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Colors

Foreground (Text) Color

- The **color** property
- Property value of color can be given in the following formats:

- Color name

```
h1 {  
  color: DarkCyan;  
}
```

- RGB value

```
p {  
  color: rgb(100,100,90);  
}
```

- HEX code

```
h2 {  
  color: #ee3e80;  
}
```

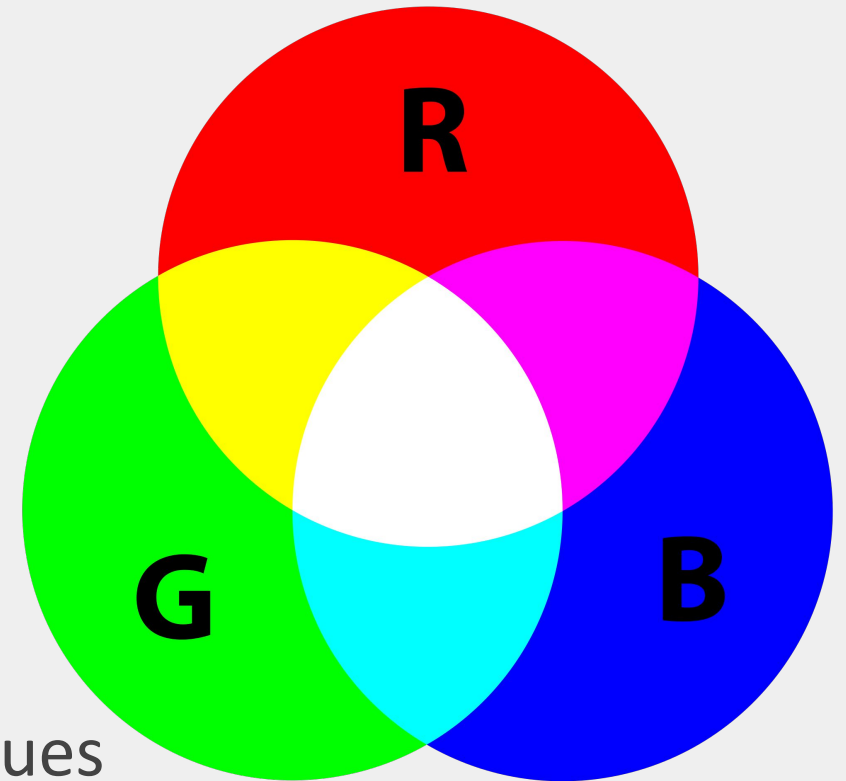
Marine Biology

The Composition of Seawater

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Understanding Colors

- Three base colors (red, green, blue)
- Each color is some mix of base colors
 - `rgb(255, 255, 0)` -> values from 0 to 255
 - `#FFFF00` -> values from 0 to F
- Color pickers can be used for getting these values
- Convert from one type to another using converters
 - <https://goo.gl/mTjNZv>



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Exercise

Background Color

- Used to define the background color of an element
- The **background-color** property
- The value should be in one of the following color formats

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```
body {  
  background-color: ■ rgb(200,200,200);  
  color: ■ white;  
}  
  
h1 {  
  background-color: ■ DarkCyan;  
}  
  
h2 {  
  background-color: ■ #ee3e80;  
}  
  
p {  
  background-color: ■ white;  
  color: ■ black;  
}
```

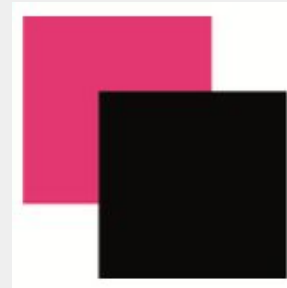
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Exercise

Opacity

- The **opacity** property is used for defining element's transparency
- Opacity value can be between **0** and **1**
 - 0 – totally transparent
 - 1 – no transparency

```
#black-square {  
  background:  #000000;  
  opacity: 1;  
}
```



```
#black-square {  
  background:  #000000;  
  opacity: 0.5;  
}
```



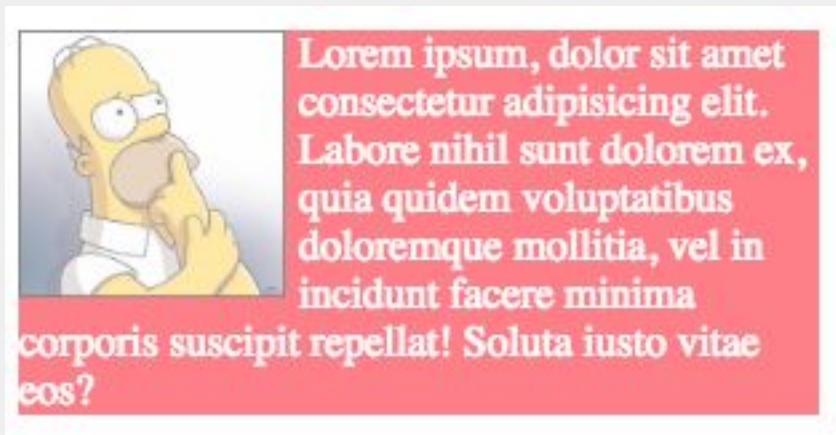
RGBA

- RGB color + Alpha channel (transparency)
- Transparency value can be between 0 and 1

```
#fancy-bg {  
  background: □ rgba(255, 0, 0, 0.5);  
}
```

RGBA VS Opacity

- Opacity applies transparency over an element
 - All nested elements will be transparent, too
- RGBA is just adding transparency to the color



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Exercise

Summary

- There are three ways to specify colors in CSS: RGB values, hex codes, and color names
- Color pickers can help you find the color you want
- CSS3 has introduced an extra value for RGB colors to indicate opacity. It is known as RGBA.
- It is important to ensure that there is enough contrast between any text and the background color

References

- Color converter - <https://goo.gl/mTjNZv>

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