

# Converting Colors

XYZ(47.5436, 63.7534, 75.6147)

Have a look what the booklet for  
XYZ(47.5436, 63.7534, 75.6147)  
contains.

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# Color

**XYZ(47.6012, 63.8699,  
75.4649)**

# Conversions

## Conversions Part 1

Format	Color
Hex	77E3D9
RGB	119, 227, 217
RGB Percent	47%, 89%, 85%
CMY	0.5333, 0.1098, 0.1490
CMYK	0.48, 0.00, 0.04, 0.11
HSL	174°, 66%, 68%
HSV	174°, 48%, 89%
XYZ	47.6012, 63.8699, 75.4649
YIQ	193.5680, -61.1580, -26.0060

# Conversions

## Conversions Part 2

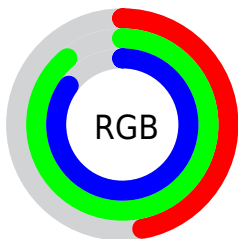
<b>Format</b>	<b>Color</b>
<b>RYB</b>	119, 176, 227
Decimal	7857113
CIELab	83.90, -33.53, -4.76
CIElCh	84, 33.864, 188.074
Yxy	63.8699, 0.2546, 0.3417
Android (android.graphics.Color)	4286047193 (0xFF77E3D9)
YUV	193.5680, 11.5520, -65.3961
Hunter-Lab	79.9186, -33.5393, -0.0428

# Details

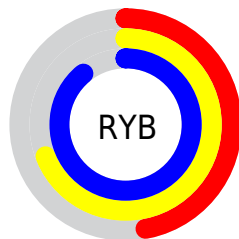
The XYZ color **47.6012, 63.8699, 75.4649** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **42.2400, 31.1113, 24.5499**, and the grayscale version is **50.9844, 53.6396, 58.4135**.

A 20% lighter version of the original color is **71.9415, 88.0871, 107.8185**, and **22.7718, 32.6043, 39.2755** is the 20% darker color. If you saturate the color by 10%, you get **44.5788, 62.3448, 73.9063**, and if you desaturate by 10%, it is **51.3747, 65.7850, 77.0797**.

# Distribution



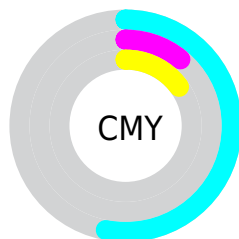
- Red (47%)
- Green (89%)
- Blue (85%)



- Red (47%)
- Yellow (69%)
- Blue (89%)



- Cyan (48%)
- Magenta (0%)
- Yellow (4%)
- Black (11%)



- Cyan (53%)
- Magenta (11%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.6012, 63.8699, 75.4649 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 47.6012, 63.8699, 75.4649 by changing the saturation by 10% instead.





