

# Converting Colors

XYZ(43.8181, 75.3762, 25.7551)

Have a look what the booklet for  
XYZ(43.8181, 75.3762, 25.7551)  
contains.

|  |    |
|--|----|
| <b>XYZ(43.8410, 75.3854, 25.8758)</b> .....    | 3  |
| <b><i>Conversions</i></b> .....                | 4  |
| <b><i>Details</i></b> .....                    | 6  |
| <b><i>Harmonies</i></b> .....                  | 12 |
| <b><i>Previews</i></b> .....                   | 24 |
| <b><i>Color Blindness Simulation</i></b> ..... | 28 |
| <b><i>CSS Examples</i></b> .....               | 31 |

# Color

**XYZ(43.8410, 75.3854,  
25.8758)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 66FF6A                       |
| RGB         | 102, 255, 106                |
| RGB Percent | 40%, 100%, 42%               |
| CMY         | 0.6000, 0.0000, 0.5843       |
| CMYK        | 0.60, 0.00, 0.58, 0.00       |
| HSL         | 122°, 100%, 70%              |
| HSV         | 122°, 60%, 100%              |
| XYZ         | 43.8410, 75.3854, 25.8758    |
| YIQ         | 192.2670, -43.3590, -78.7750 |

# Conversions

## Conversions Part 2

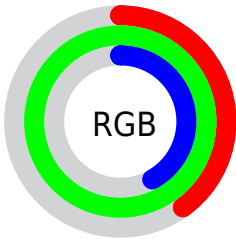
| Format                              | Color  |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">102, 251, 255</a>                |
| Decimal                             | <a href="#">6750058</a>                      |
| CIELab                              | <a href="#">89.57, -68.73, 58.14</a>         |
| CIElCh                              | <a href="#">90, 90.026, 139.773</a>          |
| Yxy                                 | <a href="#">75.3854, 0.3021, 0.5195</a>      |
| Android<br>(android.graphics.Color) | <a href="#">4284940138<br/>(0xFF66FF6A)</a>  |
| YUV                                 | <a href="#">192.2670, -42.5296, -79.1642</a> |
| Hunter-Lab                          | <a href="#">86.8248, -61.8122, 43.1075</a>   |

# Details

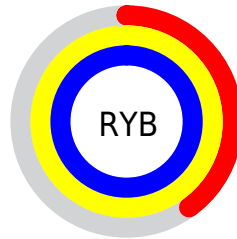
The XYZ color **43.8410, 75.3854, 25.8758** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **63.4035, 37.7277, 95.2044**, and the grayscale version is **50.5181, 53.1490, 57.8792**.

A 20% lighter version of the original color is **57.9189, 82.2002, 46.5318**, and **20.5670, 40.1757, 9.6883** is the 20% darker color. If you saturate the color by 10%, you get **40.2721, 73.6737, 19.9162**, and if you desaturate by 10%, it is **48.6729, 77.7048, 33.8480**.

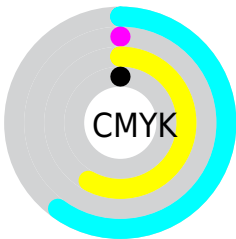
# Distribution



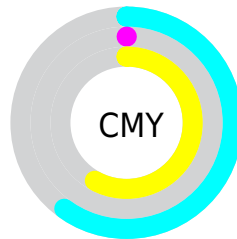
- Red (40%)
- Green (100%)
- Blue (42%)



- Red (40%)
- Yellow (98%)
- Blue (100%)



- Cyan (60%)
- Magenta (0%)
- Yellow (58%)
- Black (0%)




- Cyan (60%)
- Magenta (0%)
- Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 43.8410, 75.3854, 25.8758 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 43.8410, 75.3854, 25.8758 by changing the saturation by 10% instead.





