

# Converting Colors

XYZ(48.9087, 58.5638, 93.8025)

Have a look what the booklet for  
XYZ(48.9087, 58.5638, 93.8025)  
contains.

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# Color

**XYZ(48.8740, 58.6488,  
93.5384)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80D5F3
RGB	128, 213, 243
RGB Percent	50%, 84%, 95%
CMY	0.4980, 0.1647, 0.0471
CMYK	0.47, 0.12, 0.00, 0.05
HSL	196°, 83%, 73%
HSV	196°, 47%, 95%
XYZ	48.8740, 58.6488, 93.5384
YIQ	191.0050, -60.2900, -8.6900

# Conversions

## Conversions Part 2

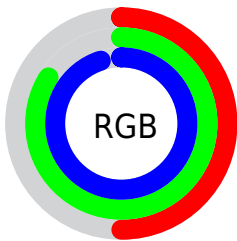
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	128, 177, 243
Decimal	8443379
CIE Lab	81.10, -17.95, -22.71
CIE LCh	81, 28.952, 231.679
Yxy	58.6488, 0.2431, 0.2917
Android (android.graphics.Color)	4286633459 (0xFF80D5F3)
YUV	191.0050, 25.6335, -55.2554
Hunter-Lab	76.5825, -20.1029, -18.8095

# Details

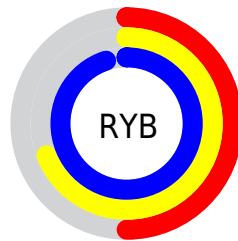
The XYZ color **48.8740, 58.6488, 93.5384** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **53.0865, 45.0682, 26.3249**, and the grayscale version is **49.4070, 51.9800, 56.6062**.

A 20% lighter version of the original color is **74.0597, 89.1791, 107.9177**, and **23.5804, 29.2705, 51.4207** is the 20% darker color. If you saturate the color by 10%, you get **44.0843, 53.8599, 92.8676**, and if you desaturate by 10%, it is **54.6049, 64.0179, 94.2738**.

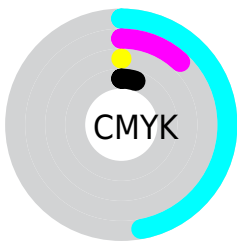
# Distribution



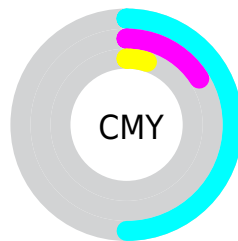
- Red (50%)
- Green (84%)
- Blue (95%)



- Red (50%)
- Yellow (69%)
- Blue (95%)



- Cyan (47%)
- Magenta (12%)
- Yellow (0%)
- Black (5%)




- Cyan (50%)
- Magenta (16%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8740, 58.6488, 93.5384 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 48.8740, 58.6488, 93.5384 by changing the saturation by 10% instead.





