

# Converting Colors

XYZ(49.6978, 64.5728, 78.5741)

Have a look what the booklet for  
XYZ(49.6978, 64.5728, 78.5741)  
contains.

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# Color

**XYZ(49.6076, 64.4385,  
78.2299)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83E2DD
RGB	131, 226, 221
RGB Percent	51%, 89%, 87%
CMY	0.4863, 0.1137, 0.1333
CMYK	0.42, 0.00, 0.02, 0.11
HSL	177°, 62%, 70%
HSV	177°, 42%, 89%
XYZ	49.6076, 64.4385, 78.2299
YIQ	197.0250, -55.0150, -21.6950

# Conversions

## Conversions Part 2

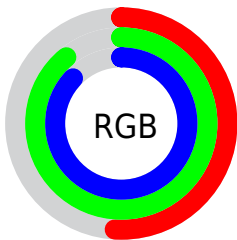
Format	Color
<a href="#">RYB</a>	<a href="#">131, 180, 226</a>
Decimal	<a href="#">8643293</a>
CIELab	<a href="#">84.19, -29.30, -6.38</a>
CIELCh	<a href="#">84, 29.987, 192.288</a>
Yxy	<a href="#">64.4385, 0.2580, 0.3351</a>
Android (android.graphics.Color)	<a href="#">4286833373 (0xFF83E2DD)</a>
YUV	<a href="#">197.0250, 11.8197, -57.9039</a>
Hunter-Lab	<a href="#">80.2736, -30.1691, -1.5890</a>

# Details

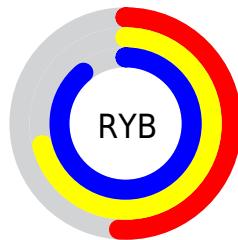
The XYZ color **49.6076, 64.4385, 78.2299** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **43.9265, 34.1808, 27.5773**, and the grayscale version is **53.0423, 55.8047, 60.7713**.

A 20% lighter version of the original color is **74.5490, 89.4314, 107.9406**, and **24.0053, 32.9191, 41.1652** is the 20% darker color. If you saturate the color by 10%, you get **46.3243, 62.7657, 77.2528**, and if you desaturate by 10%, it is **53.6592, 66.5104, 79.2516**.

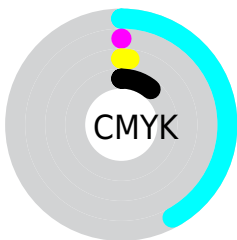
# Distribution



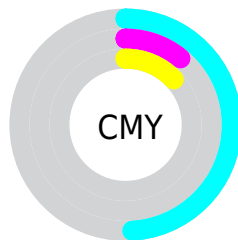
- Red (51%)
- Green (89%)
- Blue (87%)



- Red (51%)
- Yellow (71%)
- Blue (89%)



- Cyan (42%)
- Magenta (0%)
- Yellow (2%)
- Black (11%)



- Cyan (49%)
- Magenta (11%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6076, 64.4385, 78.2299 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 49.6076, 64.4385, 78.2299 by changing the saturation by 10% instead.



