

Converting Colors

XYZ(49.6403, 63.3655, 88.4902)

Have a look what the booklet for
XYZ(49.6403, 63.3655, 88.4902)
contains.

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Color

**XYZ(49.6771, 63.4470,
88.2255)**

Conversions

Conversions Part 1

Format	Color
Hex	7AE0EB
RGB	122, 224, 235
RGB Percent	48%, 88%, 92%
CMY	0.5215, 0.1216, 0.0784
CMYK	0.48, 0.05, 0.00, 0.08
HSL	186°, 74%, 70%
HSV	186°, 48%, 92%
XYZ	49.6771, 63.4470, 88.2255
YIQ	194.7560, -64.3230, -18.2030

Conversions

Conversions Part 2

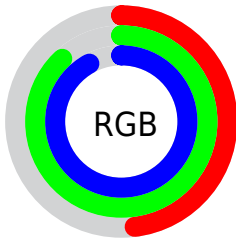
Format	Color
R_{YB}	122, 176, 235
Decimal	8052971
CIE _{Lab}	83.68, -26.89, -14.60
CIE _{LCh}	84, 30.593, 208.501
Yxy	63.4470, 0.2467, 0.3151
Android (android.graphics.Color)	4286243051 (0xFF7AE0EB)
YUV	194.7560, 19.8403, -63.8070
Hunter-Lab	79.6536, -28.0698, -9.9129

Details

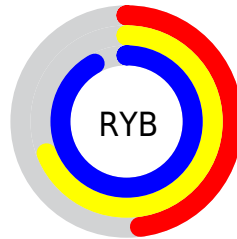
The XYZ color **49.6771, 63.4470, 88.2255** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **46.1626, 35.8437, 22.8996**, and the grayscale version is **51.6415, 54.3308, 59.1663**.

A 20% lighter version of the original color is **72.8661, 88.5638, 107.8618**, and **24.0028, 32.2206, 47.6019** is the 20% darker color. If you saturate the color by 10%, you get **46.1333, 60.7151, 87.8861**, and if you desaturate by 10%, it is **54.0375, 66.6150, 88.6083**.

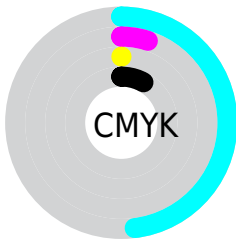
Distribution



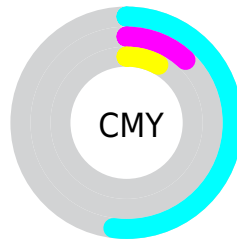
- Red (48%)
- Green (88%)
- Blue (92%)



- Red (48%)
- Yellow (69%)
- Blue (92%)



- Cyan (48%)
- Magenta (5%)
- Yellow (0%)
- Black (8%)



- Cyan (52%)
- Magenta (12%)
- Yellow (8%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6771, 63.4470, 88.2255 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 49.6771, 63.4470, 88.2255 by changing the saturation by 10% instead.

■ 49.6771, 63.4470,
88.2255

■ 49.6771, 63.4470,
88.2255

375.8748,
437.1899, 542.6618

■ 35.3736, 46.2029,
65.9444

■ 88.8910, 109.8141,
146.7850

■ 24.1187, 32.4060,
47.7711

■ 114.5321,
139.7060, 183.9004

■ 15.5469, 21.6718,
33.2870

■ 144.6831,
174.5826, 226.7978

■ 9.2929, 13.6159,
22.0734

179.7094,
214.8282, 275.8956

■ 4.9914, 7.8540,
13.7120

219.9764,
260.8274, 331.6124

■ 2.2769, 4.0017,
7.7842

265.8494,

■ 0.7828, 1.6745,

312.9645, 394.3666

3.8714

317.6937,
371.6239, 464.5769

■ 0.0000, 0.4071,
1.5551

■ 0.0000, 0.0000,
0.2584

■ 49.6771, 63.4470,
88.2255

■ 49.6771, 63.4470,
88.2255

■ 46.1333, 60.7151,
87.8861

■ 54.0375, 66.6150,
88.6083

■ 43.3413, 58.3815,
87.5828


■ 59.2617, 70.2393,
89.0325


■ 41.2358, 56.4141,
87.3140


■ 65.4004, 74.3474,
89.5019


■ 39.7380, 54.7720,
87.0760

■ 72.4984, 78.9624,
90.0186


 38.7375, 53.3984,
86.8636


 80.5978, 84.1061,
90.5845

 38.5713, 53.1496,
86.8244

 86.7308, 88.2486,
91.0609

 87.4000, 89.5869,
91.2839

 88.0776, 90.9423,
91.5098

 88.7638, 92.3147,
91.7385

Harmonies

Analogous

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



48.3216, 63.4470, 68.1223



49.6771, 63.4470, 88.2255



53.8210, 63.4470, 105.5568

Triad

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



49.6771, 63.4470, 88.2255



71.9689, 63.4470, 90.2079



60.6421, 63.4470, 38.3757

Complementary

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



49.6771, 63.4470, 88.2255



46.1626, 35.8437, 22.8996

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.



