

CSS: The Box Model

Web Development

Agenda

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



Welcome to the App Bundle Store

This store brings you *great app bundles* week after week. We select the best power user apps from a broad range of suppliers and combine them into great deals. These are the highest quality apps from the best publishers, at great prices.

Whether you are interested in gaming or graphics design, software development or media production - we have the bundle for you. Each [app bundle](#) is designed to compliment the others, delivering you an exciting take on a scene.

Our guarantee: at the store, we're committed to providing you, with an exceptional quality and reliability. Every application is checked in detail for stability, usability and inter-interopability. If you are unhappy with any individual app in a bundle we will refund you the full amount for the complete suite, no questions asked.

See our new [deals](#) page! - Every week we will introduce new exciting bundles at super low prices!

Favourites

- Hype by Tumult
- Webstorm by Idea
- Sublime, by sublimetext.com
- Desktop Utility by Sweet Productions

To find how to locate our store, visit our [directions](#) page.

Weekly Deals

Business Bundle



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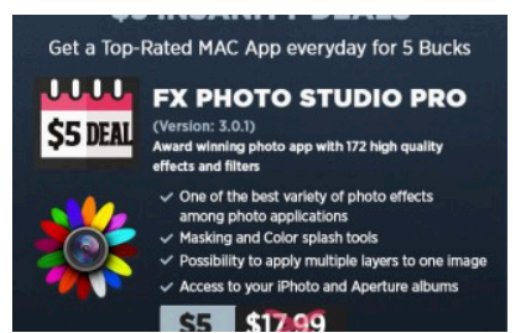
Weekly Deals

Business Bundle

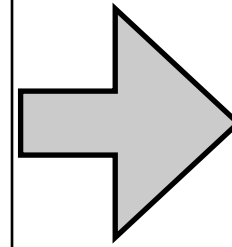


Here comes the next bundle for march. This time it's macware who publish a bundle. The so called macware Business Bundle contains 6 apps at a price of only \$29.99 instead of \$199.94. So you can save around 84%.

Insanity Deal



With the new \$5 Insanity Deals from Bundlehunt you receive every day a highly reduced app for \$5 only with savings up to 75%. Not a real bundle but, as there are multiple apps for only \$5 each, one new per day, for the days to come.



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

h1, h2 {
  color: #007e7e;
  border-bottom: 1px solid black;
}

h1 {
  font-size: 150%;
}

h2 {
  font-size: 130%;
}

p {
  color: maroon;
}
```



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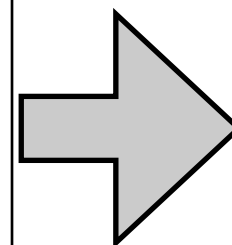
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p {
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```

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.

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

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

- 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/>



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

Not your traditional chai kick for a caffeinated ta



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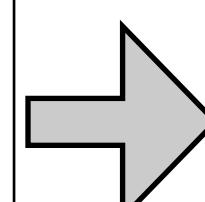
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Weekly Elixir Specials



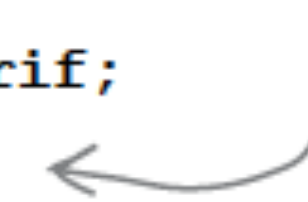
Lemon Breeze

The ultimate healthy drink, this elixir combines herbal botanicals, minerals, and vitamins with a going all day



