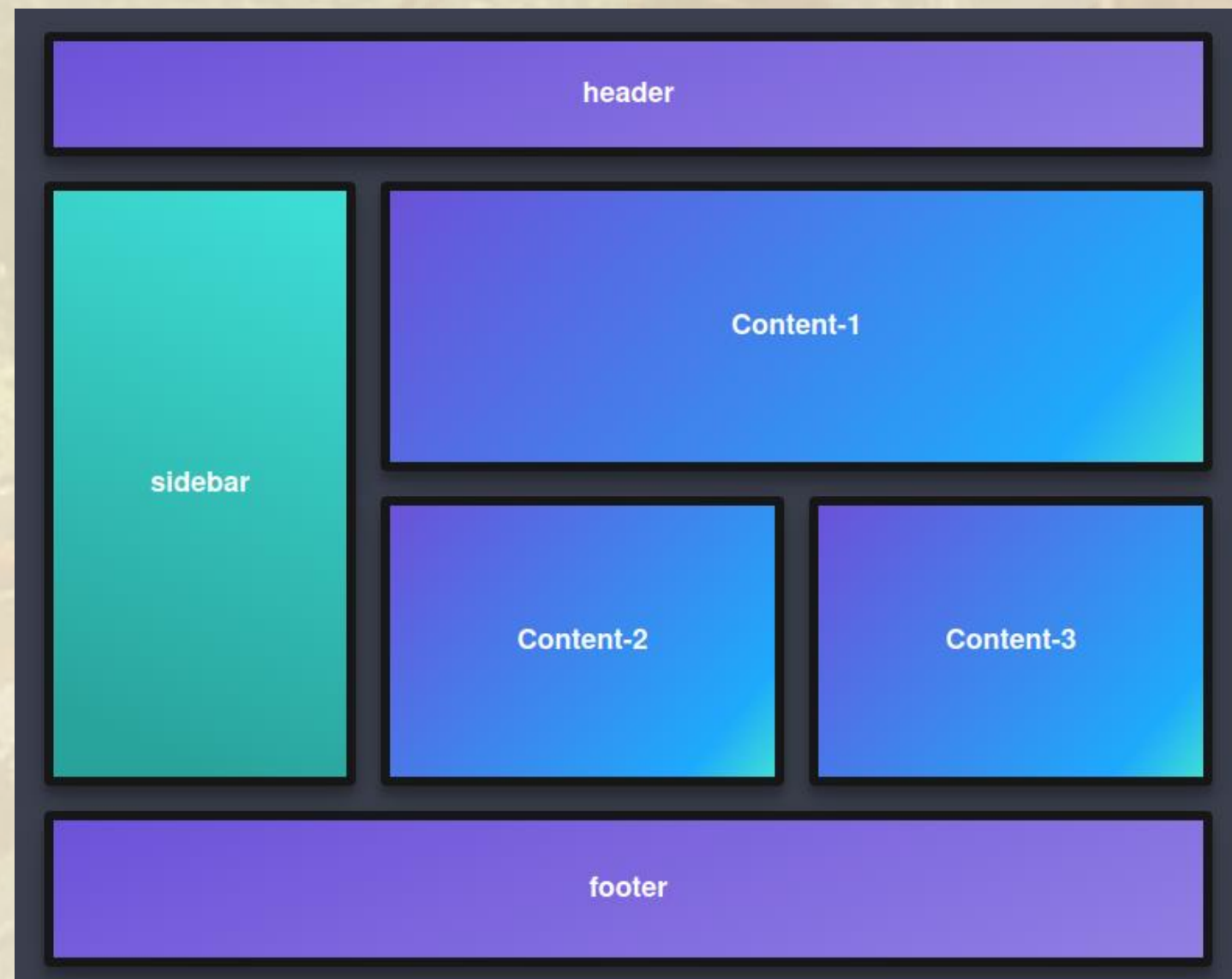**CSS**

TLE/ICT – 9
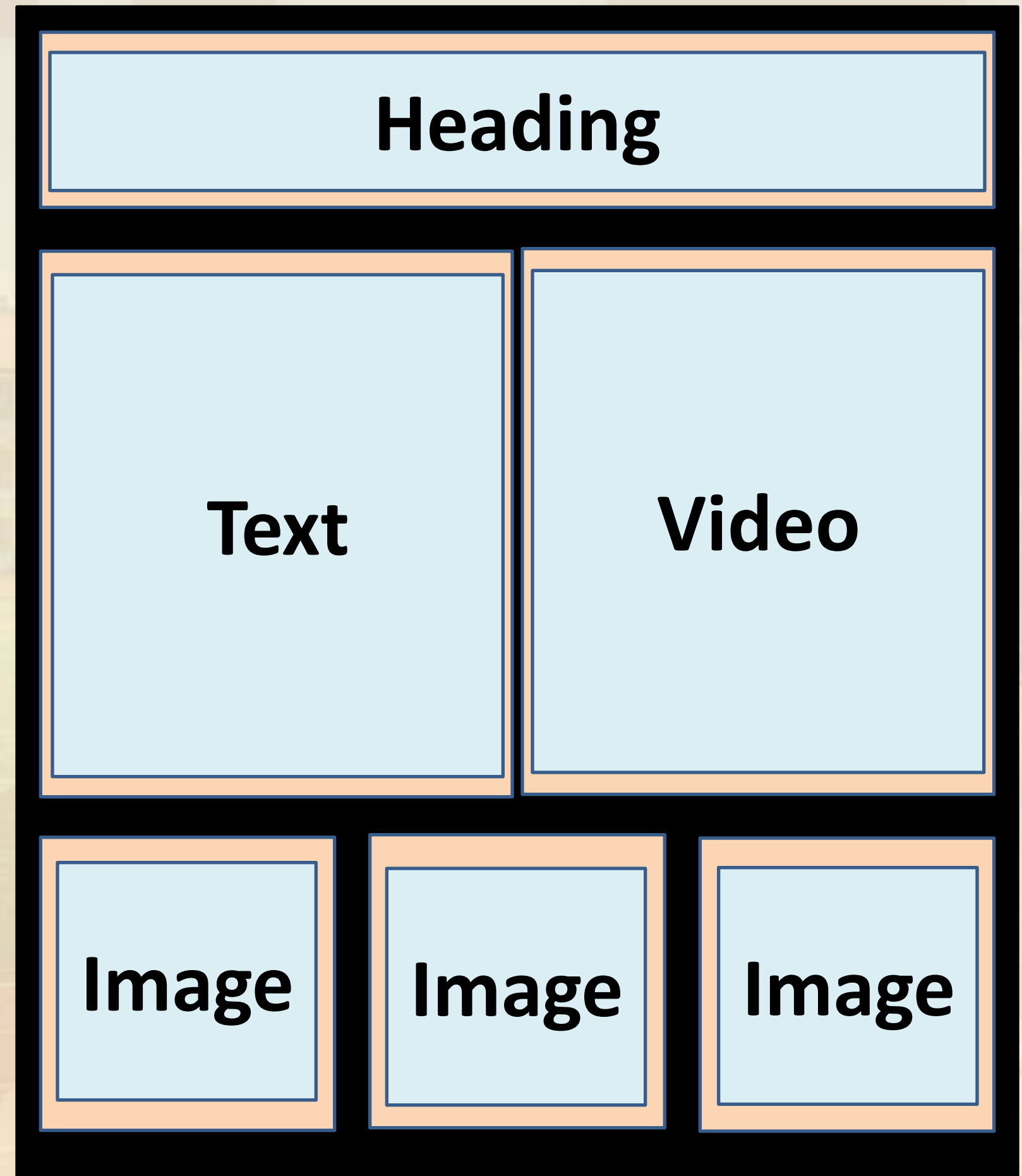**2nd Quarter**
Lesson 7

Formatting Layout with CSS

Box Model

- In order to understand layout using CSS, you have to use the box model where each element on a page exists on its own box wherein each box aligns with other boxes on the page.
- The box model consists of margins, borders, padding and the actual content.
- CSS allows you to control the dimension of the box using the *height* and *width* properties.

Box Model

- You can define the boxes for the content using the block-level tags.
- Some block-level tags are *<p>, <h1>, <table>,* and *other generic block-level tag <div>* which is placed around other tags to organize the content's layout.

Heading	
Text	Video

Image	Image	Image

Element Positioning

- Position property allows placing an object or element precisely on a page.
- There are four position schemes to use: static, relative, absolute and fixed.
- The position can also follow or inherit the specified position of the body.

