

# Converting Colors

XYZ(49.7869, 63.9283, 77.0232)

Have a look what the booklet for  
XYZ(49.7869, 63.9283, 77.0232)  
contains.

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# Color

**XYZ(49.5952, 63.6600,  
76.6915)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88E0DB
RGB	136, 224, 219
RGB Percent	53%, 88%, 86%
CMY	0.4667, 0.1216, 0.1412
CMYK	0.39, 0.00, 0.02, 0.12
HSL	177°, 59%, 71%
HSV	177°, 39%, 88%
XYZ	49.5952, 63.6600, 76.6915
YIQ	197.1180, -50.8430, -20.2110

# Conversions

## Conversions Part 2

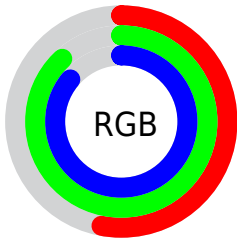
<b>Format</b>	<b>Color</b>
<b>RYB</b>	136, 181, 224
Decimal	8970459
CIELab	83.79, -27.59, -5.90
CIELCh	84, 28.211, 192.069
Yxy	63.6600, 0.2611, 0.3351
Android (android.graphics.Color)	4287160539 (0xFF88E0DB)
YUV	197.1180, 10.7878, -53.6005
Hunter-Lab	79.7872, -28.6732, -1.1385

# Details

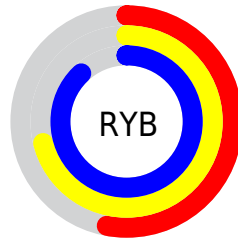
The XYZ color **49.5952, 63.6600, 76.6915** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **44.3546, 35.3806, 29.6931**, and the grayscale version is **53.1026, 55.8681, 60.8404**.

A 20% lighter version of the original color is **75.8023, 90.0775, 107.9992**, and **24.0117, 32.3911, 40.1085** is the 20% darker color. If you saturate the color by 10%, you get **46.1640, 61.9120, 75.6605**, and if you desaturate by 10%, it is **53.7916, 65.8055, 77.7678**.

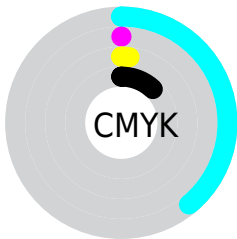
# Distribution



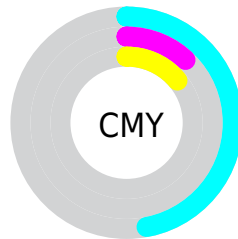
- Red (53%)
- Green (88%)
- Blue (86%)



- Red (53%)
- Yellow (71%)
- Blue (88%)



- Cyan (39%)
- Magenta (0%)
- Yellow (2%)
- Black (12%)



- Cyan (47%)
- Magenta (12%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.5952, 63.6600, 76.6915 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 49.5952, 63.6600, 76.6915 by changing the saturation by 10% instead.