```
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  line-height: 1.6em;
}
```

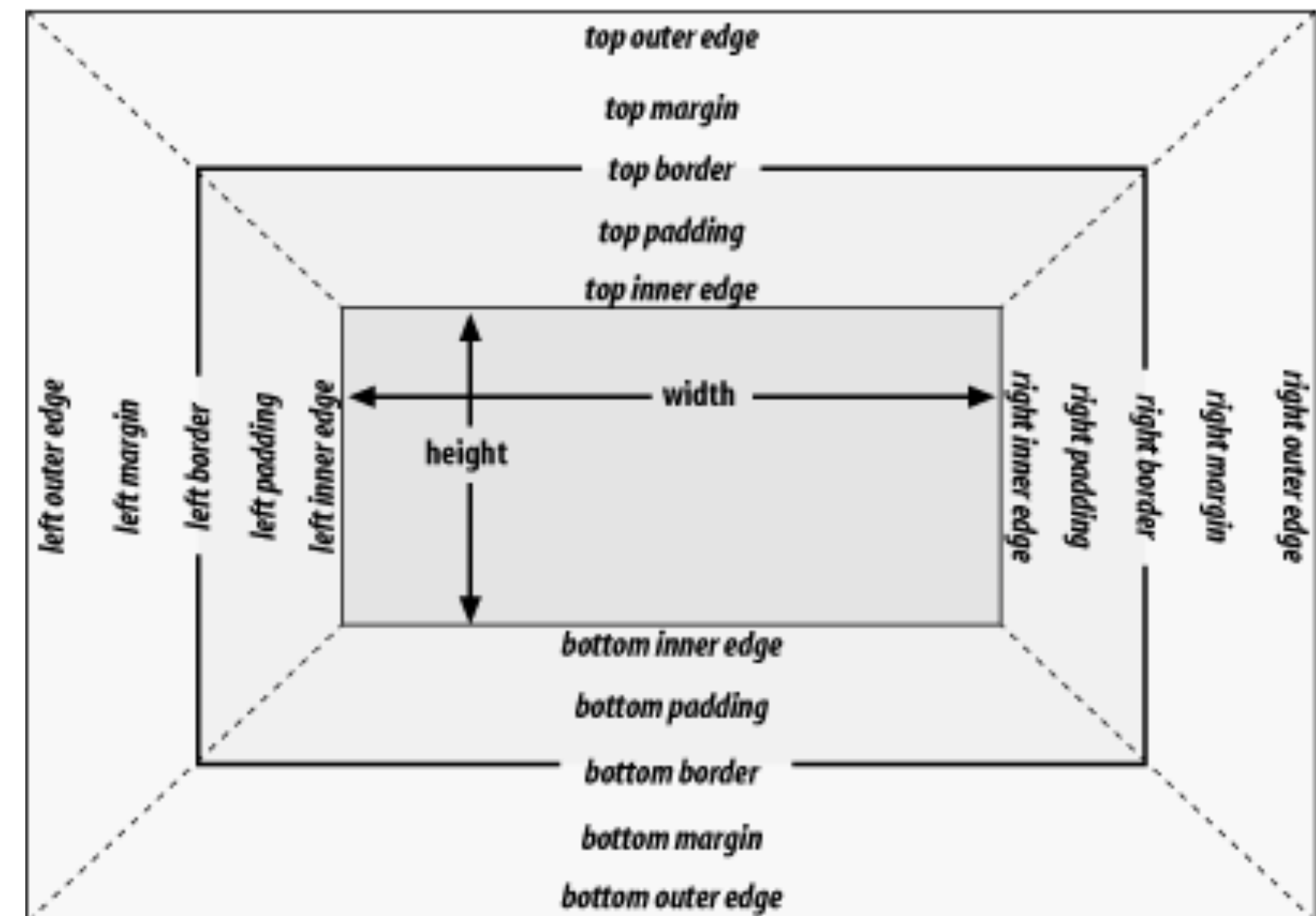
Here we're changing the space between each line to 1.6em, in other words, 1.6 times the font size.



CSS Box Model

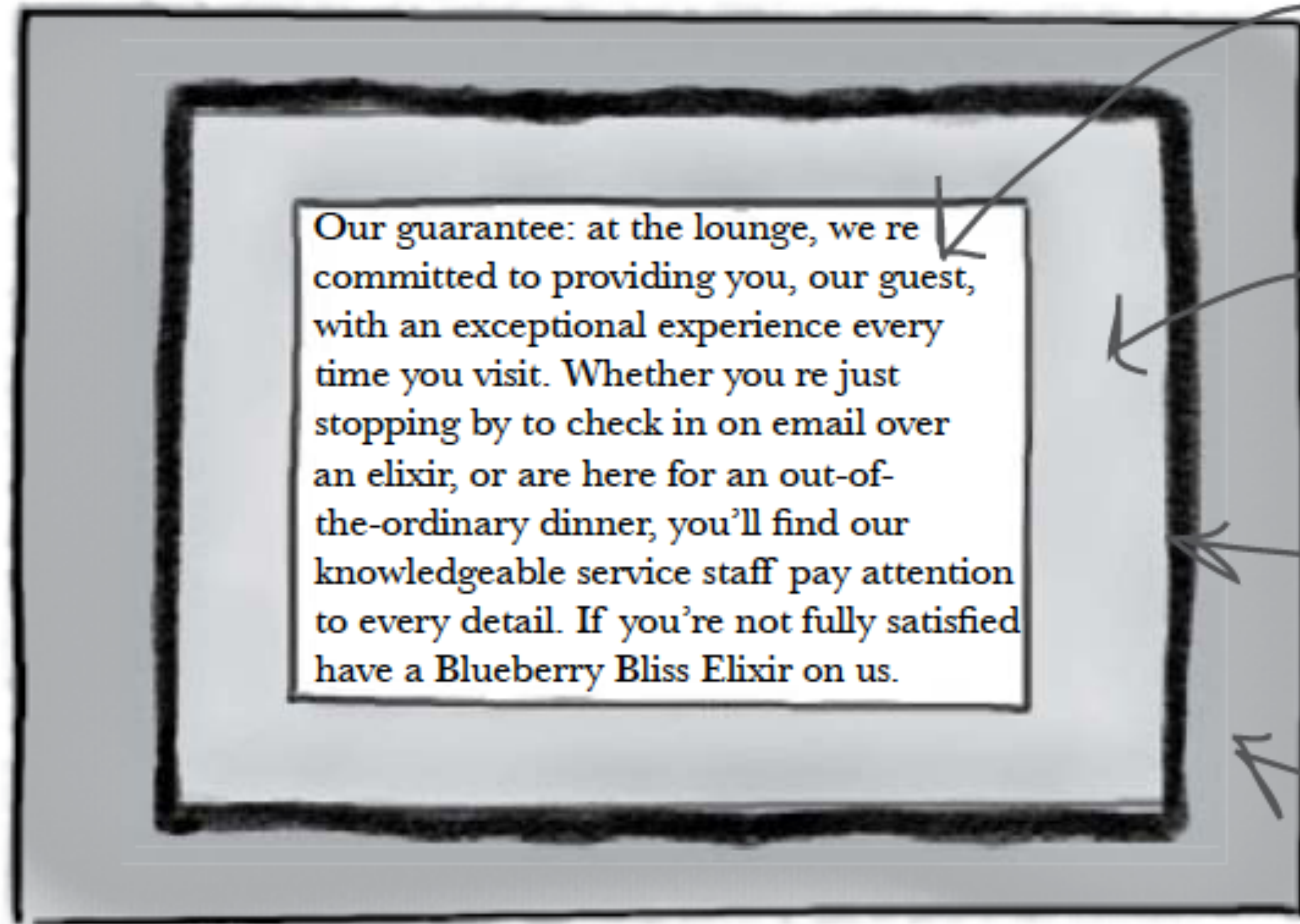
- So far, your CSS has focussed on changing simple properties of elements, like size and color. For effective layout control, you have got to move on to the box model.
- The **box model** is how CSS sees elements.
- CSS treats every single element as if it were represented by a box.
- All elements are 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.



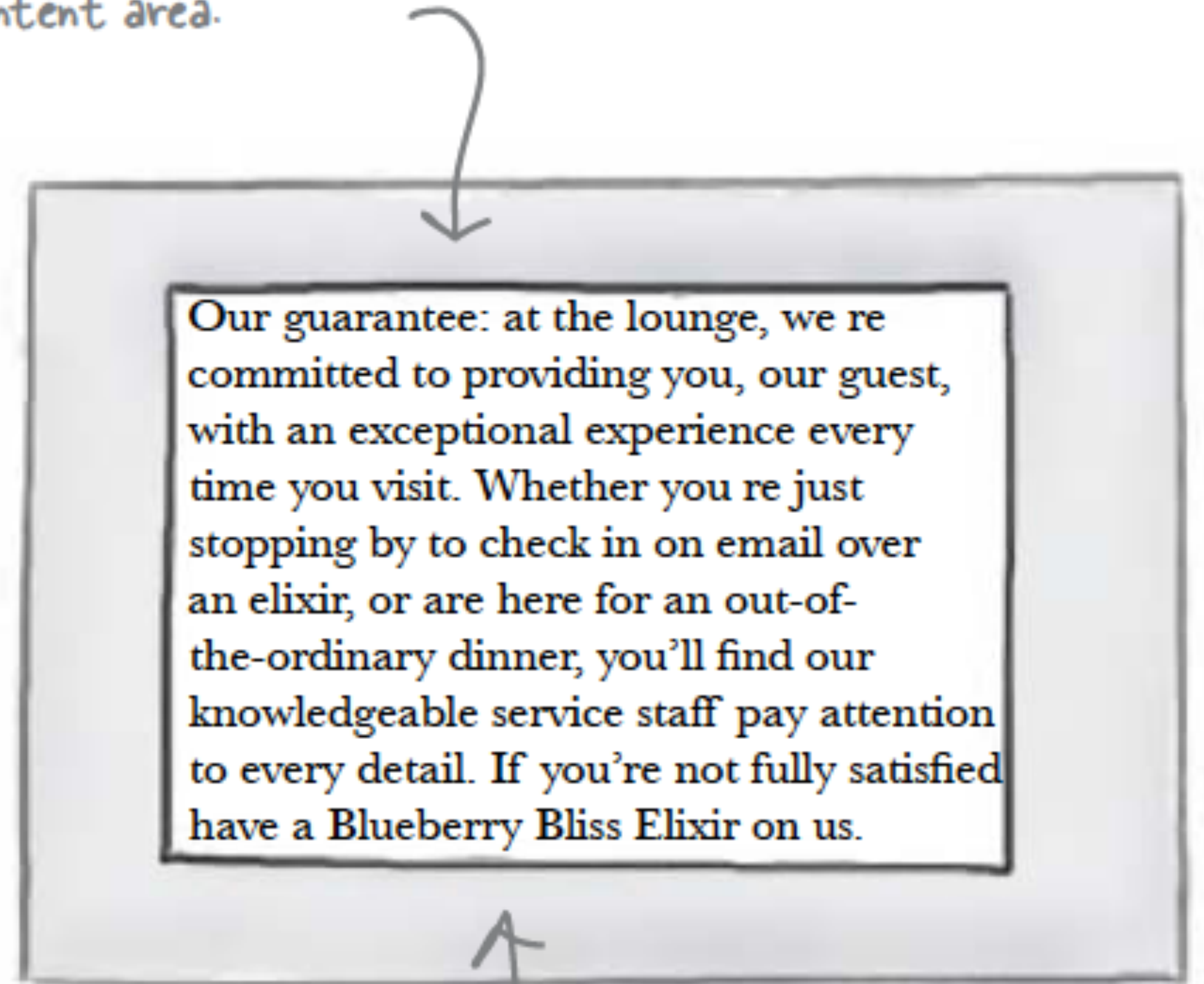
Our guarantee: at the lounge, we re committed to providing you, our guest, with an exceptional experience every time you visit. Whether you re just stopping by to check in on email over an elixir, or are here for an out-of-the-ordinary dinner, you'll find our knowledgeable service staff pay attention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

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.



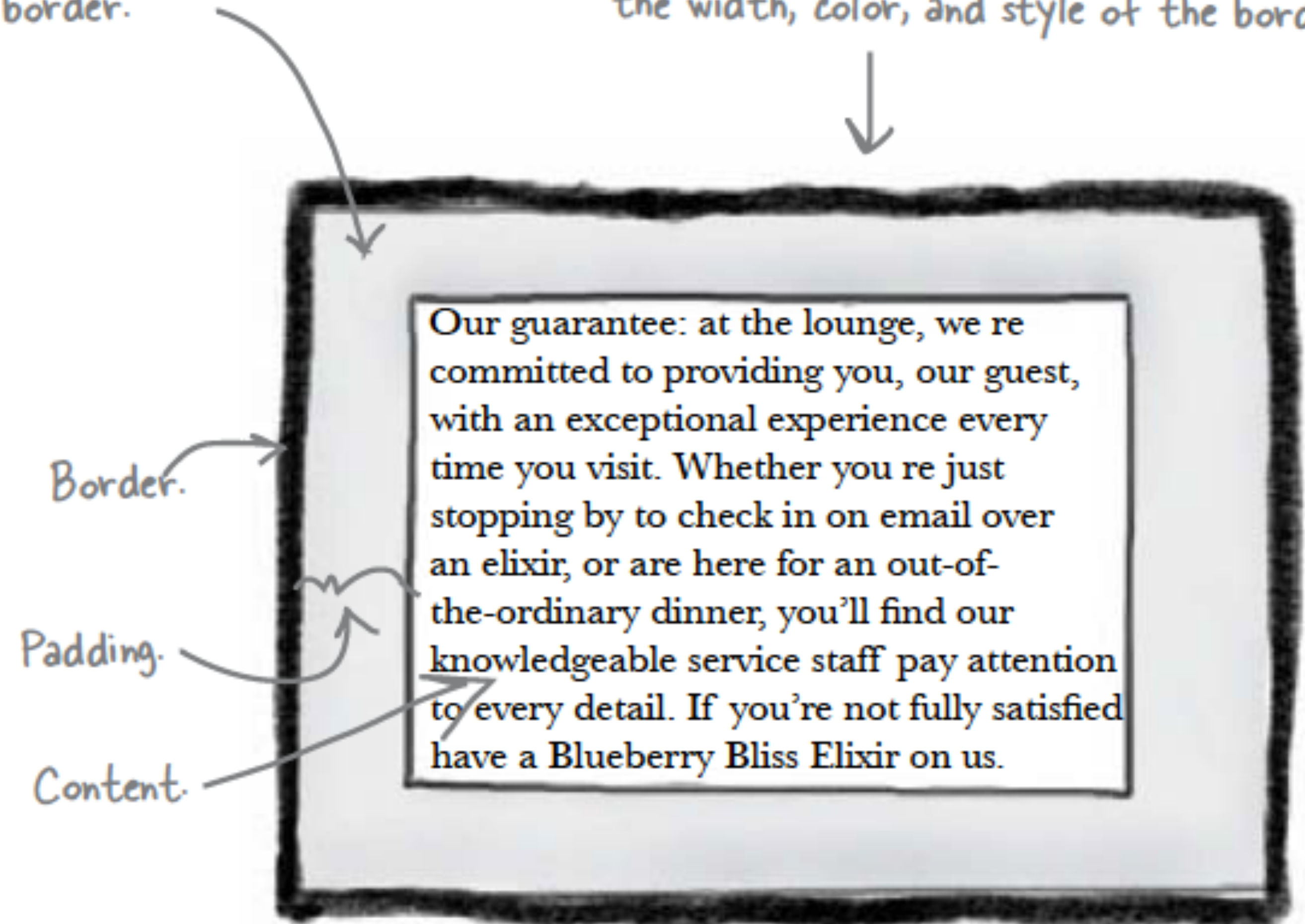
Using CSS, you're going to be able to control the width of the padding around the entire content area, or even control the padding on any one side (top, right, bottom, or left).

