

# Converting Colors

XYZ(44.4525, 57.9984,  
103.4597)

Have a look what the booklet for  
XYZ(44.4525, 57.9984, 103.4597)  
contains.

<b>XYZ(44.4866, 58.0666, 103.4710)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(44.4866, 58.0666,  
103.4710)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33DAFF
RGB	51, 218, 255
RGB Percent	20%, 85%, 100%
CMY	0.7999, 0.1451, 0.0000
CMYK	0.80, 0.15, 0.00, 0.00
HSL	191°, 100%, 60%
HSV	191°, 80%, 100%
XYZ	44.4866, 58.0666, 103.4710
YIQ	172.2850, -111.4090, -23.8970

# Conversions

## Conversions Part 2

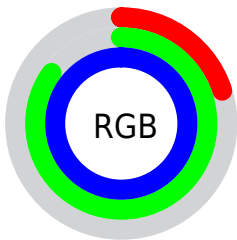
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 143, 255
Decimal	3398399
CIELab	80.78, -28.93, -29.78
CIELCh	81, 41.513, 225.828
Yxy	58.0666, 0.2159, 0.2818
Android (android.graphics.Color)	4281588479 (0xFF33DAFF)
YUV	172.2850, 40.7785, -106.3669
Hunter-Lab	76.2014, -29.1438, -27.1666

# Details

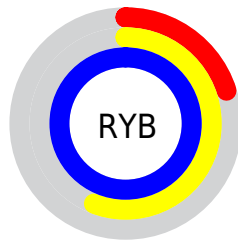
The XYZ color **44.4866, 58.0666, 103.4710** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **45.3289, 28.4811, 6.2423**, and the grayscale version is **39.2006, 41.2421, 44.9126**.

A 20% lighter version of the original color is **63.1701, 83.5653, 107.4080**, and **23.2902, 30.2716, 58.0416** is the 20% darker color. If you saturate the color by 10%, you get **42.3532, 55.2121, 103.0325**, and if you desaturate by 10%, it is **47.3602, 61.3546, 103.9542**.

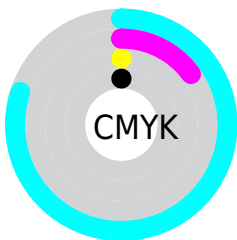
# Distribution



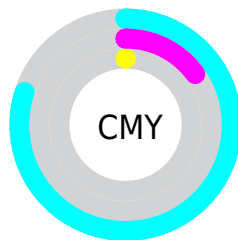
- Red (20%)
- Green (85%)
- Blue (100%)



- Red (20%)
- Yellow (56%)
- Blue (100%)



- Cyan (80%)
- Magenta (15%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (15%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.4866, 58.0666, 103.4710 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 44.4866, 58.0666, 103.4710 by changing the saturation by 10% instead.



44.4866, 58.0666,  
103.4710

44.4866, 58.0666,  
103.4710

355.5091,  
417.4341, 592.6061

31.2528, 41.8622,  
78.5695

81.1913, 102.0198,  
168.0123

20.9442, 28.9934,  
58.0227

105.3929,  
130.5375, 208.4893

13.1954, 19.0758,  
41.4121

133.9811,  
163.9283, 254.9950

7.6412, 11.7251,  
28.3191

167.3213,  
202.5767, 307.9482

3.9161, 6.5568,  
18.3252

205.7788,  
246.8671, 367.7674

1.6548, 3.1865,  
11.0119

249.7191,

0.4277, 1.2299,

297.1838, 434.8711

5.9605

299.5073,  
353.9114, 509.6778

■ 0.0000, 0.0859,  
2.7527

■ 0.0000, 0.0000,  
0.9698

■ 44.4866, 58.0666,  
103.4710

■ 44.4866, 58.0666,  
103.4710

■ 42.3532, 55.2121,  
103.0325

■ 47.3602, 61.3546,  
103.9542

■ 40.7901, 52.6999,  
102.6300

■ 51.0699, 65.1225,  
104.4860

■ 40.7891, 52.6982,  
102.6297

■ 55.7020, 69.4165,  
105.0707

■ 61.3307, 74.2751,  
105.7118

■ 68.0224, 79.7328,  
106.4126

■ 75.8375, 85.8214,  
107.1759

■ 84.8318, 92.5698,  
108.0044

■ 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.



