

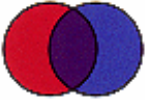
### Specifying Colors

- ❖ Computers use RGB 24-bit Color Specification  
**RGB = Red Green Blue**
  - ◆ Specify using 6 digit hexadecimal value in CS222  
#FF0000      #808080      #FFCCCC
  - ◆ Sometimes specified using three decimal values  
rgb(255,0,0)    rgb(128,128,128)    rgb(255,204,204)
  - ◆  $2^{24}$  = 16 million colors are available
- ❖ Some color names are available but limited
- ❖ Modifying default text and background color  
`<body style="color: #990000; background-color: #CCCCFF">`
  - ◆ *color* property defines the default text color for web page
  - ◆ *background-color* property defines the default background color for web page

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### Common RGB Color Values

|        |           |                    |
|--------|-----------|--------------------|
| White  | = #FFFFFF | = rgb(255,255,255) |
| Black  | = #000000 | = rgb(0,0,0)       |
| Red    | = #FF0000 | = rgb(255,0,0)     |
| Blue   | = #0000FF | = rgb(0,0,255)     |
| Green  | = #00FF00 | = rgb(0,255,0)     |
| Aqua   | = #00FFFF | = rgb(0,255,255)   |
| Yellow | = #FFFF00 | = rgb(255,255,0)   |
| Violet | = #FF00FF | = rgb(255,0,255)   |
| Gray   | = #808080 | = rgb(128,128,128) |
| Maroon | = #990000 | = rgb(153,0,0)     |
| Navy   | = #000066 | = rgb(0,0,102)     |

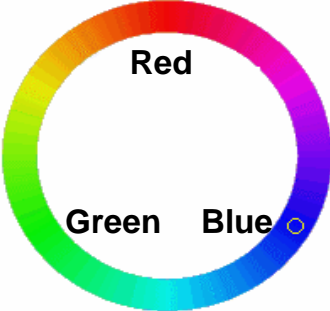


Red + Blue =  
Violet

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### More RGB Color Values


|          |           |
|----------|-----------|
| Maroon   | = #990000 |
| Navy     | = #000066 |
| Gray     | = #999999 |
| Silver   | = #CCCCCC |
| Teal     | = #009999 |
| Olive    | = #999900 |
| Dk. Ylw. | = #CCCC00 |
| Orange   | = #FF9900 |
| Pink     | = #FFCCCC |



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### The 8-Bit Color Cube

- ❖ Some computers are set to 8-bit (256) colors
- ❖ Select Colors using
  - ◆ Rule of 33 Hexadecimal or Rule of 51 Decimal
- ❖ Select values for each byte that are multiples of above numbers:
  - ◆ Decimal =     0    51   102 153 204 255
  - ◆ Hexadecimal = 00 33 66 99 CC FF



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