Border

- 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

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

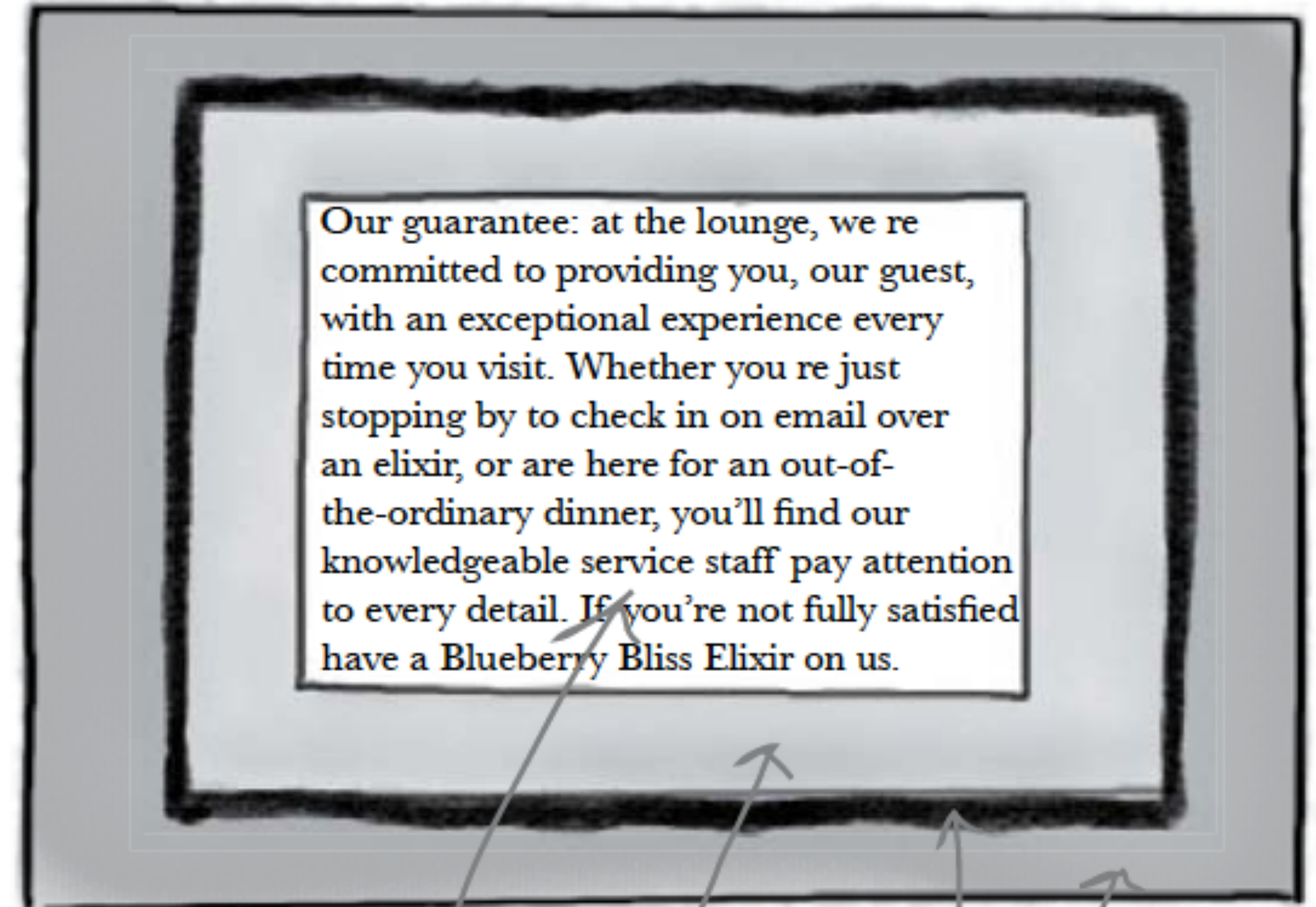
Using CSS, you're going to be able to control the width, color, and style of the border.



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.

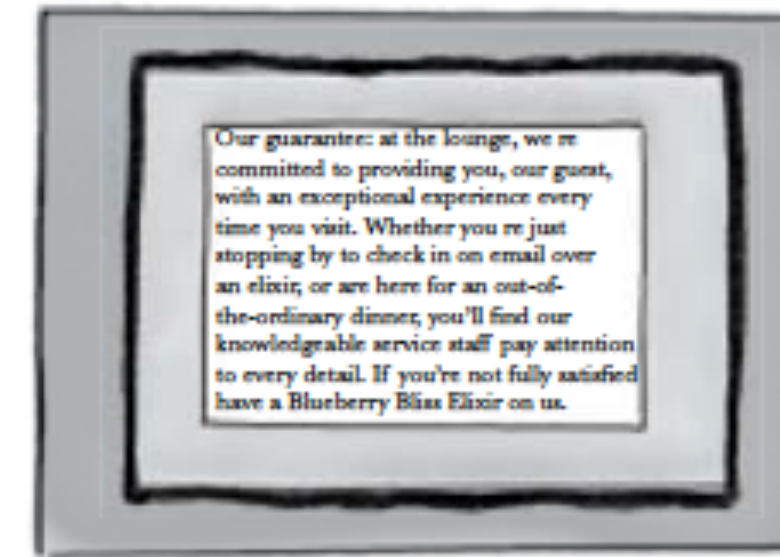
Padding.

Border.

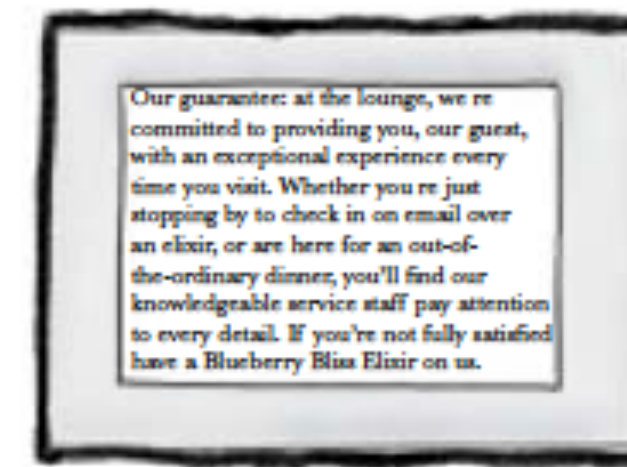
Margin.

Variations: Boxes

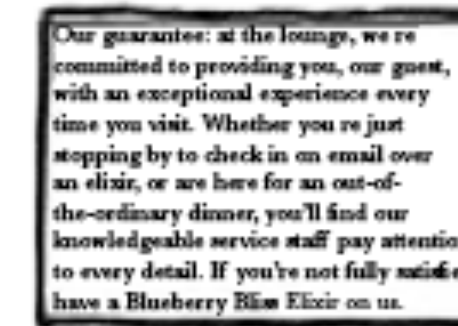
- The box model may look simple with just the content, some padding, a border, and margins.
- But when you combine these all together there are endless ways you can determine the layout of an element with its internal spacing (padding) and the spacing around it (margins).



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



Or, just padding and a border.



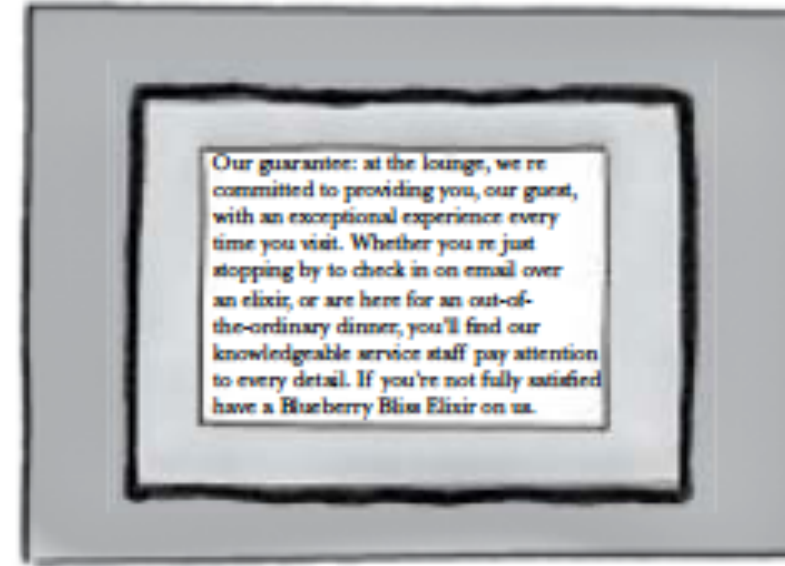
Or just a border.



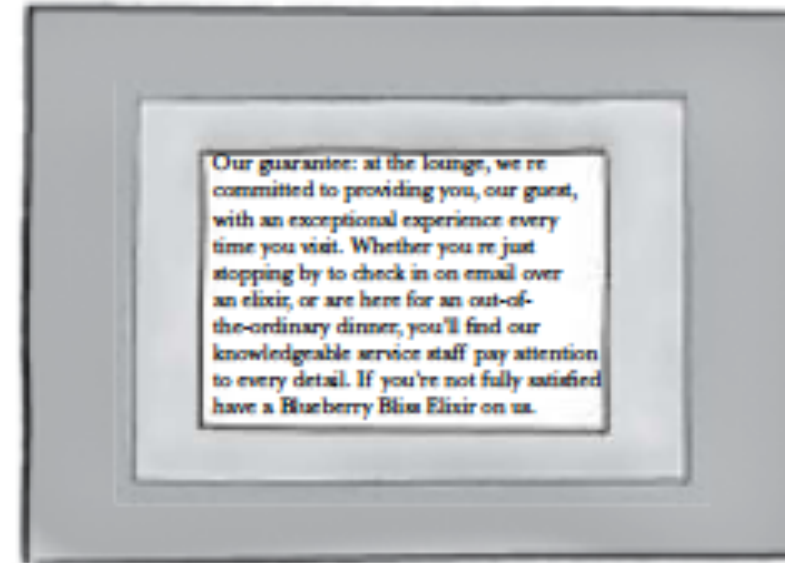
Or a margin with no border and no padding.

Variations: Borders

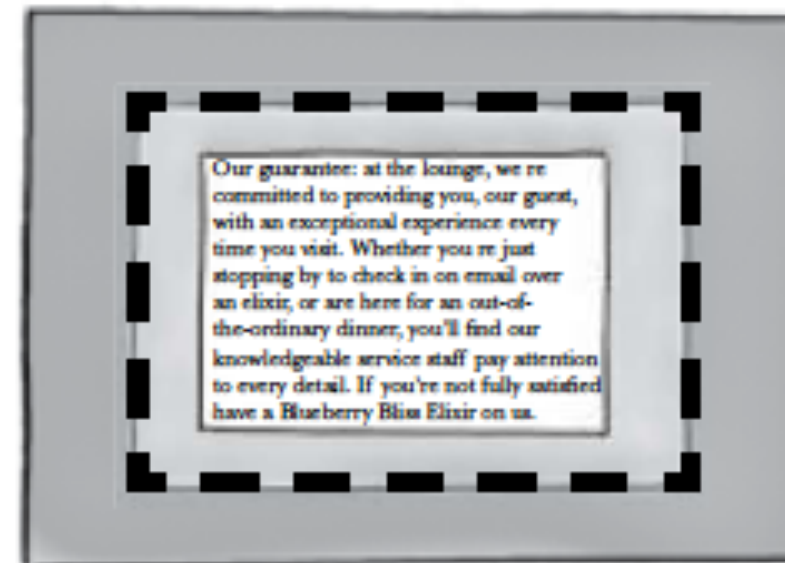
You can have solid borders, thick or thin.



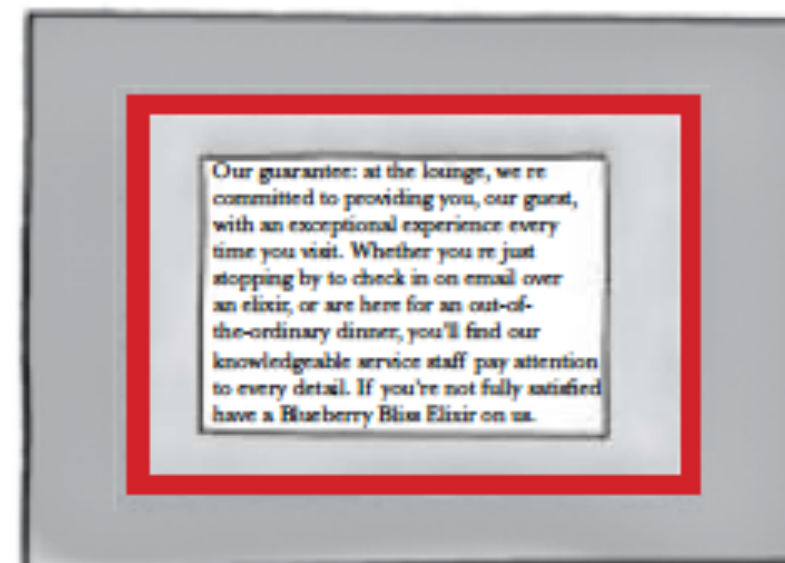
Or no border at all.



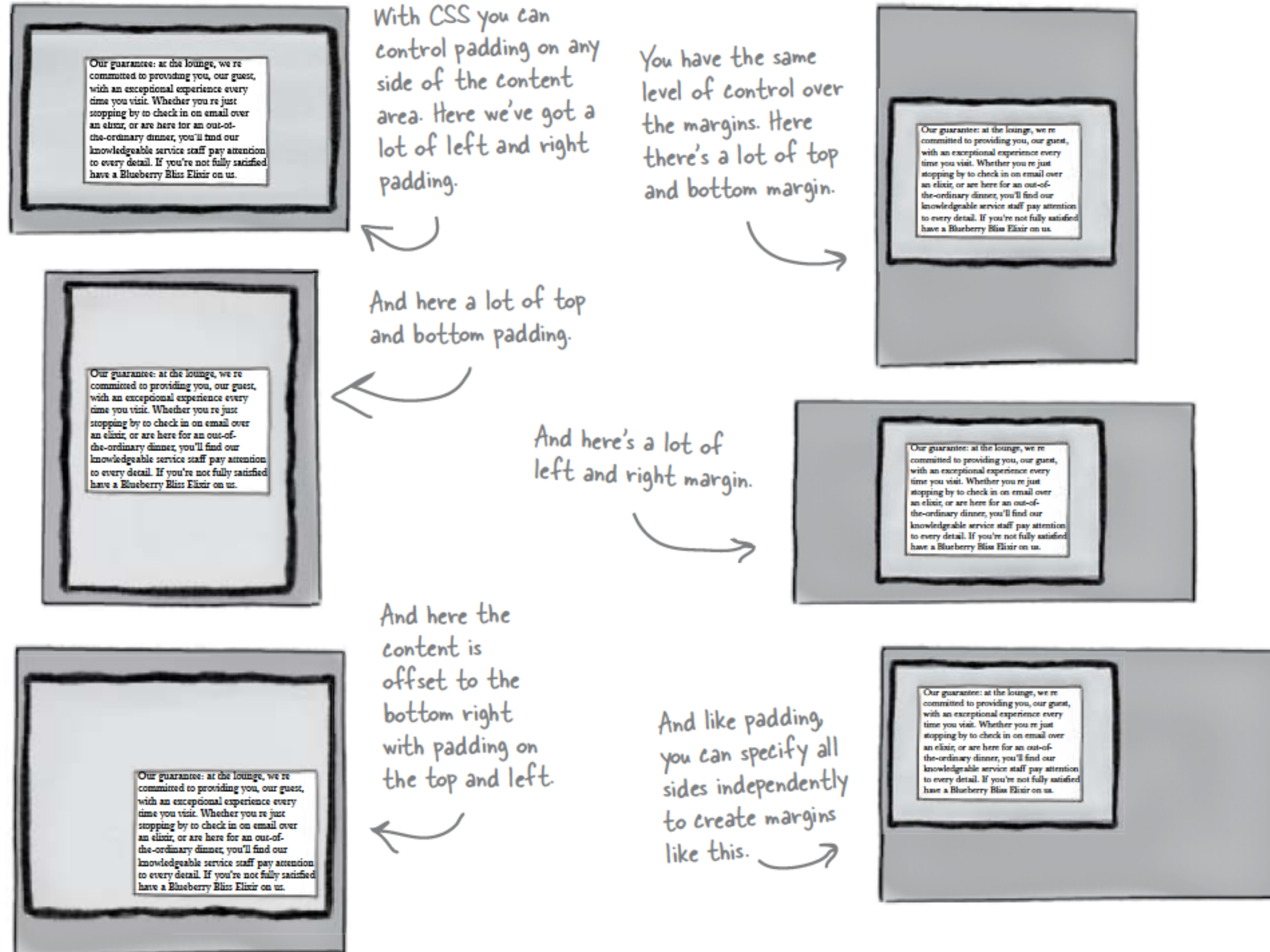
Or choose from eight different styles of borders, like dashed.