49.6076, 64.4385,  
78.2299

49.6076, 64.4385,  
78.2299

375.6068,  
440.7714, 508.4958

35.3182, 47.0059,  
57.7453

88.7885, 111.2422,  
132.6630

24.0758, 33.0403,  
41.1906

114.4108,  
141.3821, 167.4485

15.5149, 22.1573,  
28.1472

144.5414,  
176.5266, 207.8381

9.2702, 13.9726,  
18.1966

179.5456,  
217.0601, 254.2503

4.9764, 8.1016,  
10.9204

219.7890,  
263.3669, 307.1036

2.2680, 4.1600,  
5.8998

265.6367,

0.7782, 1.7635,

315.8315, 366.8166

2.7164

317.4542,  
374.8382, 433.8079

■ 0.0000, 0.4643,  
0.9517

■ 0.0000, 0.0000,  
0.0000

■ 49.6076, 64.4385,  
78.2299

■ 49.6076, 64.4385,  
78.2299

■ 46.3243, 62.7657,  
77.2528

■ 53.6592, 66.5104,  
79.2516

■ 43.7535, 61.4585,  
76.3135


■ 58.5191, 68.9972,  
80.3157


■ 41.8409, 60.4906,  
75.4108


■ 64.2312, 71.9233,  
81.4255


■ 40.5220, 59.8285,  
74.5418


■ 70.8347, 75.3087,  
82.5829


 39.7193, 59.4324,  
73.7027


 78.3662, 79.1724,  
83.7897

 39.3482, 59.2552,  
73.0511

 82.4608, 81.2642,  
84.8416

 82.6267, 81.3306,  
85.7155

 82.7938, 81.3974,  
86.5955

 82.9621, 81.4647,  
87.4814

# Harmonies

## Analogous

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



49.8796, 64.4385, 59.6232



49.6076, 64.4385, 78.2299



52.2853, 64.4385, 97.7313

# Triad

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



49.6076, 64.4385, 78.2299



70.2387, 64.4385, 100.8123



65.2108, 64.4385, 40.7944

# Complementary

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



49.6076, 64.4385, 78.2299



43.9265, 34.1808, 27.5773

# 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.



71.1781, 64.4385, 48.3371



49.6076, 64.4385, 78.2299



74.2219, 64.4385, 81.8760

# Square

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



49.6076, 64.4385, 78.2299



64.0025, 64.4385, 112.2617



74.5776, 64.4385, 62.6698



58.5715, 64.4385, 40.1743

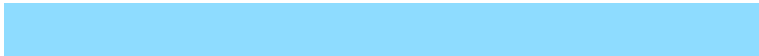


# Rectangle

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



49.6076, 64.4385, 78.2299



55.5035, 64.4385, 107.7358



74.5776, 64.4385, 62.6698



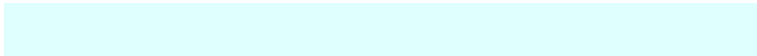
67.3733, 64.4385, 42.5316

# Sweetspot

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



49.6095, 64.4410, 78.2314



83.6085, 94.1340, 106.9042



41.6664, 61.3806, 31.1258



17.5230, 19.9576, 22.8117



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.



49.6095, 64.4410, 78.2314



61.5748, 82.8656, 101.7893



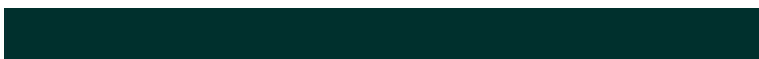
40.4037, 44.9467, 78.5005



14.0838, 15.5592, 17.4763



22.4615, 33.8094, 41.7488



1.5666, 2.3474, 2.9448



# Inverse Universe

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



43.9265, 34.1808, 27.5773



53.2121, 38.2954, 27.2197



50.2473, 47.3783, 27.9708



13.7363, 13.7122, 14.3818



17.9440, 9.2446, 1.1047

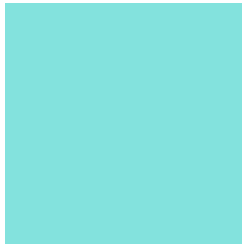


1.2542, 0.6450, 0.1316



# Previews

## White Background



This preview shows how the XYZ color 49.6076, 64.4385, 78.2299 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

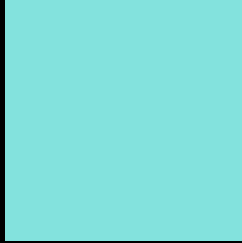
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.6076, 64.4385, 78.2299 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

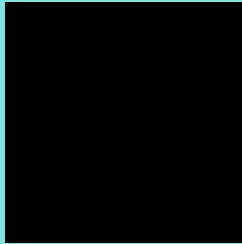
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

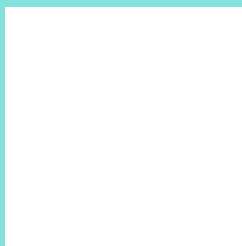
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.6076, 64.4385, 78.2299**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.6076, 64.4385, 78.2299.



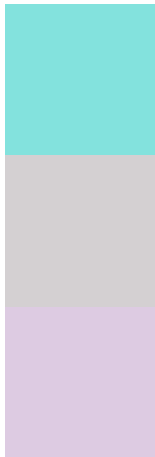
This preview shows how white text looks on a background with the XYZ color 49.6076, 64.4385,



# 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

49.6076, 64.4385, 78.2299

### Protanopia

61.3401, 63.7619, 70.0471

### Deuteranopia

64.9022, 63.5750, 80.8020



## Tritanopia

52.5814, 64.4446, 92.8868

# Trichromacy



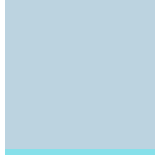
## Original Color

49.6076, 64.4385, 78.2299



## Protanomaly

55.9665, 63.5232, 72.9298



## Deuteranomaly

57.4878, 62.6617, 79.5860



## Tritanomaly

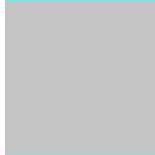
51.4986, 64.4027, 87.5586

# Monochromacy



## Original Color

49.6076, 64.4385, 78.2299



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

50.9300, 58.4522, 66.9906

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6076, 64.4385, 78.2299 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(131, 226, 221)` looks like.

```
.text, #text, p{  
    color:rgb(131, 226, 221)  
}
```

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(131, 226, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 226, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6076, 64.4385, 78.2299 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(131, 226, 221) }
```



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

```
.border{ border-color:rgb(131, 226, 221) }
```

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

Here you see how a box with a 4 pixel rgb(131, 226, 221) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 226, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 226, 221);  
box-shadow:4px 4px 4px 4px rgb(131, 226,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6076, 64.4385, 78.2299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 226, 221) }
```

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

```
.background{ background-color: rgb(131,  
226, 221) }
```

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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