

Colors and Names in CSS

CSS Colors

- Last time: Basics of CSS
- This time: Colors
 - Names and numbers

CSS Syntax

```
h1 {  
    text-align: center;  
    color: blue;  
}
```

- Last time:
 - `<h1>` blue and centered
 - Other colors?

140 Color Names

BlueViolet



Gold



LightSteelBlue



FireBrick



- 140 Standard color names
 - Remember them all?
 - <http://www.w3.org/TR/2003/CR-css3-color-20030514/#svg-color>
 - What about other colors?

Millions of Colors?



Duke Blue

- Want more than 140 colors
- Average Human: Millions of Colors
- Example: 12 shades of blue

Millions of Colors

- How to handle millions of colors?
 - Names?
 - Limit selection?
 - Numbers?
 - Everything is a number
 - Red + Green + Blue, 0–255
 - Can specify 16 million colors

Color Numbers

BlueViolet

`rgb(138, 43, 226)`

Gold

`rgb(255, 215, 0)`

LightSteelBlue

`rgb(179, 196, 222)`

FireBrick

`rgb(178, 34, 34)`

- Can specify with `rgb` (red, green, blue)
 - Makes numerical value from R, G, & B

Color Numbers

BlueViolet

#8A2BE2

Gold

#FFD700

LightSteelBlue

#B0C4DE

FireBrick

#B22222

- Or entire number: # + 6 **hex** digits
 - Hexadecimal: base 16
 - Digits: 0–9, A (10)—F(15)

Color Numbers

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Gold	#FFD700
LightSteelBlue	#B0C4DE
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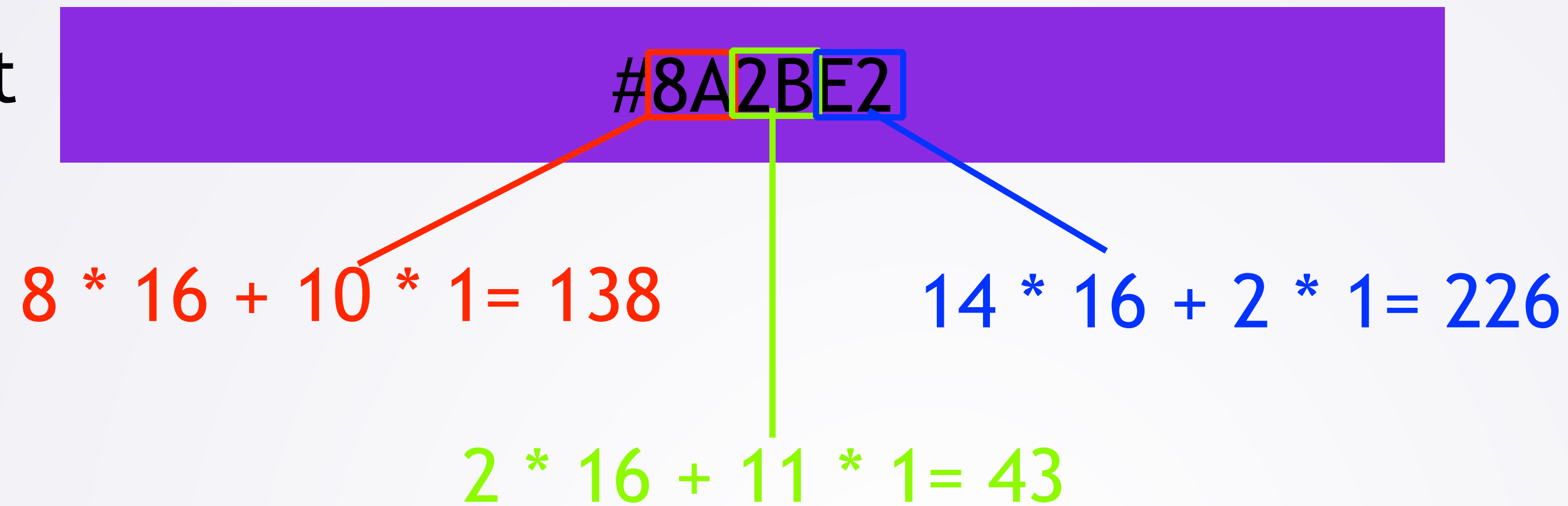
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Color Numbers

BlueViolet



- Hexadecimal values:
 - Each place is 16x previous
 - 1's, 16's, 256's, ... places

Color Picker Tools

- May use color picker tool
 - Let us see an example

CSS: Colors

- 140 Standard Names
- Specify by number
 - `rgb(red, green, blue)`
 - #hex value
 - Color picker:
 - https://developer.mozilla.org/en-US/docs/Web/CSS/Tools/ColorPicker_Tool