49.5952, 63.6600,  
76.6915

49.5952, 63.6600,  
76.6915

375.5590,  
437.9608, 503.1213

35.3083, 46.3754,  
56.4897

88.7702, 110.1211,  
130.4729

24.0681, 32.5421,  
40.1890

114.3891,  
140.0664, 164.8896

15.5092, 21.7759,  
27.3710

144.5161,  
175.0007, 204.8817

9.2661, 13.6923,  
17.6172

179.5164,  
215.3083, 250.8676

4.9737, 7.9070,  
10.5089

219.7555,  
261.3738, 303.2660

2.2664, 4.0355,  
5.6277

265.5988,

0.7774, 1.6934,

313.5814, 362.4954

2.5549

317.4115,  
372.3156, 428.9743

■ 0.0000, 0.4194,  
0.8691

■ 0.0000, 0.0000,  
0.0000

■ 49.5952, 63.6600,  
76.6915

■ 49.5952, 63.6600,  
76.6915

■ 46.1640, 61.9120,  
75.6605

■ 53.7916, 65.8055,  
77.7678

■ 43.4447, 60.5293,  
74.6681

■ 58.7913, 68.3633,  
78.8870

■ 41.3861, 59.4870,  
73.7132

■ 64.6364, 71.3568,  
80.0525

■ 39.9275, 58.7540,  
72.7932

■ 71.3646, 74.8054,  
81.2661

■ 38.9974, 58.2932,  
71.9044

■ 79.0111, 78.7273,  
82.5294

■ 38.4800, 58.0450,  
71.0416

■ 81.7124, 80.0997,  
83.5680

■ 38.4485, 58.0301,  
70.9805

■ 81.8885, 80.1701,  
84.4953

■ 82.0659, 80.2411,  
85.4294

■ 82.2446, 80.3125,  
86.3703

# Harmonies

## Analogous

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



49.8717, 63.6600, 59.3385



49.5952, 63.6600, 76.6915



52.0922, 63.6600, 94.7626

# Triad

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



49.5952, 63.6600, 76.6915



68.8397, 63.6600, 97.8323



64.2468, 63.6600, 41.6720

# Complementary

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



49.5952, 63.6600, 76.6915



44.3546, 35.3806, 29.6931

# 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.



69.7822, 63.6600, 48.8871



49.5952, 63.6600, 76.6915



72.5559, 63.6600, 80.3512

# Square

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



49.5952, 63.6600, 76.6915



63.0306, 63.6600, 108.2904



72.9121, 63.6600, 62.4272



58.0515, 63.6600, 41.0324

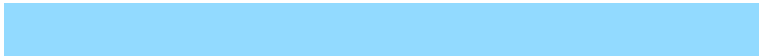


# Rectangle

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



49.5952, 63.6600, 76.6915



55.0998, 63.6600, 104.0149



72.9121, 63.6600, 62.4272



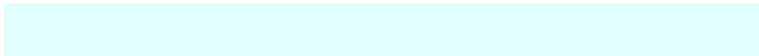
66.2567, 63.6600, 43.3433

# Sweetspot

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



49.5971, 63.6625, 76.6930



84.3958, 94.5398, 106.9462



42.2340, 60.8304, 32.8095



17.8384, 20.1197, 22.8466



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

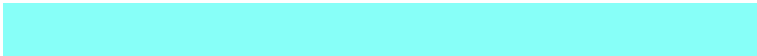


# Same Dimension

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



49.5971, 63.6625, 76.6930



62.7482, 83.4723, 101.7639



41.1407, 45.6799, 77.1725



14.0812, 15.5582, 17.4626



22.3937, 33.7823, 41.3919



1.5626, 2.3458, 2.9239



# Inverse Universe

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



44.3546, 35.3806, 29.6931



54.8046, 40.5817, 30.5211



50.3485, 47.9508, 29.8958



13.7387, 13.7131, 14.3940



17.9480, 9.2462, 1.1259

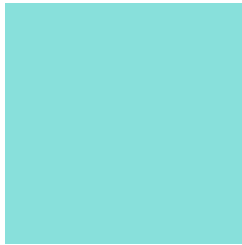


1.2553, 0.6454, 0.1375



# Previews

## White Background



This preview shows how the XYZ color 49.5952, 63.6600, 76.6915 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

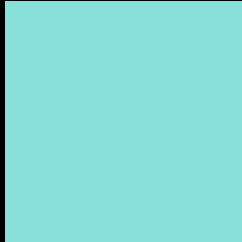
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.5952, 63.6600, 76.6915 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

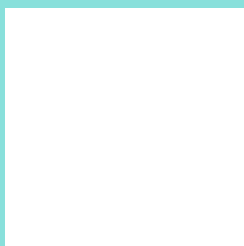
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.5952, 63.6600, 76.6915**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.5952, 63.6600, 76.6915.



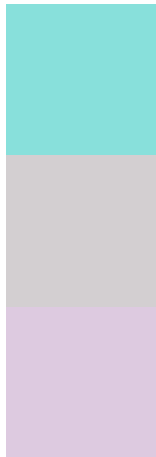
This preview shows how white text looks on a background with the XYZ color 49.5952, 63.6600,



# 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

49.5952, 63.6600, 76.6915

### Protanopia

60.6854, 63.0780, 69.2984

### Deuteranopia

64.3939, 62.9950, 79.2863



## Tritanopia

52.4209, 63.6076, 91.1760

# Trichromacy



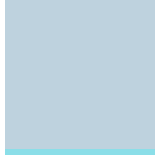
## Original Color

49.5952, 63.6600, 76.6915



## Protanomaly

55.5717, 62.5829, 72.1016



## Deuteranomaly

57.4666, 62.3143, 78.1063



## Tritanomaly

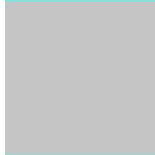
51.3342, 63.5577, 85.9062

# Monochromacy



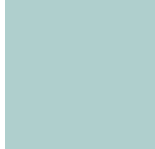
## Original Color

49.5952, 63.6600, 76.6915



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

51.0115, 58.1474, 66.2926

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.5952, 63.6600, 76.6915 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(136, 224, 219)` looks like.

```
.text, #text, p{  
    color:rgb(136, 224, 219)  
}
```

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(136, 224, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 224, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 49.5952, 63.6600, 76.6915 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(136, 224, 219) }
```



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

```
.border{ border-color:rgb(136, 224, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 224, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 224, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 224, 219);  
box-shadow:4px 4px 4px 4px rgb(136, 224,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.5952, 63.6600, 76.6915 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 224, 219) }
```

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

```
.background{ background-color: rgb(136,  
224, 219) }
```

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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