 43.8410, 75.3854,  
25.8758

 43.8410, 75.3854,  
25.8758


352.9222,  
479.2412, 295.7579


 30.7429, 55.9287,  
16.5058


 80.2263, 126.8578,  
54.0561


 20.5540, 40.1457,  
9.7246


 104.2441,  
159.6422, 73.7036

 12.9090, 27.6522,  
5.1135


 132.6327,  
197.6380, 97.6139

 7.4425, 18.0636,  
2.2541

 165.7572,  
241.2295, 126.2057

 3.7891, 10.9957,  
0.7053

203.9830,  
290.8012, 159.8974

 1.5835, 6.0639,  
0.0000


247.6756,

 0.3816, 2.8840,


346.7375, 199.1077


0.0000


297.2002,  
409.4227, 244.2550


 0.0000, 1.0715,  
0.0000


 0.0000, 0.0000,  
0.0000


 43.8410, 75.3854,  
25.8758


 43.8410, 75.3854,  
25.8758


 40.2721, 73.6737,  
19.9162


 48.6729, 77.7048,  
33.8480


 37.8474, 72.5127,  
15.7865

 54.8698, 80.6815,  
43.9872

 36.4274, 71.8347,  
13.2771

 62.5247, 84.3601,  
56.4366

 35.7966, 71.5346,  
12.1125

 71.7220, 88.7815,  
71.3264

■ 35.7966, 71.5346,  
12.1125

■ 82.5396, 93.9831,  
88.7769

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



58.2070, 75.3854, 12.5391



43.8410, 75.3854, 25.8758



37.4208, 75.3854, 62.3009

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



43.8410, 75.3854, 25.8758



64.3631, 75.3854, 269.7382



119.5825, 75.3854, 47.3906

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



43.8410, 75.3854, 25.8758



63.4035, 37.7277, 95.2044

# Split Complementary

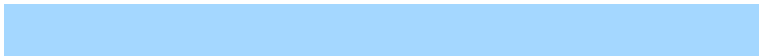
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



122.1780, 75.3854, 105.6608



43.8410, 75.3854, 25.8758



87.0217, 75.3854, 258.3094

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



43.8410, 75.3854, 25.8758



47.5471, 75.3854, 214.5988



109.2703, 75.3854, 188.5350



102.7739, 75.3854, 19.7894



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



43.8410, 75.3854, 25.8758



37.3828, 75.3854, 104.5384



109.2703, 75.3854, 188.5350



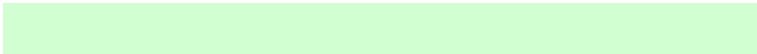
122.2616, 75.3854, 63.0963

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



43.8413, 75.3855, 25.8770



73.7532, 89.7581, 74.6074



78.4664, 93.2589, 26.4357



15.1582, 18.9100, 14.9544



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



43.8413, 75.3855, 25.8770



39.6996, 73.3994, 18.9499



49.5852, 77.6831, 56.1241



17.7908, 20.1759, 19.2015



18.7128, 37.3817, 6.3728



1.8285, 3.6423, 0.6546



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



63.4035, 37.7277, 95.2044



60.8048, 32.7319, 93.7167



53.8230, 33.8955, 44.7543



18.7709, 18.2917, 22.6769



30.4379, 14.6644, 47.8177

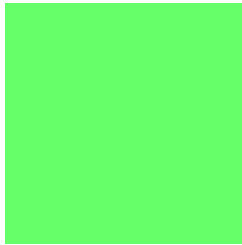


2.9699, 1.4303, 4.6888



# Previews

## White Background



This preview shows how the XYZ color 43.8410, 75.3854, 25.8758 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 43.8410, 75.3854, 25.8758 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

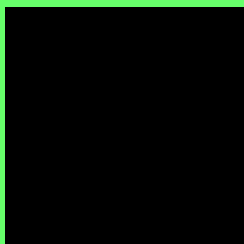
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 43.8410, 75.3854, 25.8758**

## **Background**



This preview shows how black text looks on a background with the XYZ color 43.8410, 75.3854, 25.8758.



This preview shows how white text looks on a background with the XYZ color 43.8410, 75.3854,

25.8758.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

43.8410, 75.3854, 25.8758

### Protanopia

67.4784, 74.1123, 21.8149

### Deuteranopia

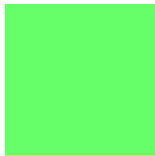
73.3086, 73.7880, 48.4089



## Tritanopia

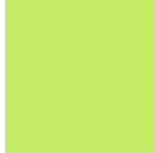
61.3870, 74.9484, 105.8388

# Trichromacy



## Original Color

43.8410, 75.3854, 25.8758



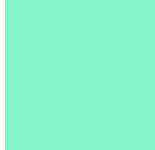
## Protanomaly

54.5143, 71.9389, 23.0690



## Deuteranomaly

57.3956, 71.4005, 38.3604



## Tritanomaly

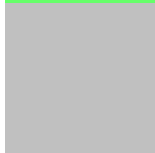
52.5662, 73.9050, 66.7529

# Monochromacy



## Original Color

43.8410, 75.3854, 25.8758



## Achromatopsia

50.1023, 52.7115, 57.4028



## Achromatomaly

45.0315, 58.5450, 42.6451

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 43.8410, 75.3854, 25.8758 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(102, 255, 106)` looks like.

```
.text, #text, p{  
    color:rgb(102, 255, 106)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(102, 255, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 255, 106) }
```

## Border

The CSS property to change the border of an element to XYZ 43.8410, 75.3854, 25.8758 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(102, 255, 106) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(102, 255, 106) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(102, 255, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 255, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 255, 106);  
box-shadow:4px 4px 4px 4px rgb(102, 255,  
106) }
```

# Background

The CSS property to change the background color of an element to XYZ 43.8410, 75.3854, 25.8758 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 255, 106) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(102,  
255, 106) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor