

# Converting Colors

XYZ(49.6373, 68.8432, 90.9069)

Have a look what the booklet for  
XYZ(49.6373, 68.8432, 90.9069)  
contains.

<b>XYZ(49.5948, 68.7575, 90.7784)</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(49.5948, 68.7575,  
90.7784)**

# Conversions

## Conversions Part 1

Format	Color
Hex	58EDED
RGB	88, 237, 237
RGB Percent	35%, 93%, 93%
CMY	0.6549, 0.0706, 0.0706
CMYK	0.63, 0.00, 0.00, 0.07
HSL	180°, 81%, 64%
HSV	180°, 63%, 93%
XYZ	49.5948, 68.7575, 90.7784
YIQ	192.4490, -88.8040, -31.5880

# Conversions

## Conversions Part 2

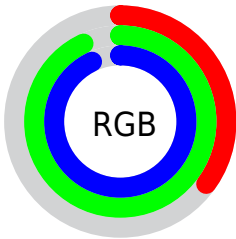
Format	Color
<a href="#">RYB</a>	<a href="#">88, 163, 237</a>
Decimal	<a href="#">5828077</a>
CIELab	<a href="#">86.38, -38.78, -11.71</a>
CIELCh	<a href="#">86, 40.506, 196.808</a>
Yxy	<a href="#">68.7575, 0.2371, 0.3288</a>
Android (android.graphics.Color)	<a href="#">4284018157</a> ( <a href="#">0xFF58EDED</a> )
YUV	<a href="#">192.4490, 21.9636, -91.6018</a>
Hunter-Lab	<a href="#">82.9201, -38.3488, -6.8648</a>

# Details

The XYZ color **49.5948, 68.7575, 90.7784** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light muted cyan. A complement of this color would be **40.1786, 25.6908, 12.0760**, and the grayscale version is **50.2805, 52.8990, 57.6070**.

A 20% lighter version of the original color is **67.1364, 85.6100, 107.5937**, and **24.8644, 36.3839, 49.4284** is the 20% darker color. If you saturate the color by 10%, you get **47.7060, 67.7853, 90.6913**, and if you desaturate by 10%, it is **52.2167, 70.1107, 90.9029**.

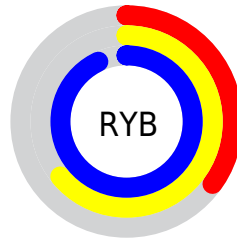
# Distribution



Red (35%)

Green (93%)

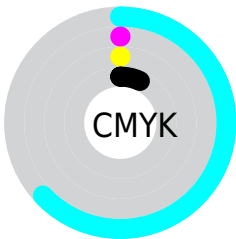
Blue (93%)



Red (35%)

Yellow (64%)

Blue (93%)

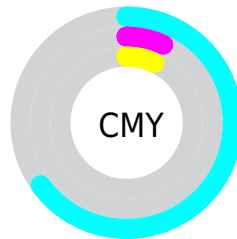


Cyan (63%)

Magenta (0%)

Yellow (0%)

Black (7%)



Cyan (65%)

Magenta (7%)


Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.5948, 68.7575, 90.7784 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 49.5948, 68.7575, 90.7784 by changing the saturation by 10% instead.





 49.5948, 68.7575,  
90.7784


 49.5948, 68.7575,  
90.7784


375.5575,  
456.1752, 551.1950


 35.3080, 50.5142,  
68.0491


 88.7696, 117.4351,  
150.3641


 24.0679, 35.8222,  
49.4707


 114.3884,  
148.6383, 188.0576

 15.5090, 24.2969,  
34.6248


 144.5152,  
184.9303, 231.5762

 9.2660, 15.5540,  
23.0928

 179.5155,  
226.6954, 281.3384

 4.9736, 9.2091,  
14.4561

219.7544,  
274.3180, 337.7629

 2.2664, 4.8778,  
8.2962

265.5975,

 0.7774, 2.1758,

328.1826, 401.2681

4.1946

317.4101,  
388.6736, 472.2727

■ 0.0000, 0.7067,  
1.7327

■ 0.0000, 0.0000,  
0.3830

■ 49.5948, 68.7575,  
90.7784

■ 49.5948, 68.7575,  
90.7784

■ 47.7060, 67.7853,  
90.6913

■ 52.2167, 70.1107,  
90.9029

■ 46.4703, 67.1483,  
90.6333

■ 55.6293, 71.8699,  
91.0628

■ 45.8009, 66.8032,  
90.6017

■ 59.8915, 74.0672,  
91.2625

■ 45.5714, 66.6849,  
90.5908

■ 65.0550, 76.7291,  
91.5044

71.1674, 79.8801,  
91.7907

78.2727, 83.5430,  
92.1234

86.4125, 87.7392,  
92.5046

86.8119, 87.9451,  
92.5235

86.8119, 87.9451,  
92.5238

# Harmonies

## Analogous

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



49.3507, 68.7575, 63.7088



49.5948, 68.7575, 90.7784



53.7928, 68.7575, 119.0751

# Triad

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



49.5948, 68.7575, 90.7784



79.3690, 68.7575, 115.9696



69.5454, 68.7575, 35.0636

# Complementary

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



49.5948, 68.7575, 90.7784



40.1786, 25.6908, 12.0760

# 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.



78.4587, 68.7575, 43.2270



49.5948, 68.7575, 90.7784



84.4845, 68.7575, 87.2536

# Square

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



49.5948, 68.7575, 90.7784



70.6948, 68.7575, 135.8309



84.1363, 68.7575, 60.9297



60.2853, 68.7575, 35.5737



# Rectangle

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



49.5948, 68.7575, 90.7784



58.5182, 68.7575, 132.9315



84.1363, 68.7575, 60.9297



72.6980, 68.7575, 36.7825

# Sweetspot

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



49.5969, 68.7601, 90.7800



79.4165, 91.9406, 108.1678



36.3115, 63.4736, 19.5723



16.5734, 19.4600, 23.1325



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.



49.5969, 68.7601, 90.7800



55.9077, 79.8215, 107.0661



32.7652, 35.0962, 85.1708



15.5177, 17.1219, 19.4092



24.8794, 36.4062, 49.4575



1.9536, 2.8588, 3.8836



# Inverse Universe

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



40.1786, 25.6908, 12.0760



43.9777, 25.2660, 7.3726



49.2629, 43.8594, 15.1037



15.0655, 15.0541, 15.6304



19.0678, 9.8298, 0.8924

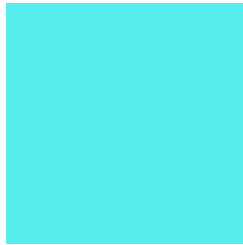


1.4973, 0.7719, 0.0701



# Previews

## White Background



This preview shows how the XYZ color 49.5948, 68.7575, 90.7784 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

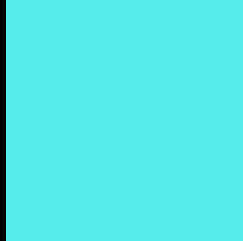
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.5948, 68.7575, 90.7784 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

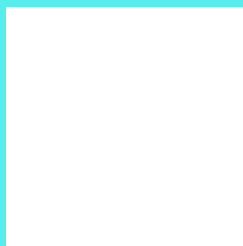
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 49.5948, 68.7575, 90.7784

## Background



This preview shows how black text looks on a background with the XYZ color 49.5948, 68.7575, 90.7784.



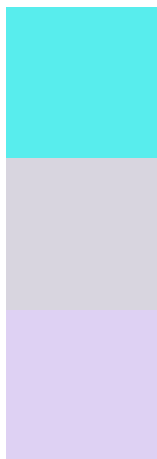
This preview shows how white text looks on a background with the XYZ color 49.5948, 68.7575,



# 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

49.5948, 68.7575, 90.7784

### Protanopia

65.4324, 67.5151, 79.3951

### Deuteranopia

69.1023, 67.6016, 94.2003



## Tritanopia

51.9763, 68.4243, 103.3963

# Trichromacy



## Original Color

49.5948, 68.7575, 90.7784



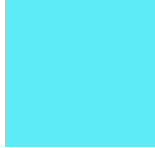
## Protanomaly

56.4871, 66.2790, 83.2147



## Deuteranomaly

58.4423, 65.8981, 92.8585



## Tritanomaly

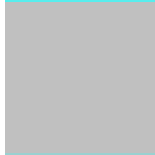
51.0110, 68.4592, 98.5211

# Monochromacy



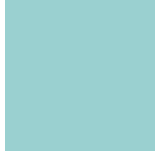
## Original Color

49.5948, 68.7575, 90.7784



## Achromatopsia

50.1023, 52.7115, 57.4028



## Achromatomaly

47.2675, 56.5358, 68.0958

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.5948, 68.7575, 90.7784 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(88, 237, 237)` looks like.

```
.text, #text, p{  
    color:rgb(88, 237, 237)  
}
```

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(88, 237, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 237, 237) }
```

## Border

The CSS property to change the border of an element to XYZ 49.5948, 68.7575, 90.7784 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(88, 237, 237) }
```



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

```
.border{ border-color:rgb(88, 237, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 237, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 237, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 237, 237);  
box-shadow:4px 4px 4px 4px rgb(88, 237,  
237) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.5948, 68.7575, 90.7784 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 237, 237) }
```

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

```
.background{ background-color: rgb(88, 237,  
237) }
```

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