

# CSS: The Box Model

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Web Development

# Box Model in Action



## 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.



*Our guarantee: at the lounge, we're committed to providing you, our guest, with an exceptional experience every time you visit. Whether you're just stopping by to check in on email over an elixir, or are here for an out-of-the-ordinary dinner, you'll find our knowledgeable service staff pay attention to every detail. If you're not fully satisfied, have a Blueberry Bliss Elixir on us.*

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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.

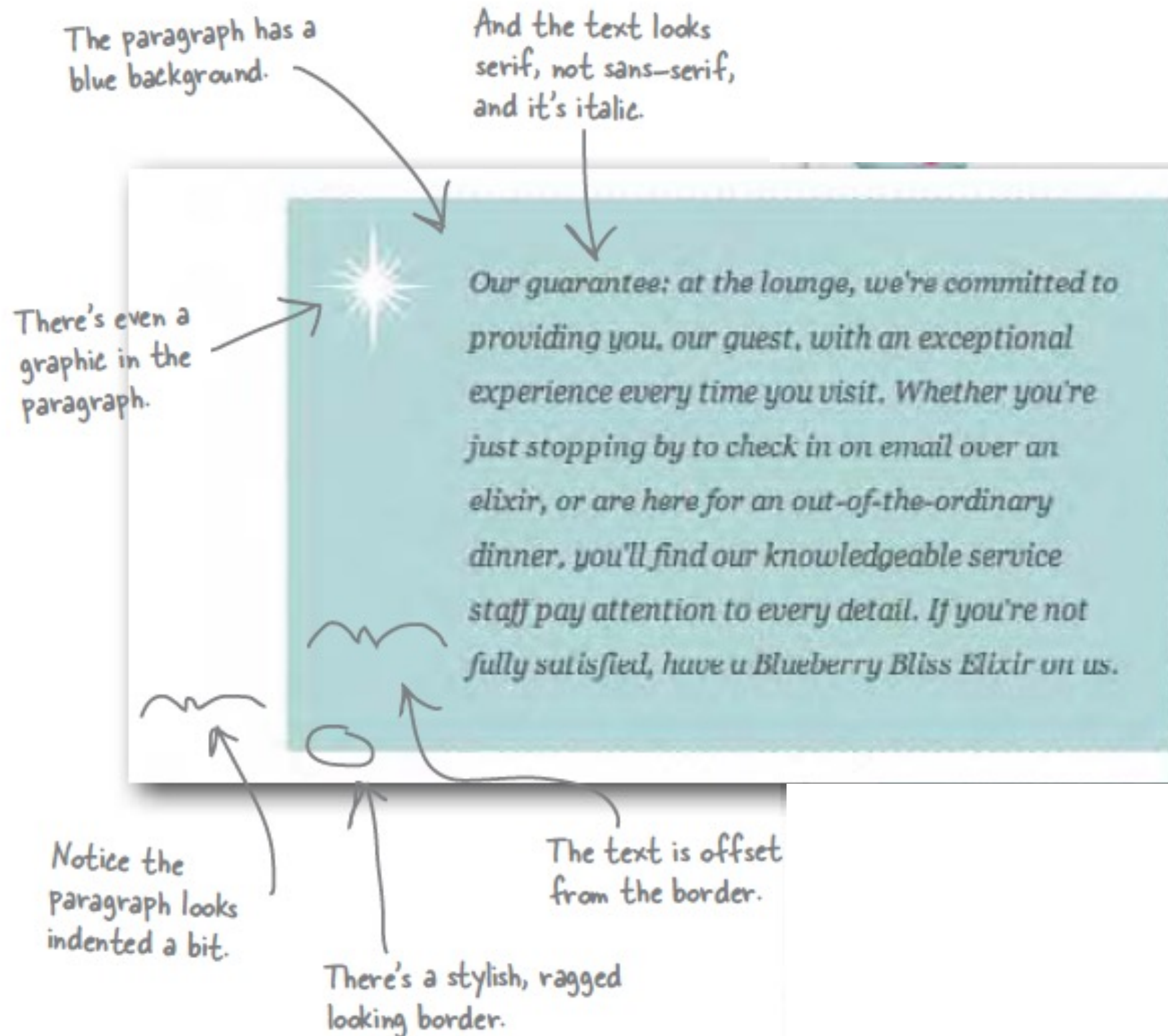


### Black Brain Brew

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](#).

