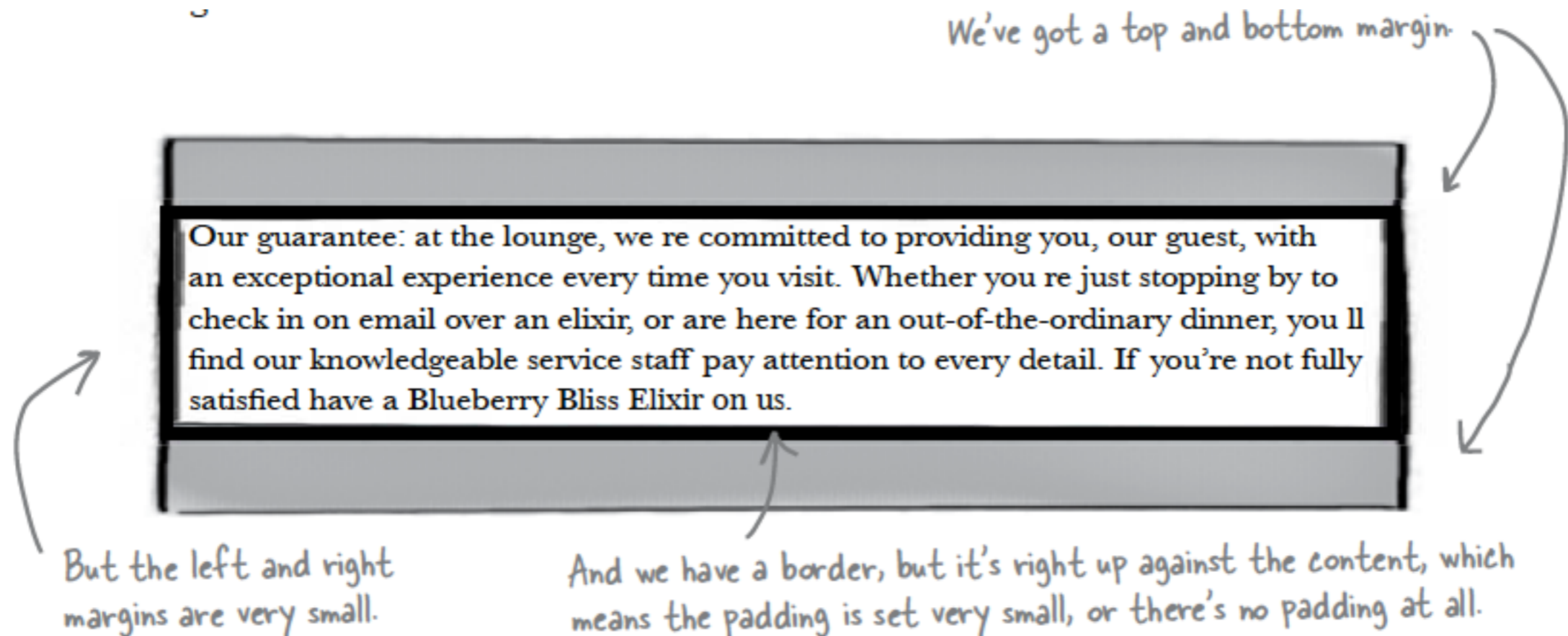
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```
.guarantee
{
  border-color:      black;
  border-width:     1px;
  border-style:     solid;
  background-color: #a7cece;
}
```

Box Model

- Here's what the paragraph would look like if we drew it as a box model diagram



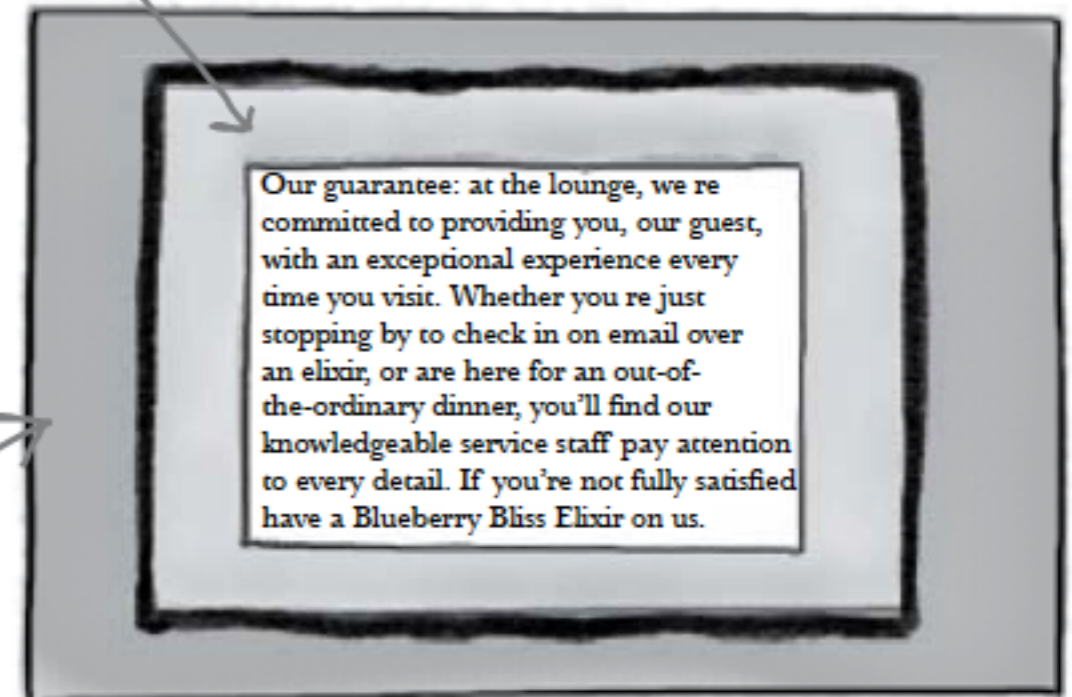
What we want:

We definitely need some padding all around the content.



We're also going to need a slightly different border. This border looks ragged, not like a solid line.

And we want some more margin space around the paragraph.



Add Padding

Welcome to the Head First Lounge

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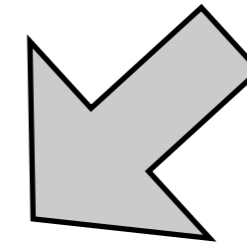
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- Can be either to a number of pixels or a percentage of area inside the border

