

# Converting Colors

XYZ(47.7395, 62.6663, 73.6240)

Have a look what the booklet for  
XYZ(47.7395, 62.6663, 73.6240)  
contains.

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# Color

**XYZ(47.8235, 62.8068,  
73.8923)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80E0D7
RGB	128, 224, 215
RGB Percent	50%, 88%, 84%
CMY	0.4980, 0.1216, 0.1569
CMYK	0.43, 0.00, 0.04, 0.12
HSL	174°, 61%, 69%
HSV	174°, 43%, 88%
XYZ	47.8235, 62.8068, 73.8923
YIQ	194.2700, -54.3270, -23.1510

# Conversions

## Conversions Part 2

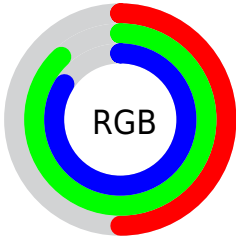
Format	Color
<b>RYB</b>	128, 178, 224
Decimal	8446167
CIELab	83.34, -30.51, -4.48
CIELCh	83, 30.836, 188.352
Yxy	62.8068, 0.2592, 0.3404
Android (android.graphics.Color)	4286636247 (0xFF80E0D7)
YUV	194.2700, 10.2199, -58.1188
Hunter-Lab	79.2507, -30.9738, 0.1943

# Details

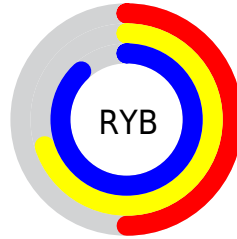
The XYZ color **47.8235, 62.8068, 73.8923** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **42.9772, 33.0936, 27.7919**, and the grayscale version is **51.4040, 54.0810, 58.8942**.

A 20% lighter version of the original color is **73.8176, 89.0543, 107.9063**, and **22.8736, 31.8454, 38.1989** is the 20% darker color. If you saturate the color by 10%, you get **44.5512, 61.1524, 72.3404**, and if you desaturate by 10%, it is **51.8466, 64.8509, 75.5002**.

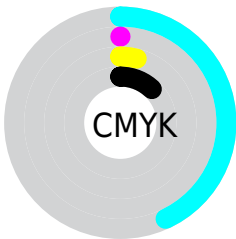
# Distribution



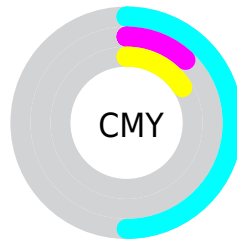
- Red (50%)
- Green (88%)
- Blue (84%)



- Red (50%)
- Yellow (70%)
- Blue (88%)



- Cyan (43%)
- Magenta (0%)
- Yellow (4%)
- Black (12%)



- Cyan (50%)
- Magenta (12%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.8235, 62.8068, 73.8923 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 47.8235, 62.8068, 73.8923 by changing the saturation by 10% instead.



