

Q1/ What are the differences between the opacity property and alpha channel in rgba or hsla?

The opacity property and the alpha channel in RGBA (Red, Green, Blue, Alpha) or HSLA (Hue, Saturation, Lightness, Alpha) both control the transparency of an element, but they operate in different ways.

RGBA / rgba(red, green, blue, alpha). The value of the alpha parameter ranges from 0.0 (complete transparency) to 1.0. (without transparency). Such as rgba(255, 99, 71, 0.8);

HSLA / with alpha same as RGBA. Such as: hsla(0, 100%, 50%, 0.5)

Q2/What is the most effective method for setting CSS color properties?

The most common way to specify colors in CSS is to use their hexadecimal (or hex) values. Hex values are actually just a different way to represent RGB values. Instead of using three numbers between 0 and 255, you use six hexadecimal numbers. Hex numbers can be 0-9 and A-F.

Q3/ Create 3 divisions in a web page. • Make the first div has 3 paragraphs and each paragraph has a background with red color (Create a transition from darker red to a lighter). • Make the second div has an image background with horizontally repeated. • Add in the third div an image on the (right top) and make it fixed. • Add Box model on a text in the third div, that has Total element width equal 400Px

```
<!DOCTYPE html>
```

```
<html><head>
```

```
<style>
```

```
.first-div {
```

```
background: linear-gradient(to bottom, #ff0000, #ff9999);
```

```
padding: 20px;}
```

```
.first-div p {
```

```
background-color: rgba(247,60, 60,0.8);
```

```
margin-bottom: 10px; padding: 10px;color: white;}
```

```
.second-div {
```

```
background-image:
```

```
url('D:\photo\galaxy_night_starry_sky_118126_1280x720.jpg');
```

```
background-repeat: repeat-x;
```

```
padding: 20px;}
```

```
.third-div {
```

```
background: url('D:\photo\house_forest_tree_126440_1280x720.jpg')
```

```
no-repeat right top;
```

```
background-size: contain;
```

```
padding: 20px;
```

```
position: fixed;
```

```
top: 0;
```

```
right: 0;
```

```
width: 400px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="first-div">
```

```
<p>Paragraph 1</p>
```

```
<p>Paragraph 2</p>
```

```
<p>Paragraph 3</p>
```

```
</div>
```

```
<div class="second-div">
```

```
<!-- Add your content here -->
```

</div>

<div class="third-div">

<p>Some text with box model</p>

</div>

</body></html>