Default position

Relative top:100px left:100px

Absolute top:100px left:100px

Fixed top:100px left:300px

CSS POSITION PROPERTY

Property	Value	Description
position:	static	The default or normal position of an object if one would not specify a position.
position:	relative	The position of the box relative to where the default or normal position of an object.
position:	absolute	The position is defined by the values where the position of the element would be from the specified reference point, ex. from the left, from the top
position:	fixed	The same as the absolute position, the only difference is that the object is "fixed" and will not move with the scroll action of the page.

Offset

- Allows you to set up the distance of the specified element from another element.
- Allows you to place the contents of your page in a precise position within the browser window.
- Works together with the position property.
- Before you can use the offset property, you have to set up the position property first.

CSS OFFSET PROPERTY

Property	Value	Description
top:	<value>	Sets how far the box's top content is offset from another element which may be the edge of the page.
right:	<value>	Sets how far the box's right content is offset from another element.
bottom:	<value>	Sets how far the box's bottom content is offset from another element.
left:	<value>	Sets how far the box's left content is offset from another element.

Using the position and offset property, one can actually create a table purely in CSS without using HTML table set up commands.

```
offset.css

File        Edit        View

div#left{width:270px;
        height:600px;
        position:absolute;
        top:120px;
        left:20px;}
div#right{width:400px;
        height:700px;
        position:absolute;
        top:125px;
        left:25px;}
```

Float

- Allow you to control where a specified block element will be located or placed on the page and where the other elements will be positioned in relation to the said block.
- When using the float property, it is important to set the width of the block for better control of the float.

CSS FLOAT PROPERTY

Property	Value	Description
float:	left	The specified block element "floats" to the left and all other elements near it will float away from the block.
float:	right	The specified block element "floats" to the right and all other elements near it will float away from the block.
float:	none	This option, specified block element will take the space it requires and nothing flows to the right or left of it. The other elements will be placed below it.

Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet.

float:right

float:left

Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet.

float:none

Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet. Email is the transmission of electronic messages over the internet

Wrapping Text around an Element

- Wrapping text around an element can be done using the float property in CSS

```
<!DOCTYPE html>
<html>
<head><title>FLOAT</title></head>
<style>
body{font-family:Arial;}
h2{color:#333399;}
div{padding:20px; margin:5px;}
img{height:200px; width:150px; margin:20px; float:left;}
</style>
<body>
<h2>Creative Design</h2>
<img src="creative.jpg">
<p><font size="4"><br><br>The book contains Adobe Photoshop, Illustrator, OnDesign and Acrobat.  The book aims to educate
the students in creating, designing and editing graphics using the different software that may work relatively.</font></p>
<br><br><br><br><br><br><br>
<h2>Office Productivity</h2>
<div>
<img src="office-productivity.jpg">
<p><font size="4"><br><br>The book contains MS Word 2010, MS Excel 2010, MS Powerpoint 2010 and MS Outlook 2010.
The book aims to educate the students in creating documents, worksheets, presentations and organization using different
software that may work relatively.</font.</p>
</body>
</html>
```