# The “Guarantee” box



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

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

```
Our guarantee: at the lounge, we're committed to providing you,  
our guest, with an exceptional experience every time you visit.  
Whether you're just stopping by to check in on email over an  
elixir, or are here for an out-of-the-ordinary dinner, you'll  
find our knowledgeable service staff pay attention to every detail.  
If you're not fully satisfied, have a Blueberry Bliss Elixir on us.
```

```
</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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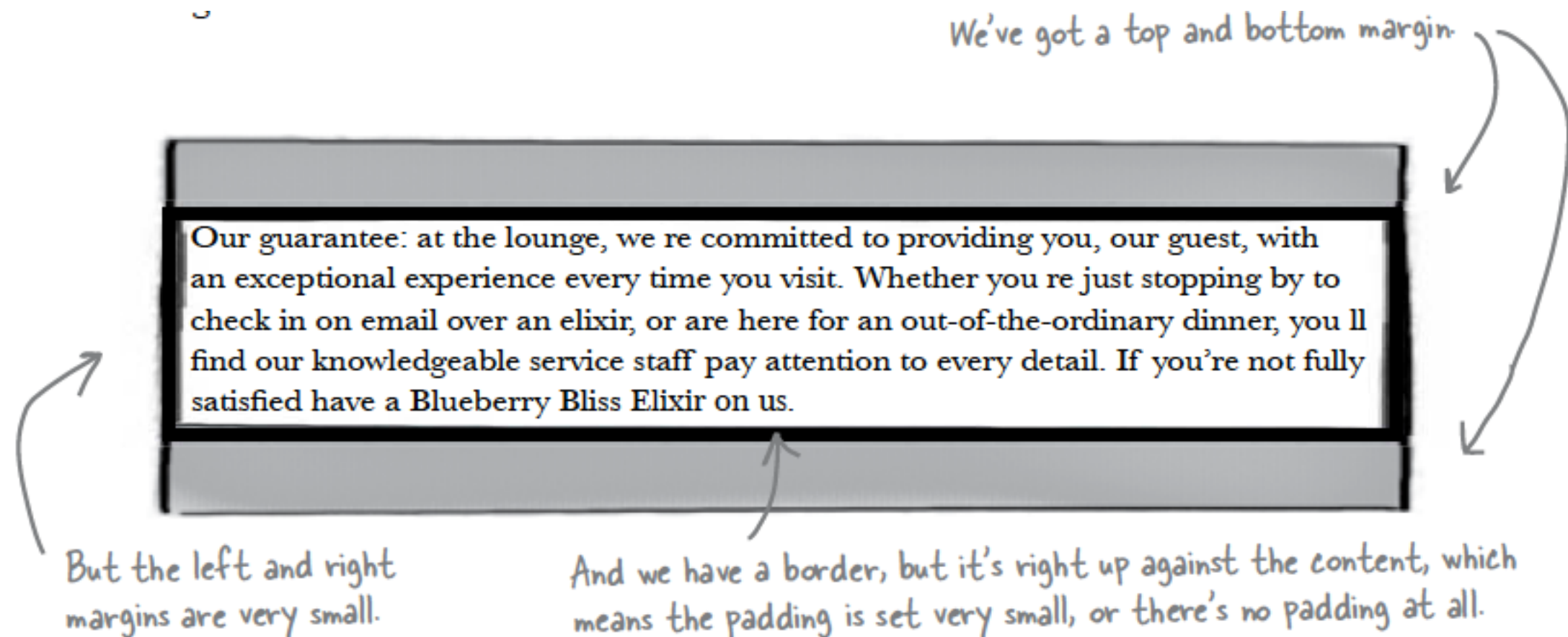
But that's not all; at night, join us in the backroom as our resident DJ spins a choice selection of trance and drum&bass beats across our spacious tiki-themed dance floor. Or just hang out in one of our comfy white vinyl booths at the dance bar. You can have your elixirs delivered from the main lounge 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.

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

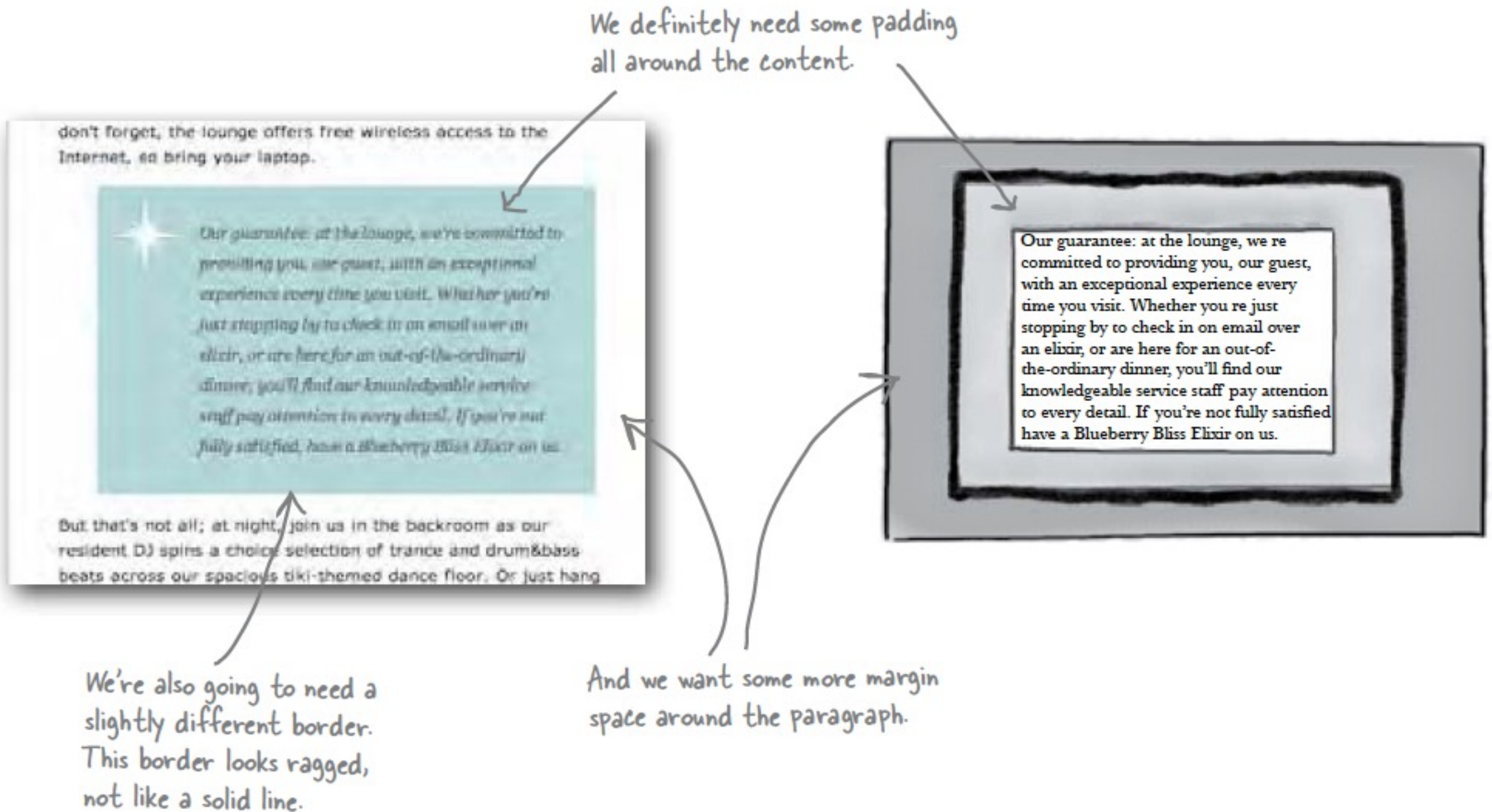
# Box Model

---

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



# What we want:





# Add Padding

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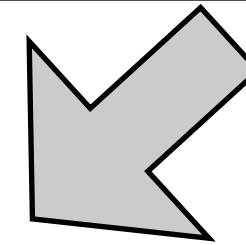
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- Can be either to a number of pixels or a percentage of area inside the border

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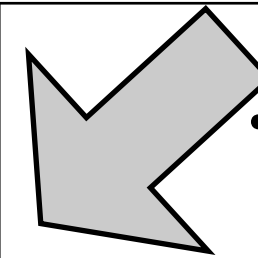
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- Now we have 25 pixels of margin on all sides.

.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

- `<img>` and background images:
  - An `<img>` 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 a culinary menu that uses healthy ingredients.

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- 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

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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;
}
```