47.8235, 62.8068,  
73.8923

47.8235, 62.8068,  
73.8923

368.6863,  
434.8680, 493.2550

33.8978, 45.6849,  
54.2096

86.1528, 108.8907,  
126.4758

22.9776, 31.9973,  
38.3750

111.2872,  
138.6216, 160.2136

14.6976, 21.3594,  
25.9698

140.8885,  
173.3242, 199.4737

8.6924, 13.3870,  
16.5755

175.3221,  
213.3830, 244.6744

4.5966, 7.6956,  
9.7735

214.9533,  
259.1824, 296.2343

2.0449, 3.9008,  
5.1454

260.1475,

0.6590, 1.6182,

311.1068, 354.5721

2.2726

311.2701,  
369.5405, 420.1061

■ 0.0000, 0.3698,  
0.7158

■ 0.0000, 0.0000,  
0.0000

■ 47.8235, 62.8068,  
73.8923

■ 47.8235, 62.8068,  
73.8923

■ 44.5512, 61.1524,  
72.3404

■ 51.8466, 64.8509,  
75.5002

■ 41.9748, 59.8548,  
70.8377


■ 56.6600, 67.3006,  
77.1618


■ 40.0405, 58.8878,  
69.3830


■ 62.3070, 70.1795,  
78.8807


■ 38.6845, 58.2186,  
67.9733


■ 68.8261, 73.5076,  
80.6587


 37.8294, 57.8072,  
66.6049


 76.2535, 77.3035,  
82.4976

 37.4360, 57.6251,  
65.6484

 81.8455, 80.1529,  
84.2690

 82.1383, 80.2700,  
85.8109

 82.4347, 80.3886,  
87.3715

 82.7346, 80.5086,  
88.9508

# Harmonies

## Analogous

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



48.4933, 62.8068, 55.6451



47.8235, 62.8068, 73.8923



50.1425, 62.8068, 93.9594

# Triad

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



47.8235, 62.8068, 73.8923



68.0612, 62.8068, 101.6333



64.5812, 62.8068, 39.4799

# Complementary

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



47.8235, 62.8068, 73.8923



42.9772, 33.0936, 27.7919

# 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.



70.3918, 62.8068, 47.9327



47.8235, 62.8068, 73.8923



72.5034, 62.8068, 82.9367

# Square

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



47.8235, 62.8068, 73.8923



61.5889, 62.8068, 111.8256



73.3868, 62.8068, 63.1601



57.8423, 62.8068, 37.9650

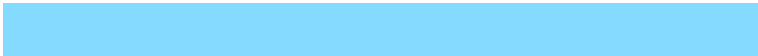


# Rectangle

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



47.8235, 62.8068, 73.8923



53.1815, 62.8068, 104.8937



73.3868, 62.8068, 63.1601



66.7219, 62.8068, 41.5160

# Sweetspot

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



47.8253, 62.8093, 73.8938



83.3917, 94.0473, 105.7630



40.9691, 60.2416, 29.8920



17.4688, 19.9359, 22.5265



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.



47.8253, 62.8093, 73.8938



60.3583, 82.3355, 97.3505



39.8333, 44.9227, 77.0953



14.0582, 15.5490, 17.3420



21.8127, 33.5499, 38.3323



1.5283, 2.3320, 2.7433



# Inverse Universe

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



42.9772, 33.0936, 27.7919



53.0931, 37.7249, 28.2049



48.3480, 44.8261, 26.5275



13.7592, 13.7213, 14.5020



17.9905, 9.2632, 1.3498

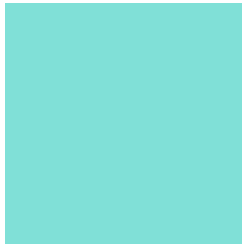


1.2651, 0.6493, 0.1891



# Previews

## White Background



This preview shows how the XYZ color 47.8235, 62.8068, 73.8923 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

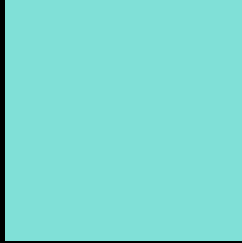
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.8235, 62.8068, 73.8923 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

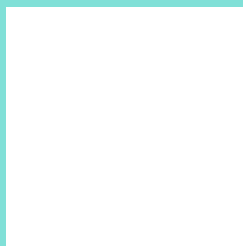
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.8235, 62.8068, 73.8923**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.8235, 62.8068, 73.8923.



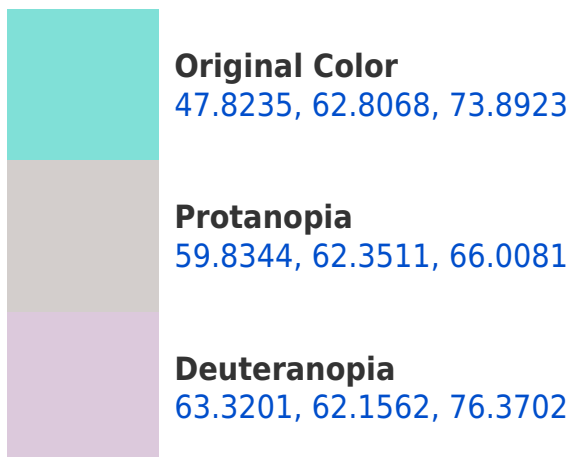
This preview shows how white text looks on a background with the XYZ color 47.8235, 62.8068,



# 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





## **Tritanopia**

51.0175, 62.5103, 90.2657

# Trichromacy



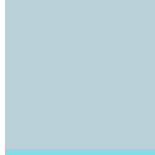
## Original Color

47.8235, 62.8068, 73.8923



## Protanomaly

54.2355, 61.9663, 68.7767



## Deuteranomaly

55.9489, 61.2277, 75.1990



## Tritanomaly

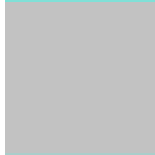
49.6551, 62.3316, 84.2770

# Monochromacy



## Original Color

47.8235, 62.8068, 73.8923



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

49.0696, 56.4730, 64.1912

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.8235, 62.8068, 73.8923 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, 224, 215)` looks like.

```
.text, #text, p{  
    color:rgb(128, 224, 215)  
}
```

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, 224, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 224, 215) }
```

## Border

The CSS property to change the border of an element to XYZ 47.8235, 62.8068, 73.8923 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, 224, 215) }
```



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

```
.border{ border-color:rgb(128, 224, 215) }
```

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

Here you see how a box with a 4 pixel rgb(128, 224, 215) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 224, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 224, 215);  
box-shadow:4px 4px 4px 4px rgb(128, 224,  
215) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.8235, 62.8068, 73.8923 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 224, 215) }
```

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

```
.background{ background-color: rgb(128,  
224, 215) }
```

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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