

# LEVEL 4 INAGES



### The three types of webpage images

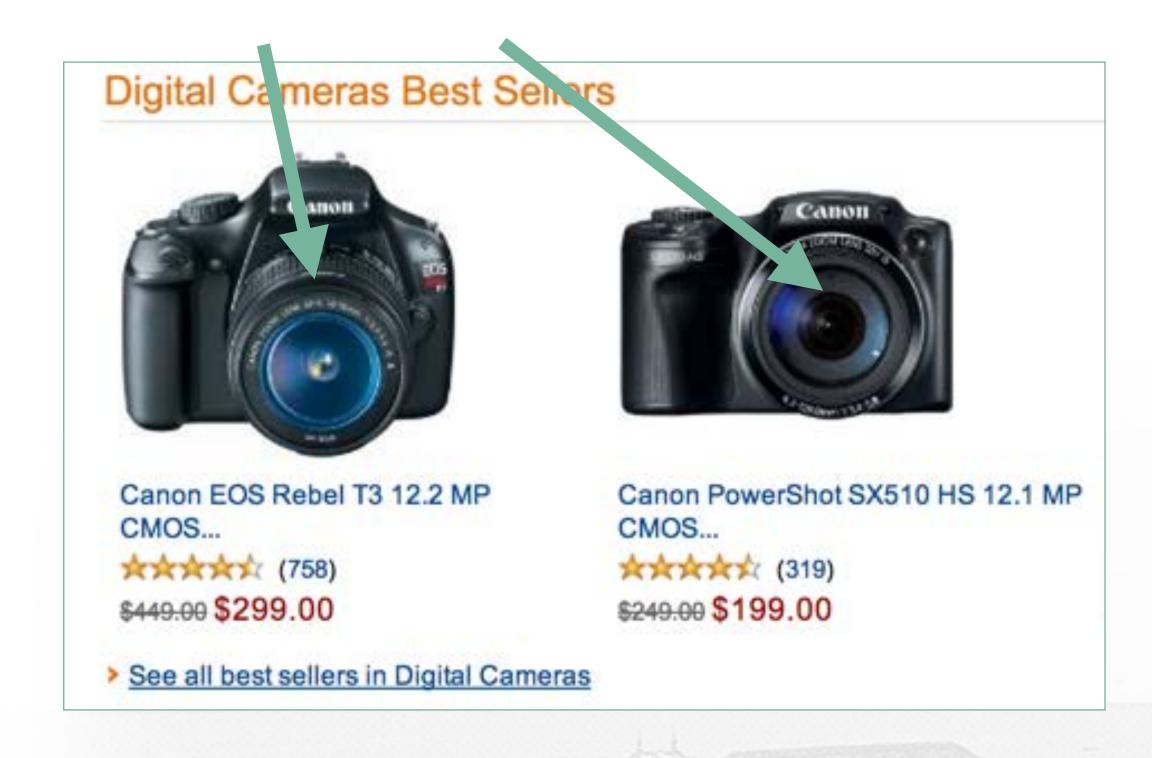
Most images on webpages fall into one of these three categories

- Content Images
- Layout Images
- User Interface Images



### Content images

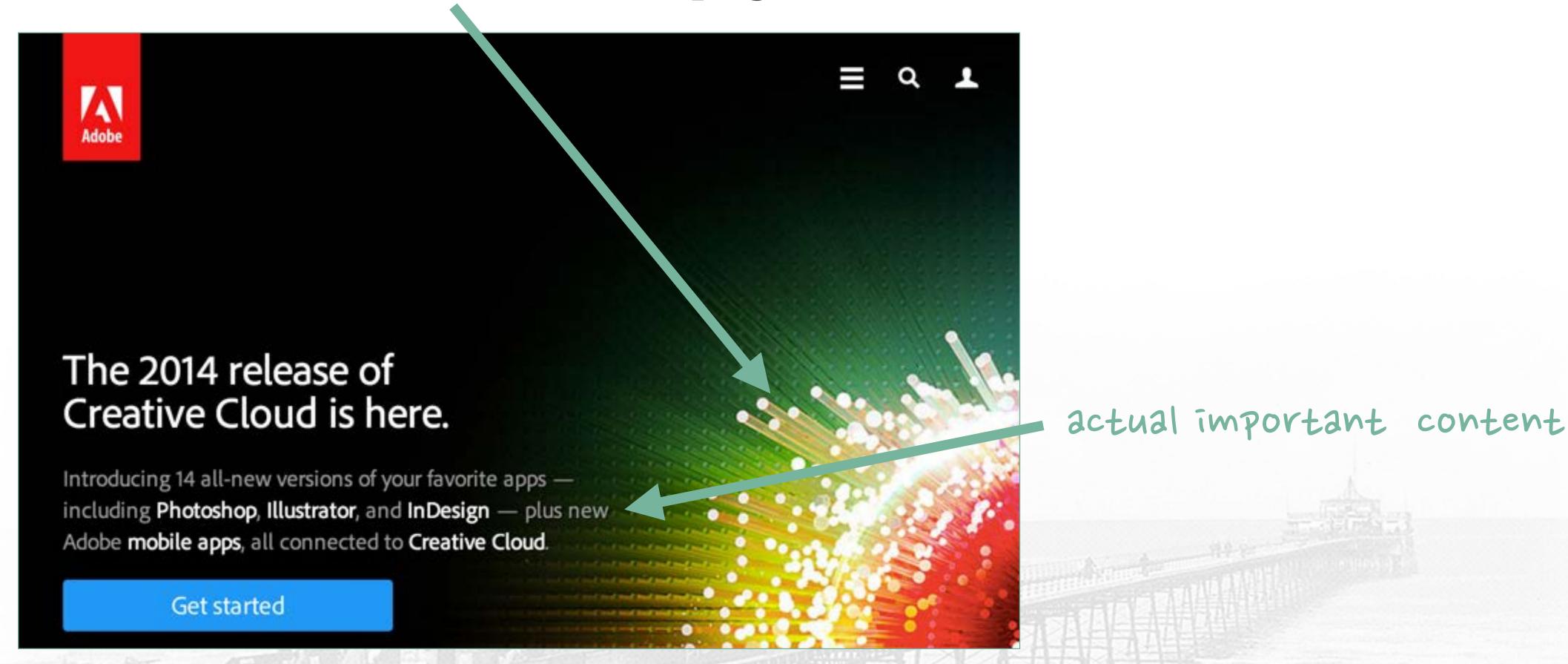
Content images are any images that are just as necessary to the page as all of the text.





### Layout images

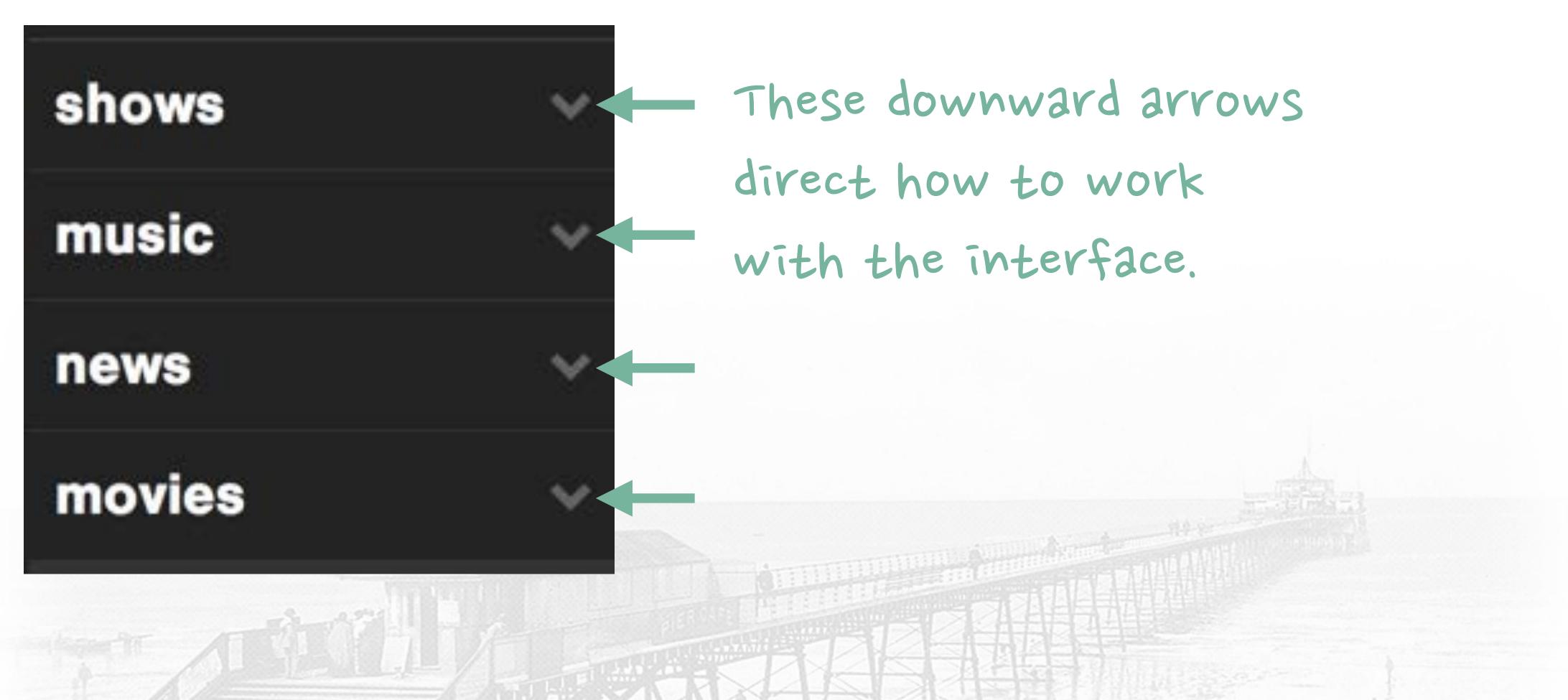
These are in the background, and are not necessary to understand the content of the page.





### User Interface images

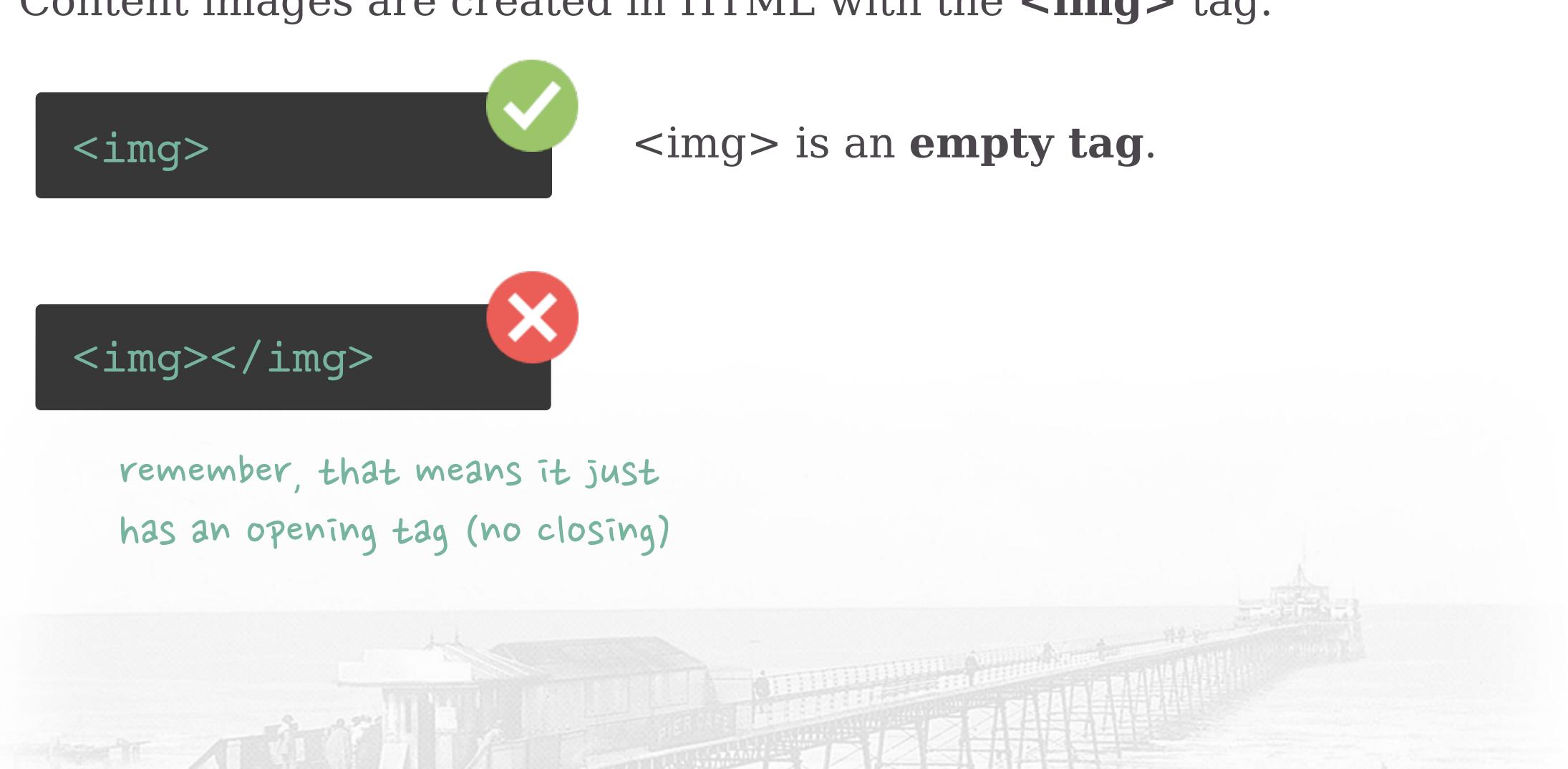
These assist with the interface of the webpage, but are not required to understand the content of the page.





### Creating content images

Content images are created in HTML with the <img> tag.





### Creating content images

Content images are created in HTML with the <img> tag.



Instead of open/close tags, add an **src attribute** to set which image is used.

### Recipe World server files

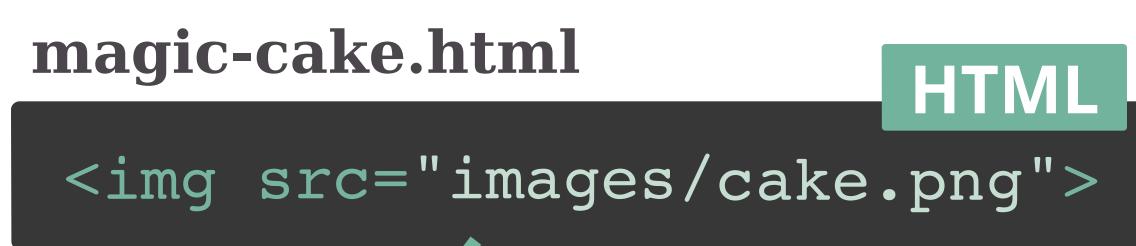




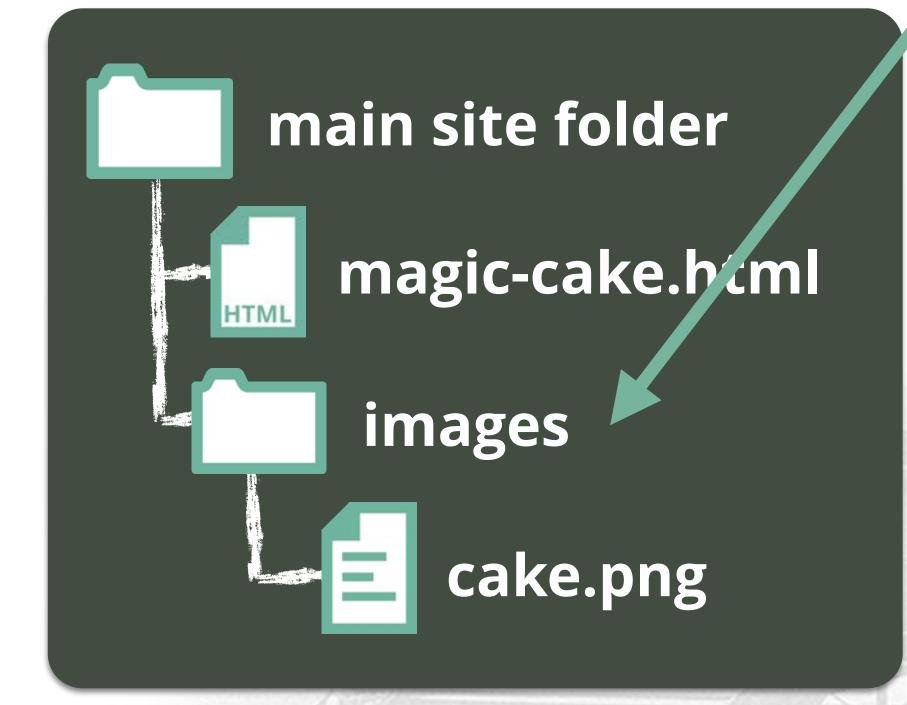


# Putting images in their own folder

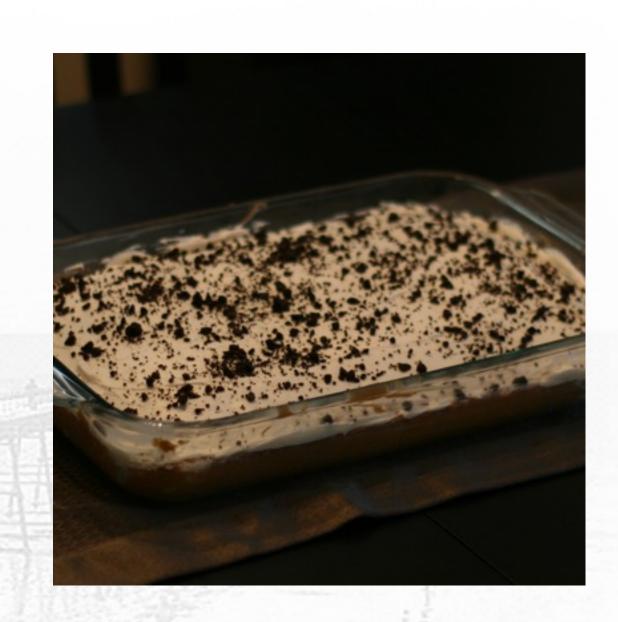
It makes sense to organize your images so they aren't in the main site folder.



### Recipe World server files



now all of your images can go in the images folder





## How images are loaded

### Recipe World server files



Browser requests magic-cake.html

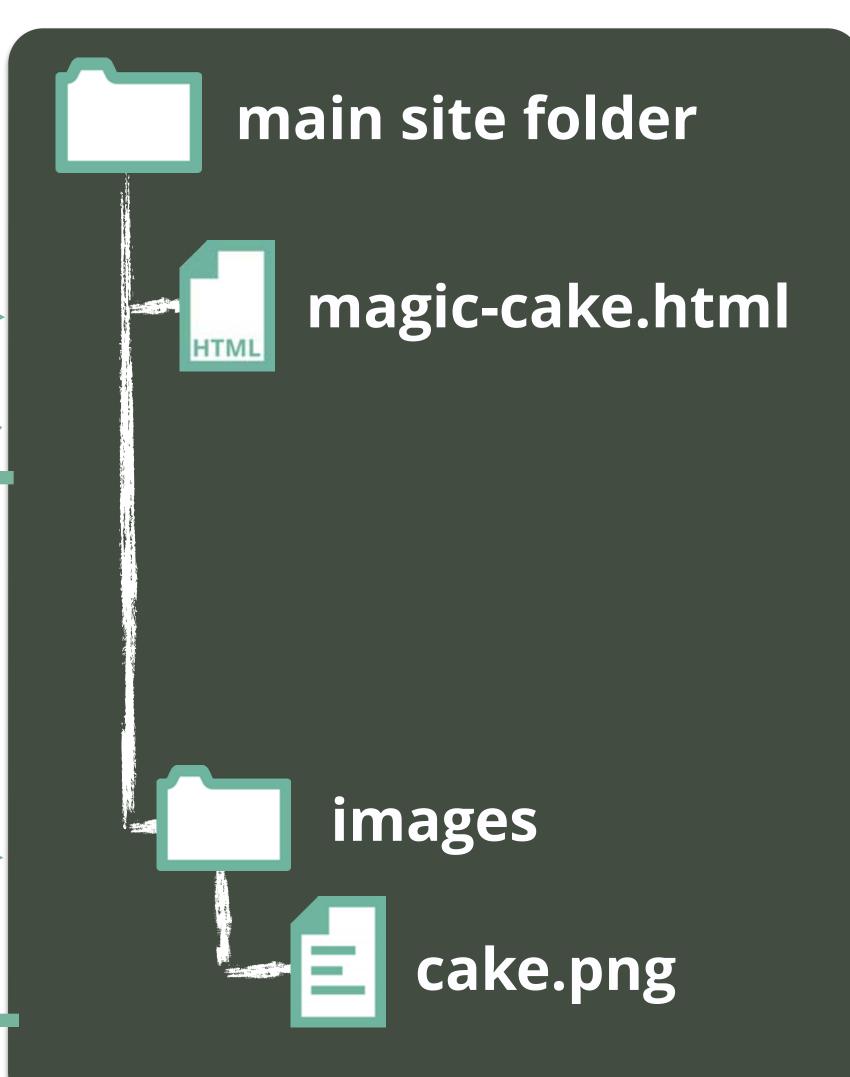
The magic-cake HTML is loaded in the browser

<img src="images/cake.png">

Browser finds this html

Browser requests images/cake.png

cake. Png contents are returned and displayed



### Adding alt attributes to content images

The alt attribute should contain text that describes the image or the purpose of the image.

### magic-cake.html



<img src="images/cake.png" alt="Magic Cake Photo">



Not everyone who views your page will be able to view the images.

Screen readers rely on alt tags to describe images to visitors that might not be able to view images.



## Laying out content images

<img> is an inline-level tag, but they are often put inside block-level tags.

This is similar to <a> tags, which almost always appear as children of block-level tags.

```
magic-cake.html
<h3>Your Photos</h3>
```



# Laying out content images

#### **Directions**

- 1. Mix eggs, sugar, and butter in a large bowl.
- 2. Spread into a non-stick dish
- 3. Bake at 350 degrees for 1 hour
- 4. Let sit at room temperature for 20 minutes
- 5. Eat and enjoy!

#### **Your Photos**







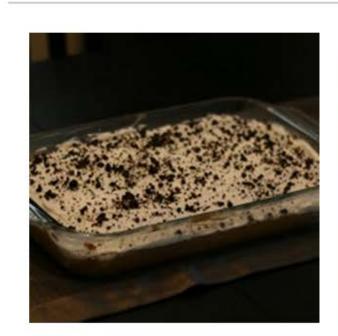
#### **Problem**

We want these
photos to display
side-by-side, like this

#### **Directions**

- 1. Mix eggs, sugar, and butter in a large bowl.
- 2. Spread into a non-stick dish
- 3. Bake at 350 degrees for 1 hour
- 4. Let sit at room temperature for 20 minutes
- 5. Eat and enjoy!

#### **Your Photos**







## Laying out content images

```
magic-cake.html

<h3>Your Photos</h3>

<img...
```



#### **Directions**

- 1. Mix eggs, sugar, and butter in a large bowl.
- 2. Spread into a non-stick dish
- 3. Bake at 350 degrees for 1 hour
- 4. Let sit at room temperature for 20 minutes
- 5. Eat and enjoy!

#### **Your Photos**







CSS

```
.photos {
   list-style-type: none;
   padding: 0;
}
.photos li {
   display: inline;
   padding-left: 11px;
}
```

remove bullets and padding

make the images show horizontally with a little space in between



# Using an image as a site/logo mark

We can  $\underline{\text{replace}}$  the  $<\!\mathbf{h1}\!>$  with an  $<\!\mathbf{img}\!>$  tag.

```
magic-cake.html
                                                          Recipe World
                                             HTML
                                                                                   Home Recipes Suggest
<div class="header">
   <h1>Recipe World</h1>
   ul class="nav">...
                                                                                    Magic Cake
                                                                     Magic Cake is one of the tastiest cakes the world has ever known
                                                                     tried it and lived to tell about it, and these are their stories.
                                                                     We also need to stress that whatever happens to you as a resul
<div class="header">
   <img src="images/logo.png" alt="Recipe World Logo">
   ul class="nav">...
```

# Centering an image inside a block-level tag

<img> is an inline-level tag so it can't be centered with text-align.

Instead, set just that image to **display: block** and center it with the **margin: auto** approach.

```
magic-cake.html
```

```
<div class="header">
    <img src="images/logo.png" alt="Recipe World Logo">
        ...
```

```
.header img {
  display: block;
  margin: 0 auto 0 auto;
}
```

### Recipe World

Home Recipes Suggest

#### Magic Cake

Magic Cake is one of the tastiest cakes the world has ever known. Few have



HTML





### Creating layout images

Layout images are created in CSS with the background property.

### Recipe World

Home Recipes Suggest

### Magic Cake

Magic Cake is one of the tastiest cakes the world has ever known. Few have tried it and lived to tell about it, and these are their stories.

We also need to stress that whatever happens to you as a result of consuming Magic Cake is your responsibility. You've been warned, and you can view our legal page for more information.

#### **Ingredients**

- 2 eggs
- 1 pound of sugar
- 3 sticks of butter



There's several different properties that relate to background images.

background-color works just like the color property.

```
body {
  background-color: #5f5f5f;
}
```

### Recipe World

Home Recipes Suggest

#### **TIP**

You should always set a background color in case the background image fails to load.

#### **Magic Cake**

Magic Cake is one of the tastiest cakes the world has ever known. Few have tried it and lived to tell about it, and these are their stories.

We also need to stress that whatever happens to you as a result of consuming Magic Cake is your responsibility. You've been warned, and you can view our legal page for more information.

#### Ingredients

• 2 eggs

background-image can point to a relative or absolute path.

```
body {
   background-color: #5f5f5f;
   background-image: url(images/gobbler.png);
}

the path has to be inside this url() code

notice that quotes

don't need to be
around the path
```

Magic Cake

Magic Cake is one of the tastiest cakes the world has ever known. Few have trie about it, and these are their stories.

We also need to stress that whatever happens to you as a result of consuming M responsibility. You've been warned, and you can view our legal page for more in the large of the large of

Check out subtlepatterns.com for this and other patterns!



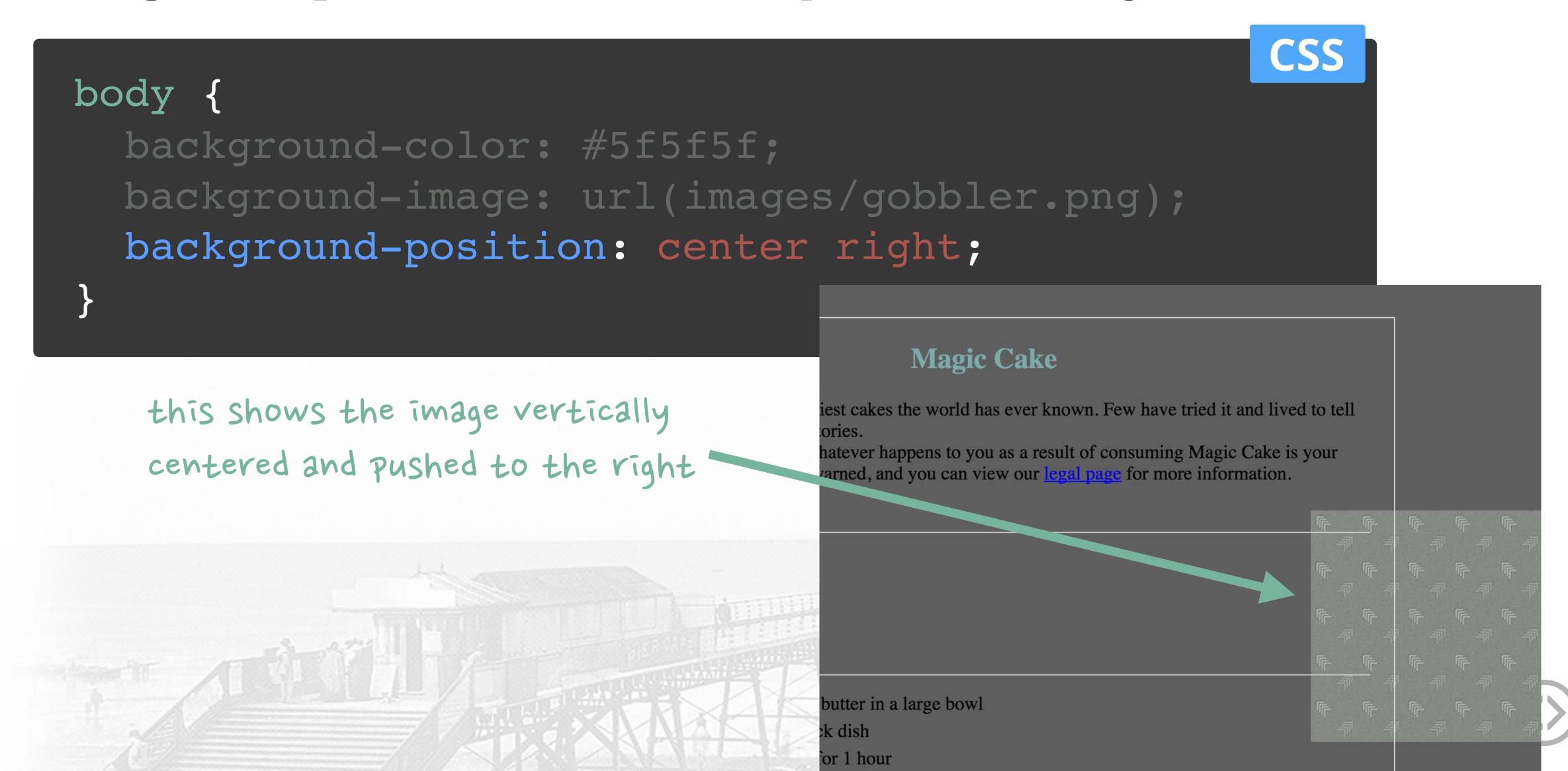
background-position can be used to position the image in a container.

```
body {
  background-color: #5f5f5f;
  background-image: url(images/gobbler.png);
  background-position: top left;
}
```

the first word can be top, center, or bottom the second word can be left, center, or right



background-position can be used to position the image in a container.



background-repeat can be used to repeat tiled images.

```
body {
   background-color: #5f5f5f;
   background-image: url(images/gobbler.png);
   background-position: top left;
    background-repeat: repeat;
                               Magic Cake is one of the tastiest cakes the world has ever known. Few have tried it and lived to tell
                               about it, and these are their stories.
                               We also need to stress that whatever happens to you as a result of consuming Magic Cake is your
                               responsibility. You've been warned, and you can view our legal page for more information.
                                  • 2 eggs
                                  • 1 pound sugar
```



background-repeat can be used to repeat tiled images.

```
CSS
  body {
     background-color: #5f5f5f;
     background-image: url(images/gobbler.png);
     background-position: top left;
     background-repeat: repeat-y;
                                                                 Magic Cake is on
                                                                 about it, and these
Other values
                                                                 We also need to s
                                                                 responsibility. Yo
                tile the image horizontally
repeat-x
                                                                     edients
               tile the image vertically
repeat-y
                                                                    • 2 eggs
                don't tile or repeat anything
no-repeat

    1 pound s

    3 sticks of
```



All four of those can be shortened into a single background property.

```
body {
  background-color: #5f5f5f;
  background-image: url(images/gobbler.png);
  background-position: top left;
  background-repeat: repeat;
}
```

```
body {
   background: #5f5f5f url(images/gobbler.png) top left repeat;
}

color

image

repeat
```

### Creating different tiled backgrounds

We can set different backgrounds for different containers.

Here, we're using one repeated background for the body, another for the main-content, and another for the divs on the recipes page.

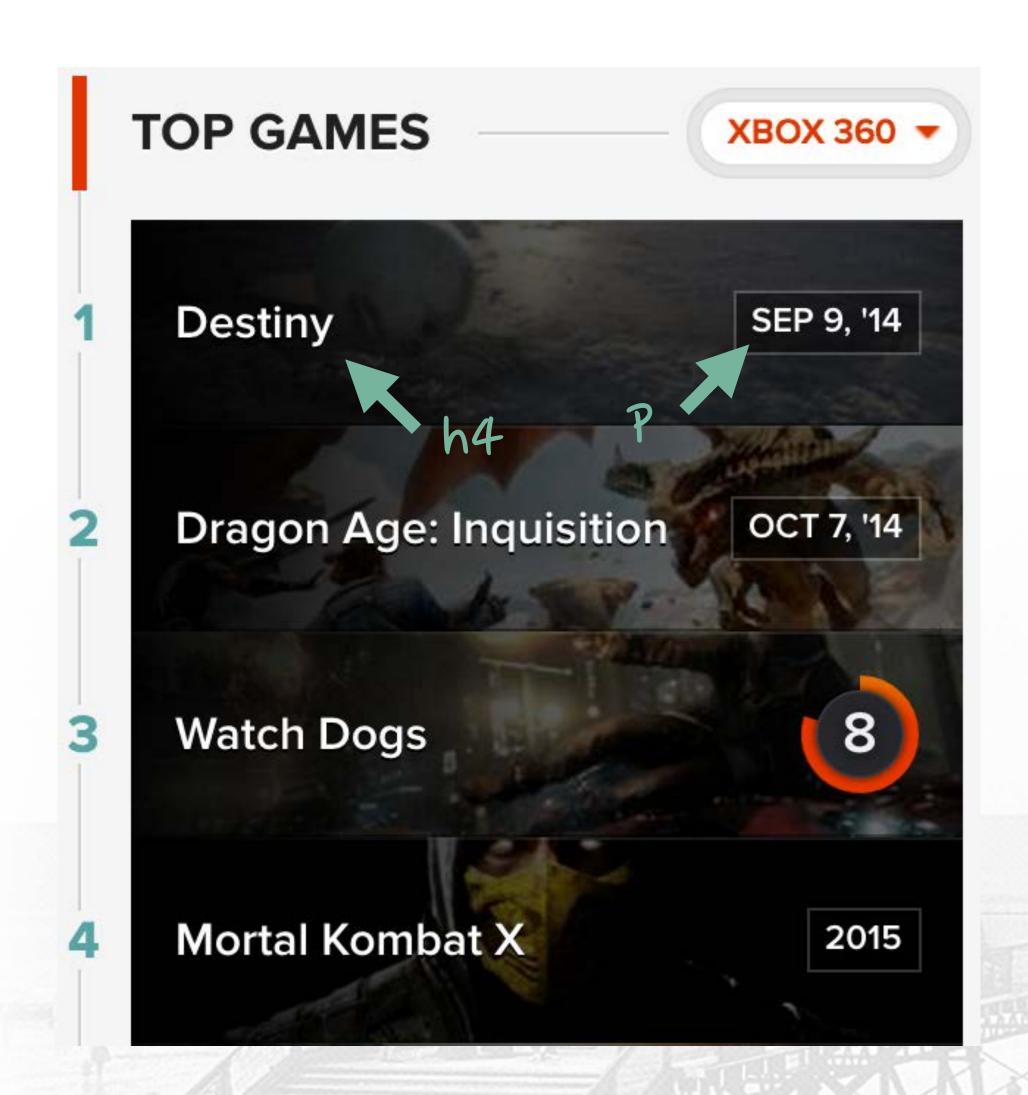
```
body {
 background: #000000 url(images/stardust.png) top left repeat;
.main-content {
 background: #ffffff url(images/crossword.png) top left repeat;
.recipes li {
 background: #ffffff url(images/li-bg.png) top left repeat;
```