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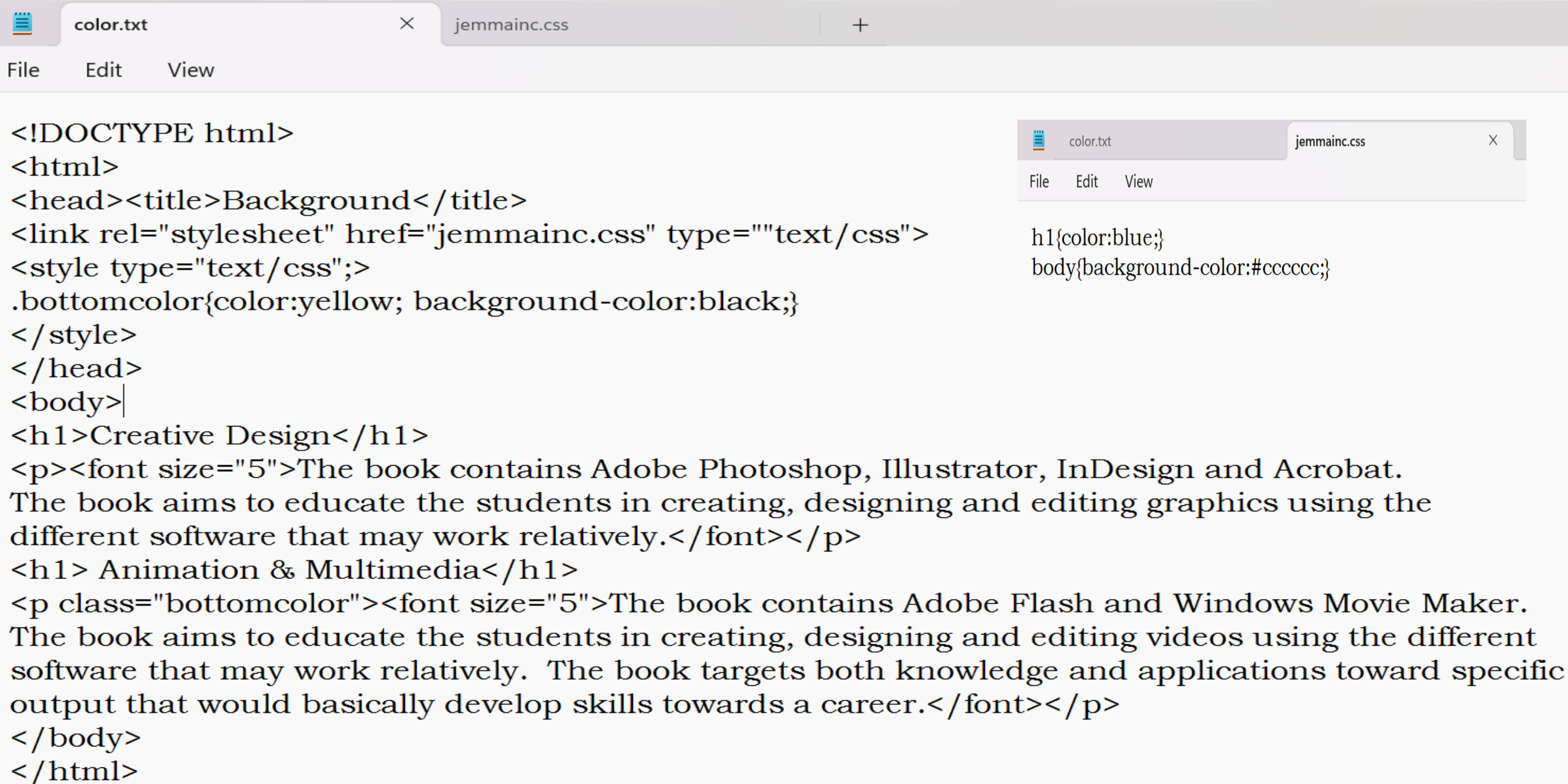
Background

- Background-repeat property – indicates if the background image is to be tiled all throughout (*repeat* value), repeated horizontally only (*repeat-x* value), repeated vertically only (*repeat-y* value) or will not be repeated nor tiled (*no-repeat* value)
- Background-position property – indicates where the background image will be placed. This only works when image is not tiled.

Background

- Background property is a shorthand notation for all the other properties (*background-color, background-image, background-repeat, background-attachment and background-position*). It can be used to style the background using only a single property.
- Values for the background property are separated by spaces and not by commas.

Adding background color using external and internal style sheets

color.txt   ✕   jemmainc.css   +

File   Edit   View

```html
<!DOCTYPE html>
<html>
<head><title>Background</title>
<link rel="stylesheet" href="jemmainc.css" type=""text/css">
<style type="text/css";>
.bottomcolor{color:yellow; background-color:black;}
</style>
</head>
<body>
<h1>Creative Design</h1>
<p><font size="5">The book contains Adobe Photoshop, Illustrator, InDesign and Acrobat.
The book aims to educate the students in creating, designing and editing graphics using the
different software that may work relatively.</font></p>
<h1> Animation & Multimedia</h1>
<p class="bottomcolor"><font size="5">The book contains Adobe Flash and Windows Movie Maker.
The book aims to educate the students in creating, designing and editing videos using the different
software that may work relatively.  The book targets both knowledge and applications toward specific
output that would basically develop skills towards a career.</font></p>
</body>
</html>
```