40.8072, 58.0666, 76.9888



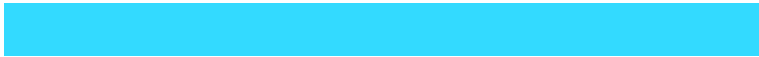
44.4866, 58.0666, 103.4710



51.2538, 58.0666, 120.9030

# Triad

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



44.4866, 58.0666, 103.4710



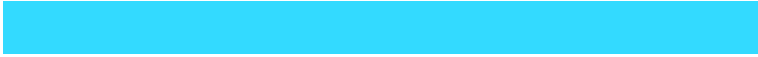
72.7576, 58.0666, 75.4967



50.8173, 58.0666, 27.8239

# Complementary

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



44.4866, 58.0666, 103.4710



45.3289, 28.4811, 6.2423

# 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.



59.3240, 58.0666, 27.6202



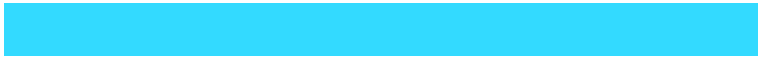
44.4866, 58.0666, 103.4710



72.6096, 58.0666, 51.2073

# Square

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



44.4866, 58.0666, 103.4710



67.8727, 58.0666, 102.1378



67.4870, 58.0666, 35.0583



44.1957, 58.0666, 35.7130



# Rectangle

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



44.4866, 58.0666, 103.4710



56.8806, 58.0666, 122.7493



67.4870, 58.0666, 35.0583



53.5343, 58.0666, 26.9394

# Sweetspot

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



44.4883, 58.0686, 103.4713



72.5674, 83.3040, 106.8623



38.7664, 72.8804, 20.6216



14.9435, 17.3701, 22.8151



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

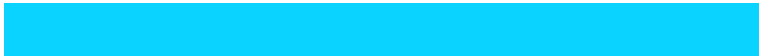


# Same Dimension

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



44.4883, 58.0686, 103.4713



41.3726, 53.6757, 102.7876



26.0144, 21.1208, 97.3133



18.2582, 19.8880, 23.1264



21.4145, 27.7387, 53.6600



2.1547, 2.8401, 5.2479



# Inverse Universe

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



55.0799, 28.6913, 68.9666



53.0584, 26.1645, 63.6189



59.6095, 57.0423, 11.0025



18.6430, 18.2405, 22.0031



27.5973, 13.5282, 32.8593

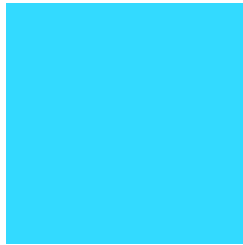


2.7222, 1.3313, 3.3845



# Previews

## White Background



This preview shows how the XYZ color 44.4866, 58.0666, 103.4710 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

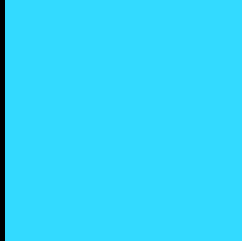
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 44.4866, 58.0666, 103.4710 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 44.4866, 58.0666, 103.4710

## Background



This preview shows how black text looks on a background with the XYZ color 44.4866, 58.0666, 103.4710.



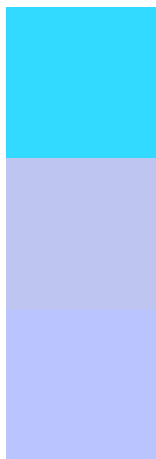
This preview shows how white text looks on a background with the XYZ color 44.4866, 58.0666,



# 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

44.4866, 58.0666, 103.4710

### Protanopia

56.6807, 57.0426, 90.4610

### Deuteranopia

58.0396, 57.1390, 102.5776



## Tritanopia

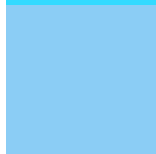
41.9719, 58.2209, 90.6870

# Trichromacy



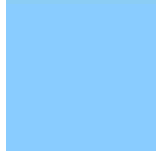
## Original Color

44.4866, 58.0666, 103.4710



## Protanomaly

48.9602, 55.7442, 94.5654



## Deuteranomaly

49.9594, 55.7241, 102.7304



## Tritanomaly

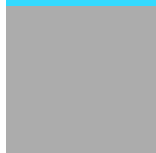
42.8740, 58.1910, 95.3585

# Monochromacy



## Original Color

44.4866, 58.0666, 103.4710



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

37.7604, 45.2487, 62.6208

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.4866, 58.0666, 103.4710 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(51, 218, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 218, 255)  
}
```

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(51, 218, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 218, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 44.4866, 58.0666, 103.4710 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(51, 218, 255) }
```



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

```
.border{ border-color:rgb(51, 218, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 218, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 218, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 218, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 218,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.4866, 58.0666, 103.4710 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 218, 255) }
```

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

```
.background{ background-color: rgb(51, 218,  
255) }
```

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](#).

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