```
.guarantee
{
  border-color:      black;
  border-width:     1px;
  border-style:     solid;
  background-color: #a7cece;
  padding:         25px;
}
```

culinary menu that combines a harmony of taste, texture, and color with the best in fresh and healthy ingredients.

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- Had we chosen %

```
.guarantee
{
border-color:      black;
border-width:     1px;
border-style:     solid;
background-color:  #a7cece;
padding:          25%;
}
```

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Add Margin

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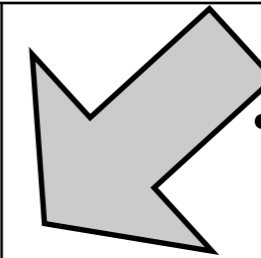
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- Now we have 25 pixels of margin on all sides.

```
.guarantee
{
  border-color:      black;
  border-width:     1px;
  border-style:     solid;
  background-color: #a7cece;
  padding:          25px;
  margin:           30px;
}
```

Agenda

- Box Model
 - Content, Padding, Border & Margin
 - Background images
 - Border Styles, Width, Colour

Add a Background Image



Background.gif

- `` and background images:
 - An `` element, on the other hand, is used to include an image that has a more substantial role in the page, like a photo or a logo
 - A background image is pure presentation, and the only reason you would use a background-image is to improve the attractiveness of an element.
- We could have just placed the image inside the paragraph, and we could probably get the same look and feel, but the guarantee star is pure decoration
- It has no real meaning on the page and it's only meant to make the element look better. So, background-image makes more sense.

Background Image

- Image sits on top of the background color.
- Because it has a transparent background, it lets the color show through
- The background images, like the background color, only show under the content area and padding, and not outside the border in the margin

```
.guarantee
{
  border-color:      black;
  border-width:     1px;
  border-style:     solid;
  background-color:  #a7cece;
  padding:          25px;
  margin:           30px;
  background-image: url(images/background.gif);
}
```

Welcome to the lounge

The Head First Lounge is an eclectic offering of healthy ingredients. Our menu features a variety of healthy ingredients.

During your stay at the lounge, you'll enjoy a smooth mixture of ambient and mystic sounds, filling the lounge and adding an extra dimension to your dining experience. The decor surrounds you with the relaxing sentiments of sights from eras past. And, don't forget, the lounge offers free wireless access to the Internet, so bring your laptop.

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But that's not all; at
trance and drum&ba
one of our comfy w
the main lounge rig
lounge area to relax
connected with our

`.guarantee`

```
{  
  border-color:      black;  
  border-width:     1px;  
  border-style:     solid;  
  background-color: #a7cece;  
  padding:         25px;  
  margin:          30px;  
  background-image: url(images/background.gif);  
  background-repeat: no-repeat;  
  background-position: top left  
}
```

- By default, background images are repeated.
- The no-repeat value for the background-repeat property turns this off, so we get just one image.
- By default, browsers position a background image in the top, left of the element

More Padding

- For padding, margins, and even borders, CSS has a property for every direction: top, right, bottom, and left.
- To add padding on the left side, use the padding-left property

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But that's not all; at night, j
trance and drum&bass beat
one of our comfy white viny
the main lounge right to the
lounge area to relax. And, r
connected with our wireless

```
.guarantee
{
  border-color:      black;
  border-width:     1px;
  border-style:     solid;
  background-color:  #a7cece;
  padding:          25px;
  padding-left:     80px;
  margin:           30px;
  background-image: url(images/background.gif);
  background-repeat: no-repeat;
  background-position: top left
}
```


More Margins

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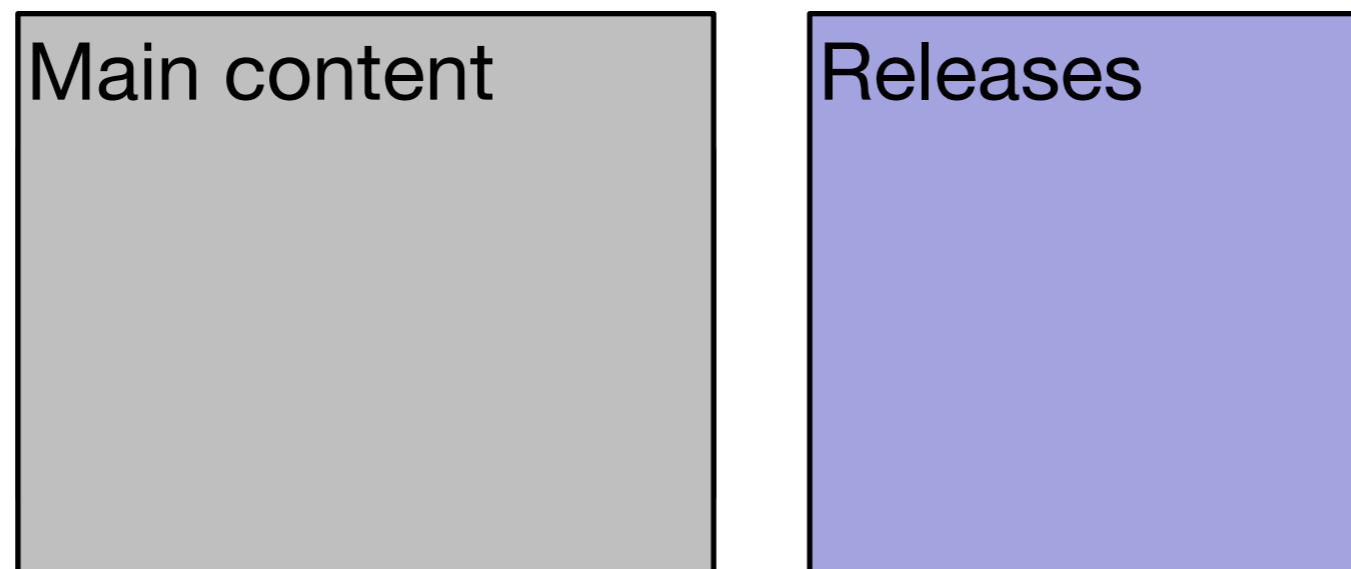
ordinary dinner, you'll find our geable service staff pay attention to every detail. If you're not satisfied, have a Blueberry Bliss with us.

At night, join us in the backroom as our resident DJ spins a choice selection of beats across our spacious tiki-themed dance floor. Or just hang out on vinyl booths at the dance bar. You can have your elixirs delivered to the dance floor. If you've had enough of the beat, just head back to the bar. No matter where you find yourself in the lounge, you'll always have wireless Internet access.

```
.guarantee
{
  border-color:      black;
  border-width:     1px;
  border-style:     solid;
  background-color: #a7cece;
  padding:          25px;
    padding-left:    80px;
  margin:           30px;
    margin-right:    250px;
  background-image: url(images/background.gif);
  background-repeat: no-repeat;
  background-position: top left;
}
```

Using DIVs to define sections

- While we have used the box model to specify space within (i.e., padding) and outside (i.e., margin) the border of an element, it can also be employed to specify the position of portions of text on the page
- We could, for example, add content related to new releases on the right hand-side and the main content on the left-hand side as illustrated in the next diagram, using a two-column layout



Using Divs to define Regions of a Page

To achieve this we could do the following:

- Use DIV elements as containers, one for the main content and one for the left content
- Allocate an ID to each of these divs
- Create CSS rules for each DIVs so that they are floating to the left and right of the page, respectively

```
<div id = maincontent>
...
</div>
```

```
<div id = releases>
...
</div>
```



```
#releases
{
...
float:right;
}

#maincontent
{
...
float:left;
}
```

We endeavour to give you your most wanted DVD and/or Game from your rental queue depending on our stock situation. All DVDs and Games are posted out at noon FIRST CLASS, and should be at your doorstep by the next morning. When we dispatch your DVD/Game we'll send you an e-mail to advise you on which DVD/Game was dispatched to you. There are no late fees so you can watch or play at your leisure



Once you finish watching your DVD or playing your Game you simply return it to us using the Pre-Paid envelope provided. Remember, As there are NO LATE FEES, you can keep the DVD or Game for as long as you want, only the sooner you return the disc, the sooner we can send you your next available choice.

Directions

You'll find us right in the center of downtown Webville. If you need help finding us, check out our [detailed directions](#). Come join us!

```
#releases
{
  border-width: thin;
  border-style: solid;
  border-color: #007e7e;

  width: 150px;
  padding: 0px 20px 30px 10px
  margin-left: 20px;

  text-align: center;

  float:right;
}
```

You May Have Missed ...



The Girl with the Dragon Tattoo



Forty years ago, Harriet Vanger disappeared from a family gathering on the island owned and inhabited by the powerful Vanger clan. Her body was never found, yet her uncle is convinced it was

```

#releases
{
  border-width: thin;
  border-style: solid;
  border-color: #007e7e;

  width: 150px;
  padding: 0px 20px 30px 10px
  margin-left: 20px;

  text-align: center;

  float:right;
}

#maincontent
{
  float:left;
  width:800px;
}

```



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Now that you've experienced the lounge *virtually*, isn't it time to check us out *for real*? We're located right in the heart of Webville, and we've created some [detailed](#)

Weekly Elixir Specials



Lemon Breeze

The ultimate healthy drink, this elixir combines herbal botanicals, minerals, and vitamins with a twist of lemon into a smooth citrus wonder that will keep your immune system going all day and all night.



Chai Chiller

Not your traditional chai, this elixir mixes maté with chai spices and adds an extra chocolate kick for a caffeinated taste sensation on ice.



Black Brain Brew

Want to boost your memory? Try our Black Brain Brew elixir, made with black oolong tea and just a touch of espresso. Your brain will thank you for the boost.

Join us any evening for these and all our other wonderful [elixirs](#).

Border Style

The border-style property controls the visual style of the border. There are eight border styles available, from a solid line to dotted lines to ridges and grooves.

```
border-style: groove;
```

To specify a border style just use the border-style property and a value of one of the available styles.

The solid style is just what it sounds like, a solid border.

Go with **solid**, the original.

The dotted style looks like a series of dots.

Once you go **dotted** you'll never go back.

The double style uses two lines.

Go with **double**, I'm twice the fun.

And the dashed style is just a set of dashes round the border.

Ignore dotted, use **dashed**.

A groove style looks like a groove in the page (difficult to see in a book).

I'm the border that's got the **groove**.

The inset style looks like an inset that sinks into the page.

I'm the only in style: **inset**.

The outset style looks like an outset that rises from the page.

Go with me, I've been better since the **outset**.

The ridge style looks like a raised ridge on the page.













I'm more fun; I've got **ridges**.

Border Width

The border-width property controls the width of the border. You can use keywords or pixels to specify the width.

```
border-width: thin;  
border-width: 5px;
```

You can specify widths using the keywords thin, medium, or thick, or by the number of pixels.

	thin		1px
	medium		2px
	thick		3px
			4px
			5px
			6px

Border Color

The border-color property sets the color of the border. This works just like setting font colors; you can use color names, rgb values, or hex codes to specify color.

```
border-color: red;  
border-color: rgb(100%, 0%, 0%);  
border-color: #ff0000;
```

Use border-color to specify the color of a border. You can use any of the common ways to specify color.



Specifying Border Sides

`border-top-color`
`border-top-style`
`border-top-width`

`border-right-color`
`border-right-style`
`border-right-width`

`border-bottom-color`
`border-bottom-style`
`border-bottom-width`

`border-left-color`
`border-left-style`
`border-left-width`

Just like margins and padding you can specify border style, width, or color on any side (top, right, bottom, or left):

```
border-top-color: black;  
border-top-style: dashed;  
border-top-width: thick;
```

↑
These properties are for the top border only. You can specify each side of the border independently.