 47.6012, 63.8699,  
75.4649


 47.6012, 63.8699,  
75.4649


367.8182,  
438.7197, 498.8120


 33.7211, 46.5453,  
55.4898


 85.8236, 110.4235,  
128.7234

 22.8413, 32.6763,  
39.3928

 110.8967,  
140.4214, 162.8438

 14.5964, 21.8786,  
26.7552

 140.4314,  
175.4125, 202.5165

 8.6211, 13.7677,  
17.1587

174.7932,  
215.7811, 248.1600

 4.5500, 7.9593,  
10.1845

214.3475,  
261.9118, 300.1927

 2.0177, 4.0689,  
5.4143

259.4595,

 0.6439, 1.7122,

314.1888, 359.0332

2.4294

310.4946,  
372.9967, 425.1001

■ 0.0000, 0.4315,  
0.8024

■ 0.0000, 0.0000,  
0.0000

■ 47.6012, 63.8699,  
75.4649

■ 47.6012, 63.8699,  
75.4649

■ 44.5788, 62.3448,  
73.9063

■ 51.3747, 65.7850,  
77.0797

■ 42.2482, 61.1743,  
72.3968


■ 55.9424, 68.1075,  
78.7484


■ 40.5501, 60.3295,  
70.9349


■ 61.3504, 70.8628,  
80.4749


■ 39.4128, 59.7733,  
69.5173


■ 67.6400, 74.0722,  
82.2609

 38.7392, 59.4559,  
68.1393


 74.8495, 77.7554,  
84.1085

 38.6083, 59.3956,  
67.8095

 82.9392, 81.8920,  
86.0158

 83.2357, 82.0105,  
87.5769

 83.5357, 82.1306,  
89.1569

 83.8393, 82.2520,  
90.7557

# Harmonies

## Analogous

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



48.3655, 63.8699, 55.3233



47.6012, 63.8699, 75.4649



50.1149, 63.8699, 98.0297

# Triad

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



47.6012, 63.8699, 75.4649



69.9741, 63.8699, 107.0903



66.2134, 63.8699, 38.0098

# Complementary

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



47.6012, 63.8699, 75.4649



42.2400, 31.1113, 24.5499

# 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.



72.6940, 63.8699, 47.1911



47.6012, 63.8699, 75.4649



74.9860, 63.8699, 86.0128

# Square

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



47.6012, 63.8699, 75.4649



62.7403, 63.8699, 118.5748



76.0200, 63.8699, 63.9402



58.7170, 63.8699, 36.3236



# Rectangle

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



47.6012, 63.8699, 75.4649



53.4428, 63.8699, 110.4901



76.0200, 63.8699, 63.9402



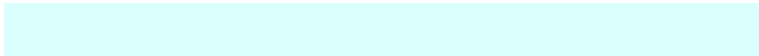
68.6001, 63.8699, 40.2156

# Sweetspot

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



47.6031, 63.8724, 75.4664



82.5859, 93.6355, 105.5619



39.9761, 61.0027, 27.1218



17.3104, 19.8550, 22.4875



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.



47.6031, 63.8724, 75.4664



58.1047, 81.1957, 96.2513



38.5738, 43.6681, 79.0716



14.7469, 16.3122, 18.1977



22.5388, 34.6476, 39.6674



1.6824, 2.5671, 3.0203



# Inverse Universe

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



42.2400, 31.1113, 24.5499



50.3604, 33.7693, 22.6394



47.9661, 43.5761, 23.3370



14.4309, 14.3896, 15.2037



18.5726, 9.5633, 1.3783

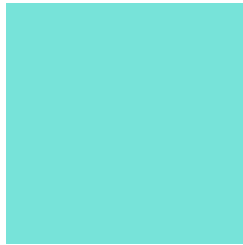


1.3911, 0.7142, 0.2002



# Previews

## White Background



This preview shows how the XYZ color 47.6012, 63.8699, 75.4649 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

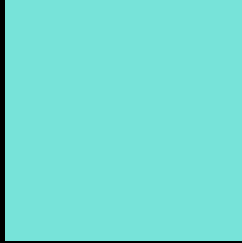
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.6012, 63.8699, 75.4649 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

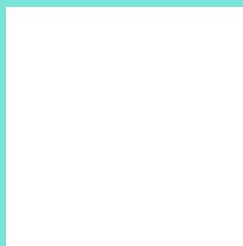
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.6012, 63.8699, 75.4649**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.6012, 63.8699, 75.4649.



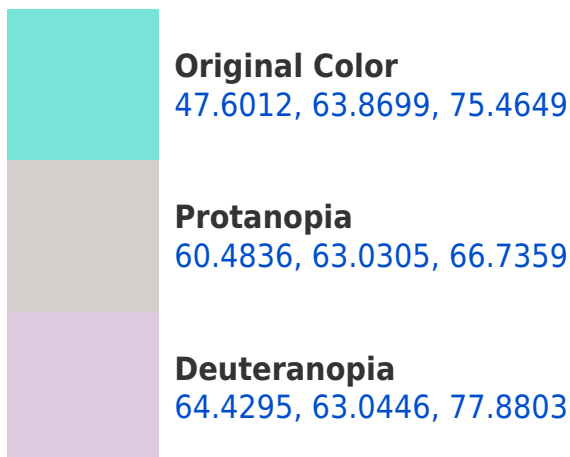
This preview shows how white text looks on a background with the XYZ color 47.6012, 63.8699,

75.4649.

# 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

51.0173, 63.6383, 92.8136

# Trichromacy



## Original Color

47.6012, 63.8699, 75.4649



## Protanomaly

53.9153, 62.1616, 69.4783



## Deuteranomaly

56.2201, 62.0701, 76.7278



## Tritanomaly

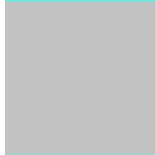
49.5333, 63.4226, 85.9750

# Monochromacy



## Original Color

47.6012, 63.8699, 75.4649



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

48.6683, 56.6224, 64.2412

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.6012, 63.8699, 75.4649 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(119, 227, 217)` looks like.

```
.text, #text, p{  
    color:rgb(119, 227, 217)  
}
```

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(119, 227, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 227, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 47.6012, 63.8699, 75.4649 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(119, 227, 217) }
```



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

```
.border{ border-color:rgb(119, 227, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 227, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 227, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 227, 217);  
box-shadow:4px 4px 4px 4px rgb(119, 227,  
217) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.6012, 63.8699, 75.4649 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 227, 217) }
```

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

```
.background{ background-color: rgb(119,  
227, 217) }
```

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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