# Result of using three different layered backgrounds



### Writing on top of background images

Some sites like to write text over images.



This list on gamespot.com has text for the game name and release date appearing over a background image from each game.

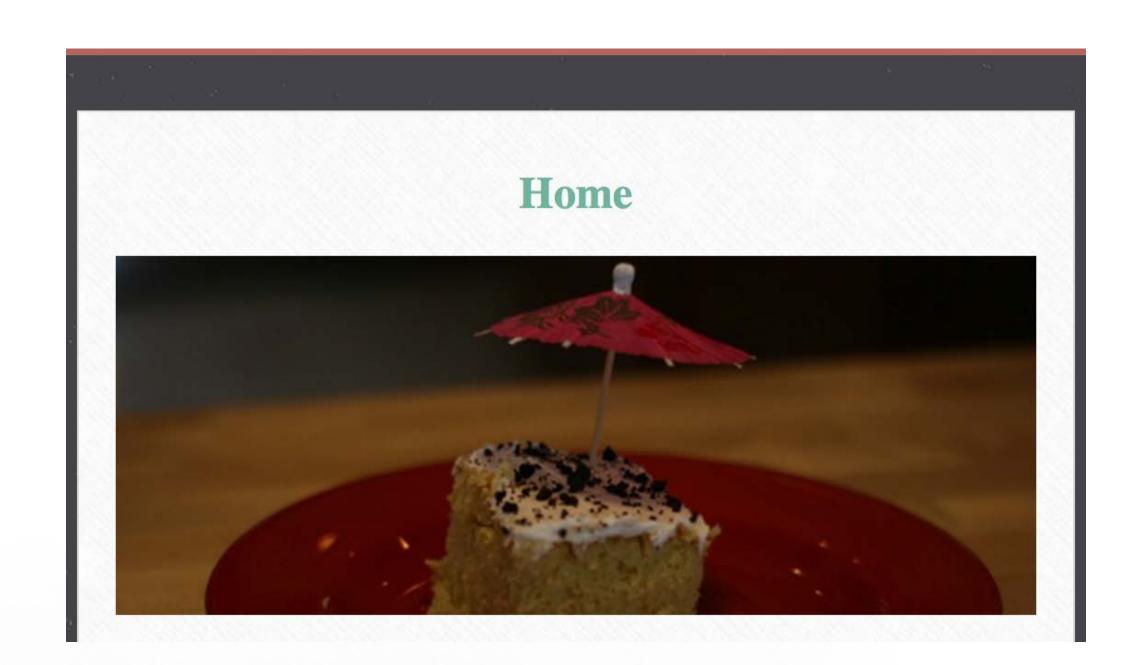


## Writing on top of background images

Some sites like to write text over images.

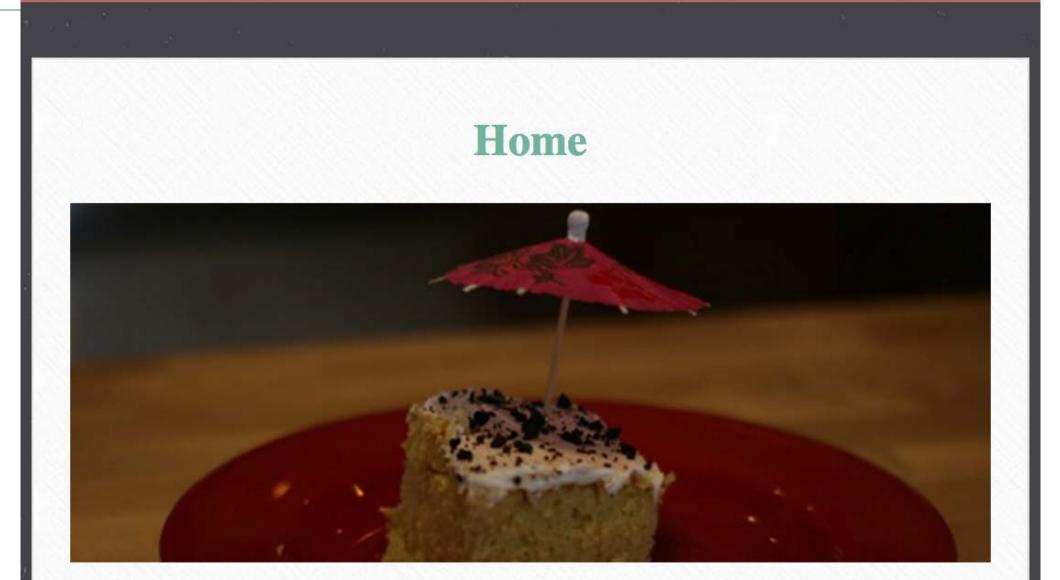
One way to do this is to create an empty div container that completely contains a background image, and put text tags inside of it.

#### home.html





First, add the background image to the container

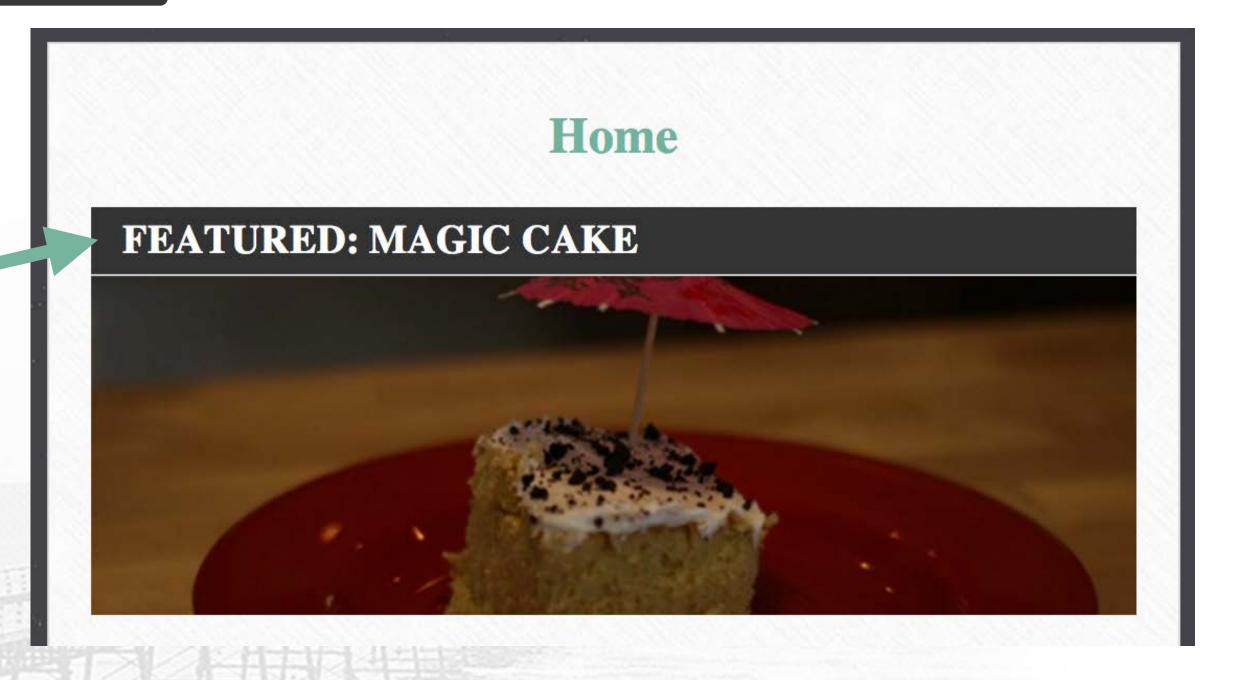


```
.featured-image { these should be equal to the width: 630px; width/height of the image height: 246px; background: #ffffff url(images/featured-cake.png) top left no-repeat; }
```



### Then, add a tag that shows text as a child of that container

```
featured-image h3 {
  margin: 0;
  background-color: #333333;
  color: #ffffff;
  padding: 5px 0 5px 15px;
  text-transform: uppercase;
}
```

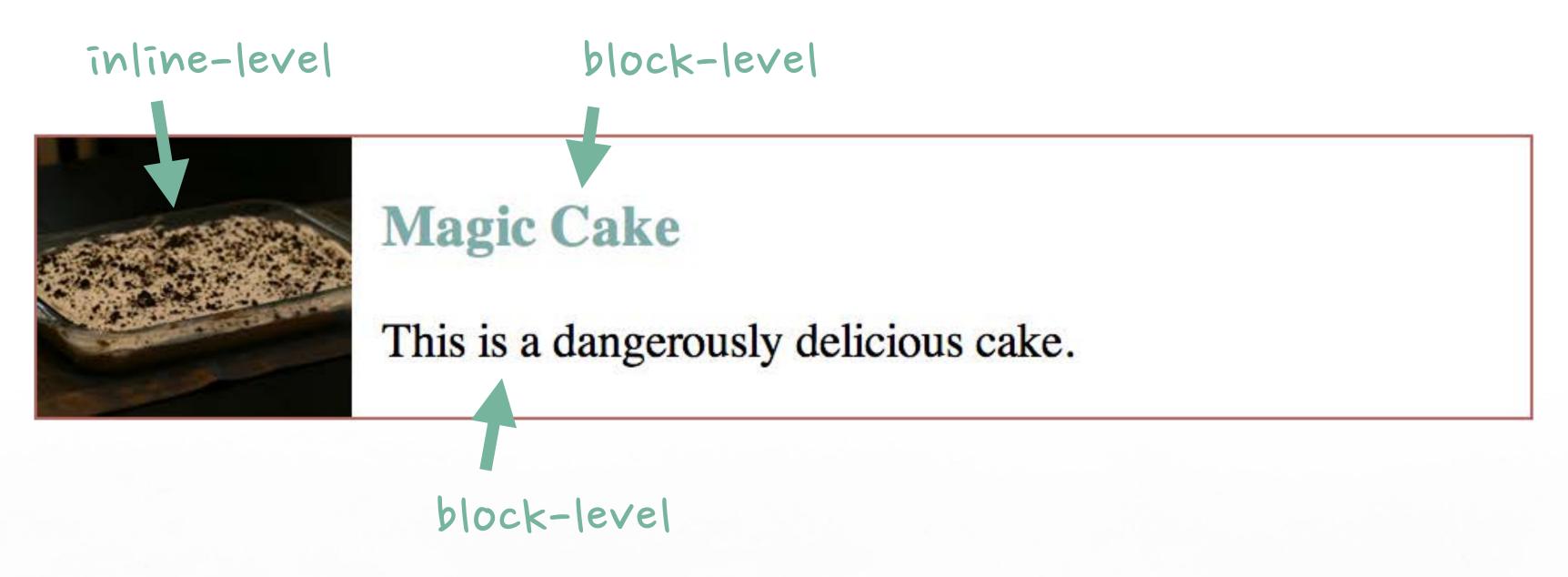






# Displaying an image to the side of block-level tags

We know that tags are either block or inline.

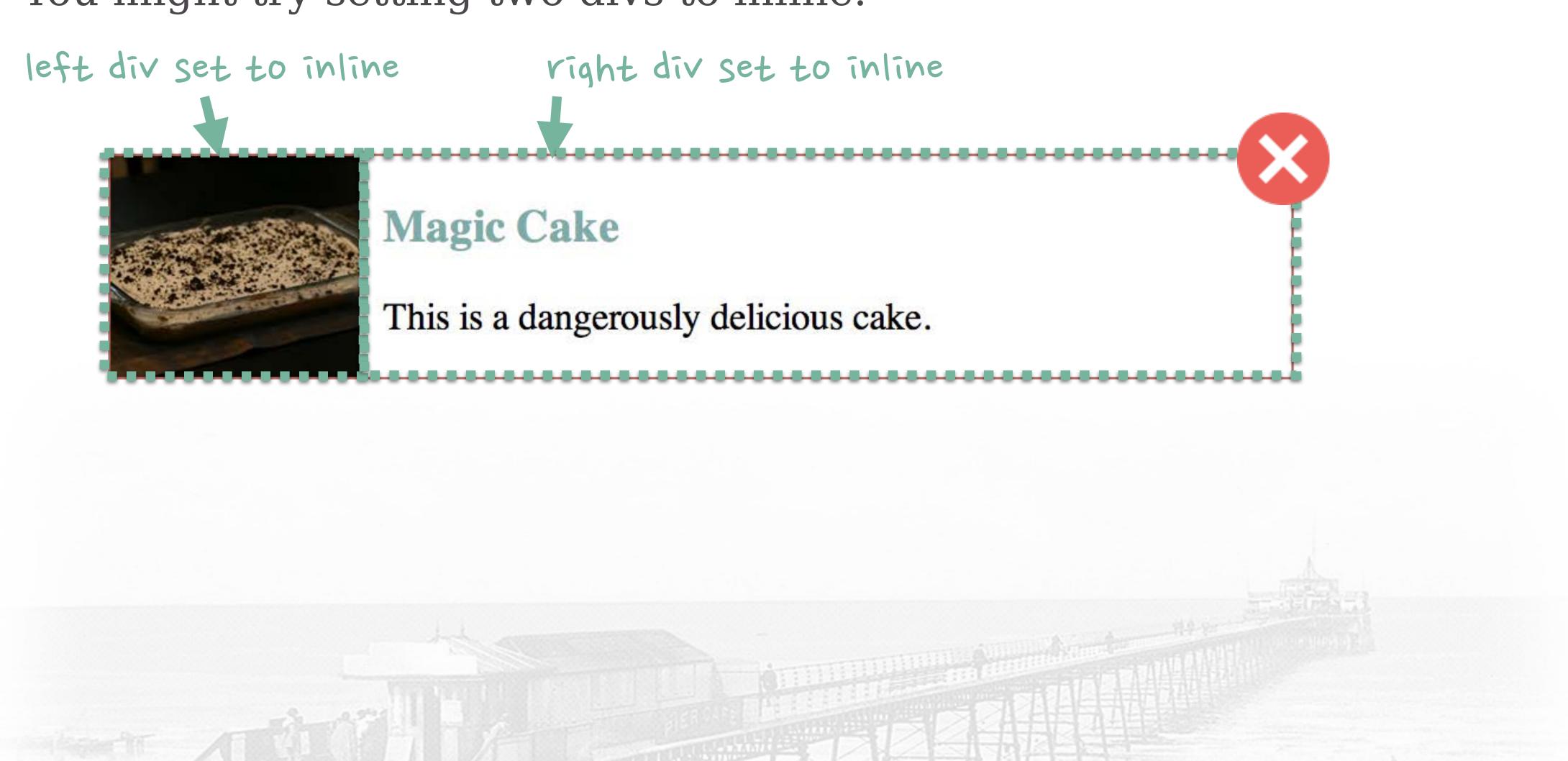


This is an image to left of multiple block-level tags.

How can we make this?



You might try setting two divs to inline.





```
HTML X
magic-cake.html
 <1i>>
   <div>
    <img src=...>
   </div>
   <div>
    <h3><a href=...>Magic Cake</a></h3>
    ...
   </div>
```

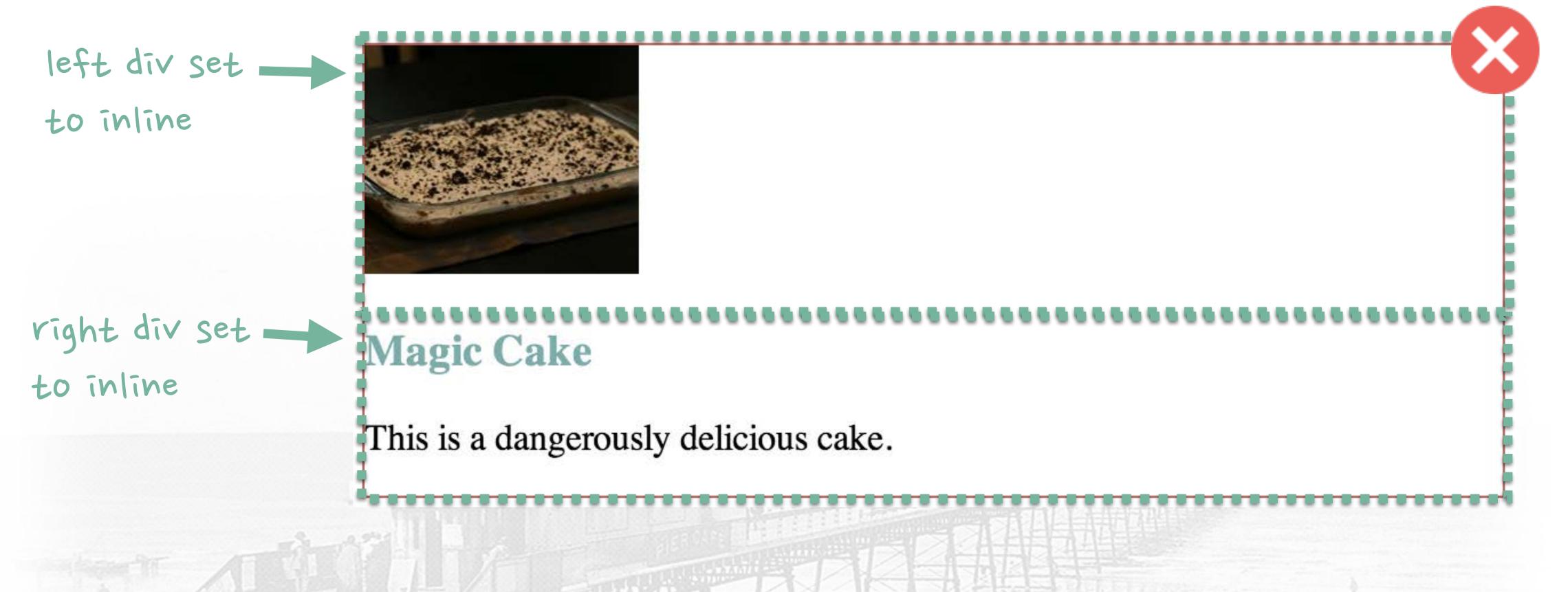
```
Setting these two divs side-by-side with display:inline seems like it would work.
```

```
.recipes div {
  display: inline;
}
```



Turns out, we can't just flip things to inline and then put block-level tags inside of them.

Time to try something else.





Put the img, h3, and p all in one li and float the img left.

```
.recipes img {
  float: left;
}
```

This makes the image take up some of the left space that the **h3** and **p** boxes would normally eat up as block-level tags.

Success! We've also added some right padding so the image doesn't touch right up against the text.

```
.recipes img {
  float: left;
  padding-right: 10px;
}
```

Float is a tricky property that is covered in much greater detail in the CSS Cross Country course!



### Magic Cake

This is a dangerously delicious cake.