67.2888, 63.4470, 42.1588



49.6771, 63.4470, 88.2255



74.1207, 63.4470, 70.0526

Square

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



49.6771, 63.4470, 88.2255



66.6628, 63.4470, 106.8424



72.3487, 63.4470, 52.9314



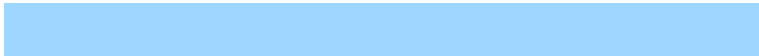
54.3639, 63.4470, 41.4682

Rectangle

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



49.6771, 63.4470, 88.2255



57.7727, 63.4470, 111.9097



72.3487, 63.4470, 52.9314



62.9092, 63.4470, 38.8697

Sweetspot

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



49.6790, 63.4494, 88.2270



82.0153, 91.6497, 107.9752



41.8610, 65.2056, 32.0026



17.1697, 19.3651, 23.0829



0.0000, 0.0000, 0.0000



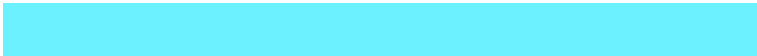
20.3446, 21.4041, 23.3091

Same Dimension

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



49.6790, 63.4494, 88.2270



55.4639, 73.0289, 105.7805



37.2266, 38.5446, 84.0762



15.3851, 16.8566, 19.3650



21.5190, 29.6850, 48.3386



1.7262, 2.4038, 3.8079

Inverse Universe

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



54.6767, 36.9648, 74.7767



62.3263, 38.1235, 86.9836



55.7407, 54.9999, 26.0923



15.6479, 15.2870, 18.6973



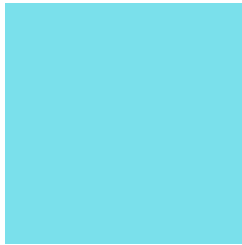
25.7171, 12.4895, 35.9072



2.0378, 0.9881, 2.9163

Previews

White Background



This preview shows how the XYZ color 49.6771, 63.4470, 88.2255 looks on a white background.

Color Contrast Check

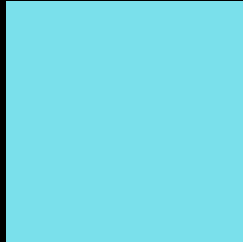
Large Text (above 18pt) WCAG AA × Fail

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 49.6771, 63.4470, 88.2255 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 49.6771, 63.4470, 88.2255

Background



This preview shows how black text looks on a background with the XYZ color 49.6771, 63.4470, 88.2255.



This preview shows how white text looks on a background with the XYZ color 49.6771, 63.4470,

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

49.6771, 63.4470, 88.2255

Protanopia

60.9795, 62.6462, 79.3990

Deuteranopia

64.0001, 62.5294, 91.1343



Tritanopia

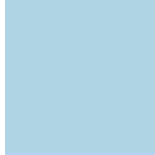
50.5770, 63.4113, 92.7930

Trichromacy



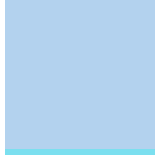
Original Color

49.6771, 63.4470, 88.2255



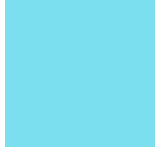
Protanomaly

55.4770, 62.3039, 82.5007



Deuteranomaly

57.0696, 61.8499, 89.8193



Tritanomaly

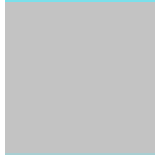
50.1360, 63.2183, 91.2213

Monochromacy



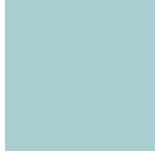
Original Color

49.6771, 63.4470, 88.2255



Achromatopsia

51.8711, 54.5724, 59.4294



Achromatomaly

49.8526, 57.1206, 69.3706

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.6771, 63.4470, 88.2255 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(122, 224, 235)` looks like.

```
.text, #text, p{  
    color:rgb(122, 224, 235)  
}
```

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(122, 224, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 224, 235) }
```

Border

The CSS property to change the border of an element to XYZ 49.6771, 63.4470, 88.2255 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(122, 224, 235) }
```


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

```
.border{ border-color:rgb(122, 224, 235) }
```

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

Here you see how a box with a 4 pixel rgb(122, 224, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 224, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 224, 235);  
box-shadow:4px 4px 4px 4px rgb(122, 224,  
235) }
```

Background

The CSS property to change the background color of an element to XYZ 49.6771, 63.4470, 88.2255 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 224, 235) }
```

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

```
.background{ background-color: rgb(122,  
224, 235) }
```

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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