 48.8740, 58.6488,  
93.5384


 48.8740, 58.6488,  
93.5384

372.7713,  
419.5992, 560.3395


 34.7337, 42.3305,  
70.3289


 87.7061, 102.8671,  
154.2219

 23.6233, 29.3601,  
51.3163


 113.1286,  
131.5358, 192.5331

 15.1777, 19.3534,  
36.0819


 143.0426,  
165.0901, 236.7152

 9.0313, 11.9259,  
24.2073

177.8133,  
203.9144, 287.1869

 4.8189, 6.6933,  
15.2738

217.8062,  
248.3930, 344.3666

 2.1750, 3.2710,  
8.8630

263.3866,

 0.7295, 1.2748,

298.9104, 408.6729

4.5564

314.9198,  
355.8510, 480.5244

■ 0.0000, 0.1216,  
1.9353

■ 0.0000, 0.0000,  
0.5150

■ 48.8740, 58.6488,  
93.5384

■ 48.8740, 58.6488,  
93.5384

■ 44.0843, 53.8599,  
92.8676

■ 54.6049, 64.0179,  
94.2738

■ 40.1659, 49.6104,  
92.2538

■ 61.3293, 69.9915,  
95.0724

■ 37.0480, 45.8641,  
91.6951

■ 69.1022, 76.6002,  
95.9383

■ 34.6452, 42.5757,  
91.1870

■ 77.9725, 83.8702,  
96.8740

■ 32.8461, 39.6867,  
90.7242

■ 87.9864, 91.8262,  
97.8819

■ 32.4210, 38.9574,  
90.6058

■ 91.9266, 96.7486,  
98.6243

■ 93.1779, 99.2511,  
99.0414

# Harmonies

## Analogous

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



45.6699, 58.6488, 76.8964



48.8740, 58.6488, 93.5384



54.0865, 58.6488, 102.5712

# Triad

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



48.8740, 58.6488, 93.5384



67.9921, 58.6488, 68.7741



51.5786, 58.6488, 37.7535

# Complementary

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



48.8740, 58.6488, 93.5384



53.0865, 45.0682, 26.3249

# 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.



57.4348, 58.6488, 36.3657



48.8740, 58.6488, 93.5384



67.2001, 58.6488, 52.3846

# Square

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



48.8740, 58.6488, 93.5384



65.3216, 58.6488, 86.6838



63.2292, 58.6488, 41.2325



47.1514, 58.6488, 45.4393



# Rectangle

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



48.8740, 58.6488, 93.5384



58.1188, 58.6488, 102.1094



63.2292, 58.6488, 41.2325



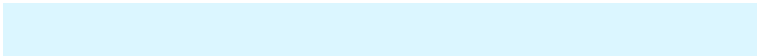
53.4347, 58.6488, 36.5978

# Sweetspot

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



48.8759, 58.6510, 93.5398



80.2145, 88.0481, 107.3750



47.0187, 71.1175, 43.0372



16.7271, 18.4801, 22.9353



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.



48.8759, 58.6510, 93.5398



49.2715, 60.1817, 103.6271



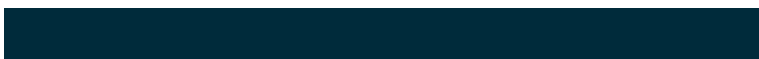
37.0961, 35.0916, 89.6132



16.6095, 17.9833, 21.1383



17.9088, 21.6114, 49.7656



1.6570, 2.0655, 4.4016



# Inverse Universe

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



56.6931, 39.2989, 67.5506



59.3136, 37.3506, 69.7863



64.9697, 68.8345, 30.2859



17.0182, 16.6901, 19.8426



24.8441, 12.2811, 24.9509

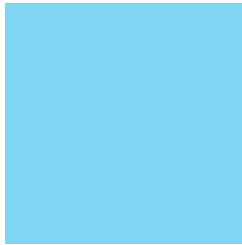


2.2255, 1.0962, 2.4137



# Previews

## White Background



This preview shows how the XYZ color 48.8740, 58.6488, 93.5384 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

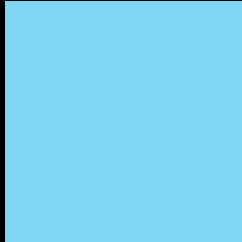
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8740, 58.6488, 93.5384 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

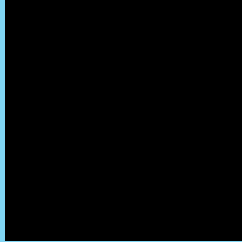
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.8740, 58.6488, 93.5384**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8740, 58.6488, 93.5384.



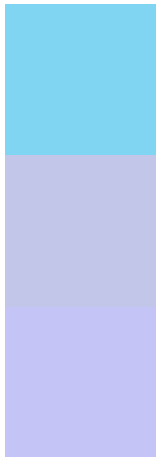
This preview shows how white text looks on a background with the XYZ color 48.8740, 58.6488,



# 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

48.8740, 58.6488, 93.5384

### Protanopia

57.3795, 58.1994, 85.3002

### Deuteranopia

59.5544, 58.0656, 96.0646



## Tritanopia

47.3234, 58.7870, 85.1968

# Trichromacy



## Original Color

48.8740, 58.6488, 93.5384

## Protanomaly

53.4565, 57.8462, 88.4687

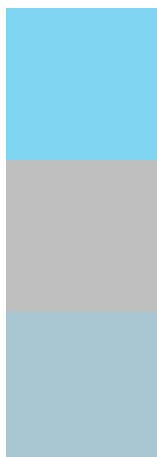
## Deuteranomaly

54.7683, 57.6655, 95.4327

## Tritanomaly

47.7911, 58.5849, 88.1460

# Monochromacy



## Original Color

48.8740, 58.6488, 93.5384

## Achromatopsia

49.5206, 52.0996, 56.7364

## Achromatomaly

48.2047, 53.8248, 68.8213

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8740, 58.6488, 93.5384 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(128, 213, 243)` looks like.

```
.text, #text, p{  
    color:rgb(128, 213, 243)  
}
```

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(128, 213, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 213, 243) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8740, 58.6488, 93.5384 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(128, 213, 243) }
```



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

```
.border{ border-color:rgb(128, 213, 243) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 213, 243)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 213, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 213, 243);  
box-shadow:4px 4px 4px 4px rgb(128, 213,  
243) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8740, 58.6488, 93.5384 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 213, 243) }
```

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

```
.background{ background-color: rgb(128,  
213, 243) }
```

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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