# 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 beats  
one of our comfy white vinyl  
the main lounge right to the  
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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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```
.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;
}
```

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 be able to access Internet access.

# 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



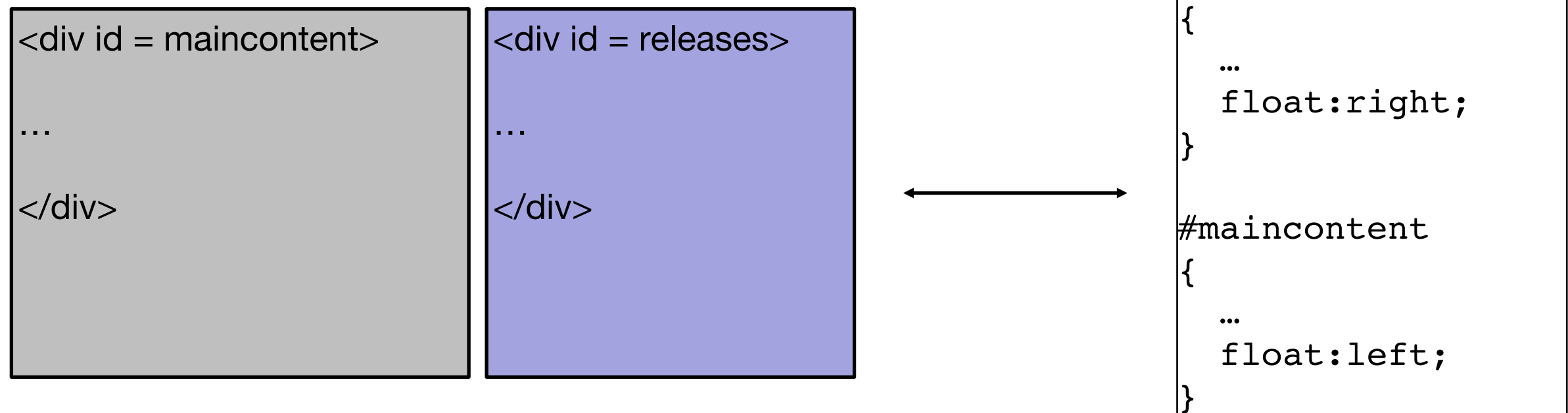


# Using Divs to define Regions of a Page

---

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



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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## Weekly Elixir Specials



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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.

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