color.txt   jemmainc.css   ✕

File   Edit   View

```css
h1{color:blue;}
body{background-color:#cccccc;}
```

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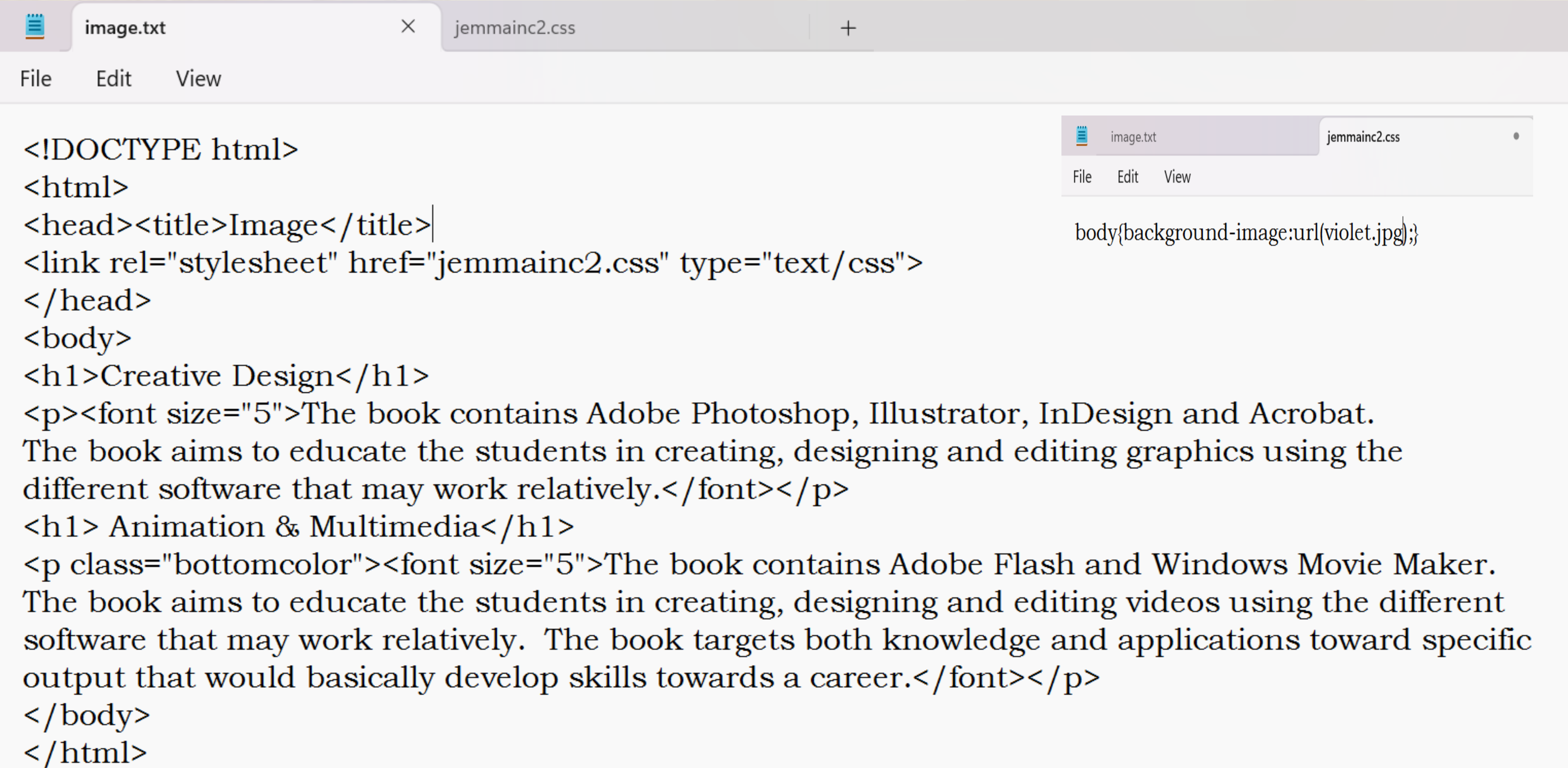
CSS BACKGROUND COLOR PROPERTY

Property	Description and Example
background-color:	Set color to a specific value. Ex. red
	Set color in hex-notation. Ex. #ff0000
	Set color in values from 0-255. Ex. RGB(255,0,0)
	Set color in percentages from 0% to 100%. Ex. RGB(100%,0%,0%)
	Inherit color from parent. Ex. inherit

- Background image property allows you to add a background image to the entire Web page or to a single element.