Or even color your borders.



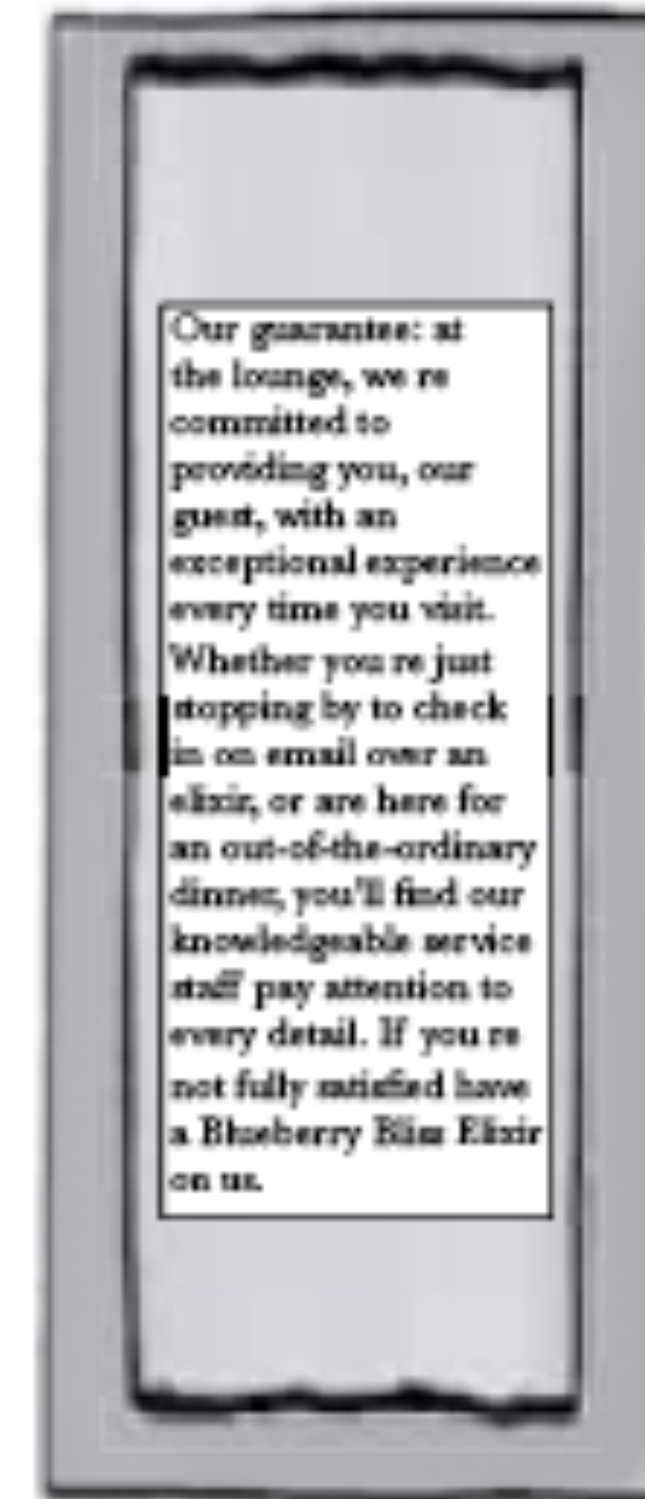
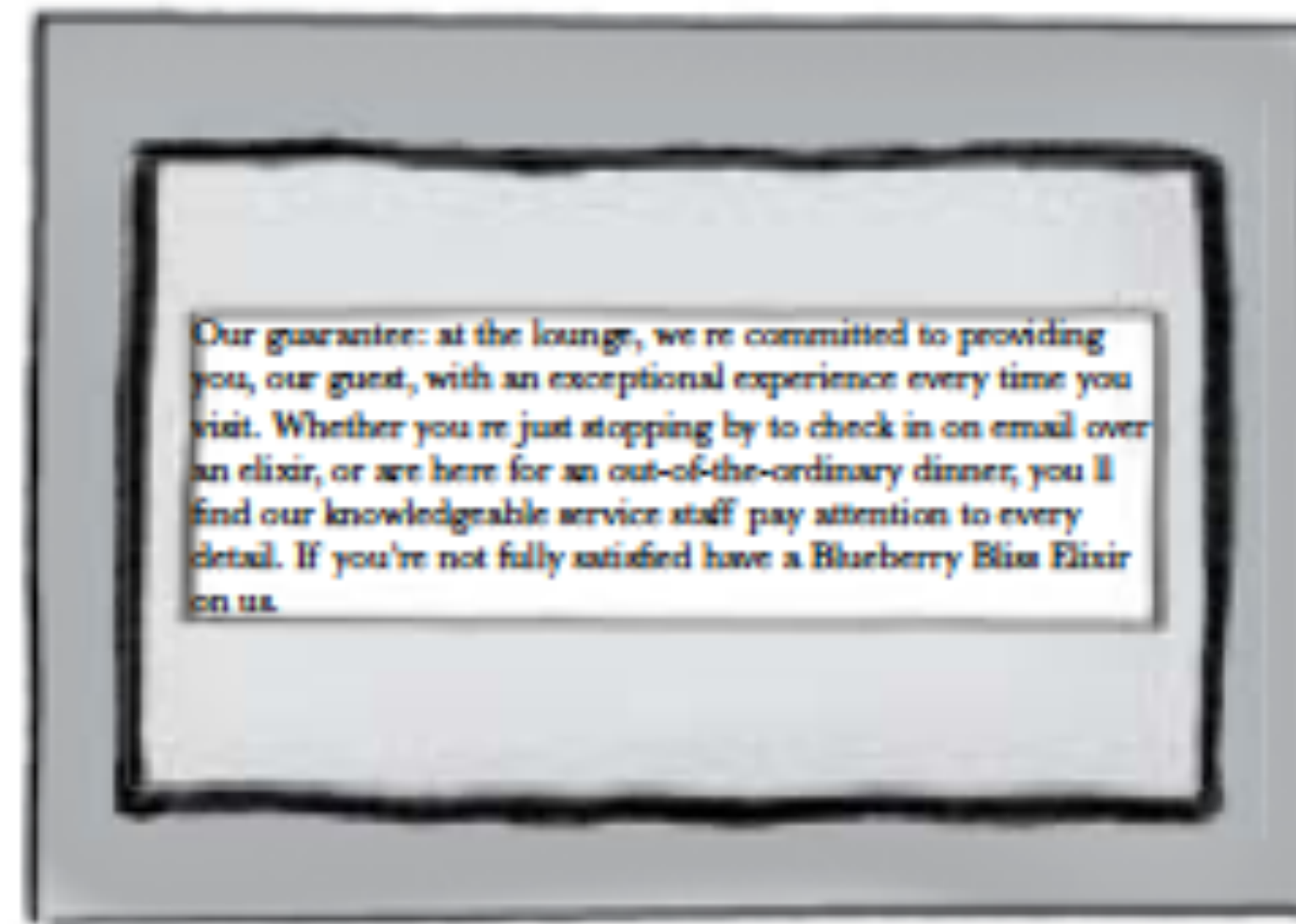
Variations: Padding & Margins



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.

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.










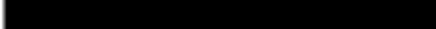

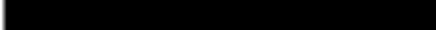
I'm more fun; I've got **ridges**.

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.