

# Converting Colors

XYZ(49.4373, 63.3900, 78.5414)

Have a look what the booklet for  
XYZ(49.4373, 63.3900, 78.5414)  
contains.

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# Color

**XYZ(49.5133, 63.5718,  
78.7682)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85E0DE
RGB	133, 224, 222
RGB Percent	52%, 88%, 87%
CMY	0.4784, 0.1216, 0.1294
CMYK	0.41, 0.00, 0.01, 0.12
HSL	179°, 59%, 70%
HSV	179°, 41%, 88%
XYZ	49.5133, 63.5718, 78.7682
YIQ	196.5630, -53.5940, -19.9140

# Conversions

## Conversions Part 2

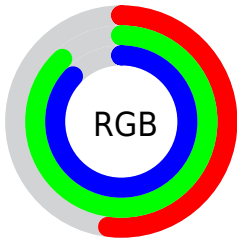
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 179, 224
Decimal	8773854
CIE <sub>Lab</sub>	83.74, -27.61, -7.57
CIE <sub>LCh</sub>	84, 28.629, 195.332
Yxy	63.5718, 0.2581, 0.3314
Android (android.graphics.Color)	4286963934 (0xFF85E0DE)
YUV	196.5630, 12.5404, -55.7448
Hunter-Lab	79.7319, -28.6829, -2.7610

# Details

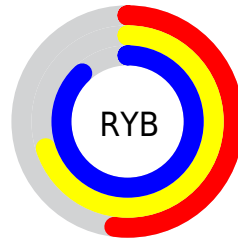
The XYZ color **49.5133, 63.5718, 78.7682** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **43.5033, 34.3734, 27.2657**, and the grayscale version is **52.7591, 55.5067, 60.4468**.

A 20% lighter version of the original color is **75.0452, 89.6871, 107.9638**, and **23.9582, 32.3318, 41.5371** is the 20% darker color. If you saturate the color by 10%, you get **46.2815, 61.9149, 78.2739**, and if you desaturate by 10%, it is **53.5032, 65.6225, 79.3017**.

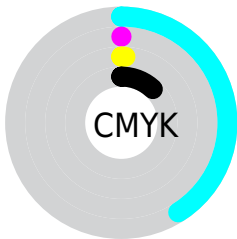
# Distribution



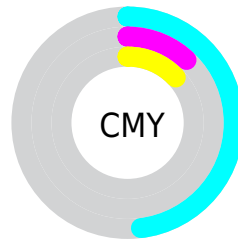
- Red (52%)
- Green (88%)
- Blue (87%)



- Red (52%)
- Yellow (70%)
- Blue (88%)



- Cyan (41%)
- Magenta (0%)
- Yellow (1%)
- Black (12%)




- Cyan (48%)
- Magenta (12%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.5133, 63.5718, 78.7682 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 49.5133, 63.5718, 78.7682 by changing the saturation by 10% instead.





 49.5133, 63.5718,  
78.7682


 49.5133, 63.5718,  
78.7682

375.2431,  
437.6417, 510.3687


 35.2430, 46.3039,  
58.1851


 88.6495, 109.9940,  
133.4282

 24.0175, 32.4857,  
41.5418


 114.2461,  
139.9172, 168.3421

 15.4714, 21.7328,  
28.4198


 144.3489,  
174.8276, 208.8700

 9.2394, 13.6607,  
18.4005

179.3233,  
215.1096, 255.4305

 4.9560, 7.8850,  
11.0655

219.5345,  
261.1476, 308.4421

 2.2560, 4.0215,  
5.9962

265.3480,

 0.7720, 1.6856,

313.3260, 368.3233

2.7740

317.1291,  
372.0293, 435.4926

■ 0.0000, 0.4143,  
0.9804

■ 0.0000, 0.0000,  
0.0000

■ 49.5133, 63.5718,  
78.7682

■ 49.5133, 63.5718,  
78.7682

■ 46.2815, 61.9149,  
78.2739

■ 53.5032, 65.6225,  
79.3017

■ 43.7537, 60.6194,  
77.8122


■ 58.2895, 68.0823,  
79.8721


■ 41.8778, 59.6599,  
77.3821


■ 63.9150, 70.9747,  
80.4828


■ 40.5922, 59.0047,  
76.9805

■ 70.4175, 74.3191,  
81.1356

 39.8230, 58.6157,  
76.6041


 77.8327, 78.1341,  
81.8321

 39.4528, 58.4319,  
76.2686

 81.4817, 80.0075,  
82.3533

 81.5491, 80.0344,  
82.7079

 81.6166, 80.0614,  
83.0636

 81.6844, 80.0885,  
83.4203

# Harmonies

## Analogous

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



49.4816, 63.5718, 60.8290



49.5133, 63.5718, 78.7682



52.3283, 63.5718, 96.8312

# Triad

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



49.5133, 63.5718, 78.7682



69.4210, 63.5718, 96.4770



63.5315, 63.5718, 40.8721

# Complementary

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



49.5133, 63.5718, 78.7682



43.5033, 34.3734, 27.2657

# 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.



69.3124, 63.5718, 47.4286



49.5133, 63.5718, 78.7682



72.8692, 63.5718, 78.3468

# Square

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



49.5133, 63.5718, 78.7682



63.6714, 63.5718, 108.1984



72.8281, 63.5718, 60.4743



57.2872, 63.5718, 40.9452

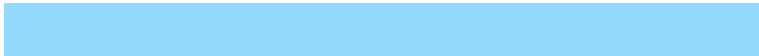


# Rectangle

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



49.5133, 63.5718, 78.7682



55.5239, 63.5718, 105.6271



72.8281, 63.5718, 60.4743



65.6023, 63.5718, 42.3162

# Sweetspot

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



49.5152, 63.5743, 78.7697



84.5664, 94.6080, 107.8445



41.0499, 60.2443, 31.6563



17.8788, 20.1359, 23.0596



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.



49.5152, 63.5743, 78.7697



62.5840, 83.3140, 105.0864



39.7618, 43.6355, 76.8507



14.1029, 15.5669, 17.5770



22.9694, 34.0126, 44.4236



1.5963, 2.3592, 3.1013



# Inverse Universe

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



43.5033, 34.3734, 27.2657



53.4491, 38.9265, 26.8142



50.3973, 48.3849, 28.8746



13.7194, 13.7054, 14.2926



17.9144, 9.2328, 0.9491

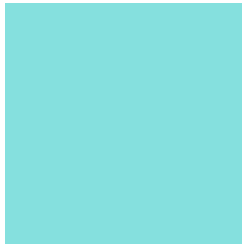


1.2461, 0.6417, 0.0888



# Previews

## White Background



This preview shows how the XYZ color 49.5133, 63.5718, 78.7682 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

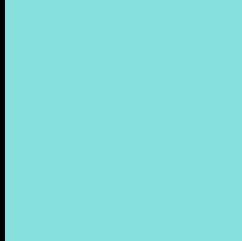
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.5133, 63.5718, 78.7682 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 49.5133, 63.5718, 78.7682

## Background



This preview shows how black text looks on a background with the XYZ color 49.5133, 63.5718, 78.7682.



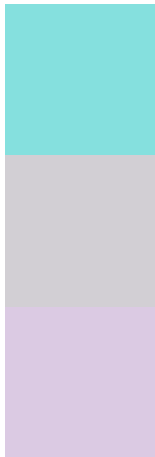
This preview shows how white text looks on a background with the XYZ color 49.5133, 63.5718,



# 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

49.5133, 63.5718, 78.7682

### Protanopia

60.7748, 63.0808, 71.2600

### Deuteranopia

64.1991, 62.8472, 81.4201



## Tritanopia

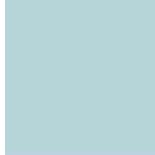
51.9177, 63.3482, 91.1524

# Trichromacy



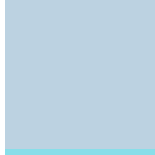
## Original Color

49.5133, 63.5718, 78.7682



## Protanomaly

55.4803, 62.4915, 74.1037



## Deuteranomaly

57.3762, 62.2208, 80.2199



## Tritanomaly

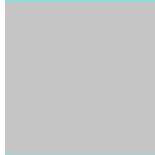
50.9826, 63.3600, 86.6334

# Monochromacy



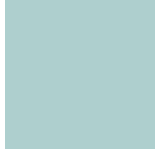
## Original Color

49.5133, 63.5718, 78.7682



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

50.9090, 58.0805, 66.9200

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.5133, 63.5718, 78.7682 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(133, 224, 222)` looks like.

```
.text, #text, p{  
    color:rgb(133, 224, 222)  
}
```

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(133, 224, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 224, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 49.5133, 63.5718, 78.7682 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(133, 224, 222) }
```



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

```
.border{ border-color:rgb(133, 224, 222) }
```

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

Here you see how a box with a 4 pixel rgb(133, 224, 222) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 224, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 224, 222);  
box-shadow:4px 4px 4px 4px rgb(133, 224,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.5133, 63.5718, 78.7682 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 224, 222) }
```

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

```
.background{ background-color: rgb(133,  
224, 222) }
```

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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