CSS BACKGROUND IMAGE PROPERTY	
Property	**Description and Value**
background-image:	Set the background to the image selected by the url. Value: url("location")
	No background. Value: none
	Background will be the same as the parent's. Value: inherit

Adding Background Image

```
<!DOCTYPE html>
<html>
<head><title>Image</title>
<link rel="stylesheet" href="jemmainc2.css" type="text/css">
</head>
<body>
<h1>Creative Design</h1>
<p><font size="5">The book contains Adobe Photoshop, Illustrator, InDesign and Acrobat.
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</body>
</html>
```

```
body{background-image:url(violet.jpg);}
```

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CSS BACKGROUND REPEAT PROPERTY

Property	Description and Value
background-repeat:	Repeats background (default) Value: repeat
	Repeats background horizontally. Value: repeat-x
	Repeats background vertically. Value: repeat-y
	Do not repeat background. Value: no-repeat
	Follow the parent's repeat setting. Value: inherit

Background Repeat

File   Edit   View

```html
<!DOCTYPE html>
<html>
<head><title>Image</title></head>
<style>
body{font-family:Arial; background-image:url(violet.jpg); background-repeat:repeat-y;}
h1{color:#333399; margin-left:100px;}
p{margin-left:100px;}
</style>
<body>
<h1>Creative Design</h1>
<p><font size="5">The book contains Adobe Photoshop, Illustrator, InDesign and Acrobat.
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<!DOCTYPE html>
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<style>
body{font-family:Arial; background-image:url(violet.jpg); background-repeat:repeat-x;}
h1{color:#333399; margin-left:100px;}
p{margin-left:100px;}
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```
<!DOCTYPE html>
<html>
<head><title>Image</title></head>
<style>
body{font-family:Arial; background-image:url(violet.jpg); background-repeat:no-repeat;}
h1{color:#333399; margin-left:100px;}
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CSS BACKGROUND POSITION PROPERTY

Property	Description and Value
background-position:	Position is specified by a value or percentage. Value: x y (100px, 50px or 20%, 10%)
	Keyword is used to set the position on the page. Value: top left, center, bottom, right, top right, bottom center, etc.

CSS BACKGROUND ATTACHMENT PROPERTY

Property	Description and Value
background-attachment:	Background scrolls with document (default setting) Value: scroll
	Follow parent's attachment. Value: inherit
	Background is steady and does not follow scroll action. Value: fixed

CSS MARGIN PROPERTY

Property	Value	Example
margin-top:		margin-top:10px
margin-bottom:	<value>	margin-bottom:10px
margin-left:		margin-left:5px
margin-right:		margin-right:5px
margin:	<top>, <right>, <bottom>, <left>	margin:15px

```html
<!DOCTYPE html>
<html>
<head><title>Image</title></head>
<style>
body{font-family:Arial; background-image:url(violet.jpg); background-position:center; background-repeat:no-repeat; background-attachment:scroll;}
h1{color:#333399; margin-left:100px;}
p{margin-left:100px;}
</style>
<body>
<h1>Creative Design</h1>
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Margins

- If you place only one value on the margin:<value>, that value will be applied to all sides of the specified element.

- If you do not specify a margin, the default value is zero or no margin.

- A negative margin value can also be used to get special effects on your web page. Example: p{margin-left:-5px}

Formatting Border and Table

- Create a border, set its color, width of table, frame or element.
- Create individual border sides by using border-left, border-right-width and border-top-style property

CSS BORDER PROPERTY

Property	Value
border-width:	thin
border-width:	medium
border-width:	thick (all sides)
border-width:	<value> ex. 10px
border-width:	<value> ex. 2em
border-top-width:<value>	sets the top border width
border-bottom-width:<value>	sets the bottom border width
border-right-width:<value>	sets the right border width
border-left-width:<value>	sets the left border width

CSS BORDER STYLE PROPERTY

Property	Value
border-style:	hidden
border-style:	dotted
border-style:	outset
border-style:	dashed
border-style:	inset
border-style:	none
border-style:	solid
border-style:	double
border-style:	groove
border-style:	ridged