

Converting Colors

XYZ(49.7852, 63.8225, 90.0406)

Have a look what the booklet for
XYZ(49.7852, 63.8225, 90.0406)
contains.

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Color

**XYZ(49.8190, 63.8868,
89.8264)**

Conversions

Conversions Part 1

Format	Color
Hex	77E1ED
RGB	119, 225, 237
RGB Percent	47%, 88%, 93%
CMY	0.5333, 0.1176, 0.0706
CMYK	0.50, 0.05, 0.00, 0.07
HSL	186°, 77%, 70%
HSV	186°, 50%, 93%
XYZ	49.8190, 63.8868, 89.8264
YIQ	194.6740, -67.0280, -18.7400

Conversions

Conversions Part 2

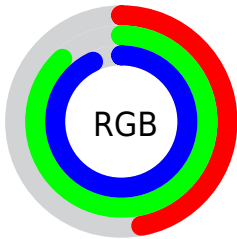
Format	Color
RYB	119, 175, 237
Decimal	7856621
CIELab	83.91, -27.49, -15.32
CIELCh	84, 31.475, 209.133
Yxy	63.8868, 0.2448, 0.3139
Android (android.graphics.Color)	4286046701 (0xFF77E1ED)
YUV	194.6740, 20.8667, -66.3661
Hunter-Lab	79.9292, -28.6191, -10.6811

Details

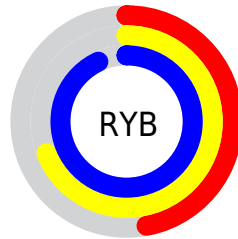
The XYZ color **49.8190, 63.8868, 89.8264** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **46.3723, 35.5702, 21.8760**, and the grayscale version is **51.5880, 54.2746, 59.1050**.

A 20% lighter version of the original color is **72.1701, 88.2050, 107.8292**, and **24.1040, 32.5244, 48.7235** is the 20% darker color. If you saturate the color by 10%, you get **46.3166, 61.1224, 89.4785**, and if you desaturate by 10%, it is **54.1453, 67.0925, 90.2183**.

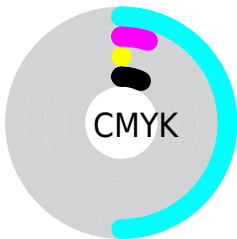
Distribution



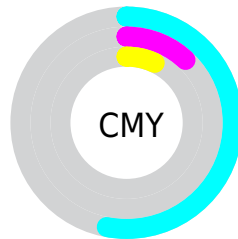
- Red (47%)
- Green (88%)
- Blue (93%)



- Red (47%)
- Yellow (69%)
- Blue (93%)



- Cyan (50%)
- Magenta (5%)
- Yellow (0%)
- Black (7%)





- Cyan (53%)
- Magenta (12%)
- Yellow (7%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.8190, 63.8868, 89.8264 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 49.8190, 63.8868, 89.8264 by changing the saturation by 10% instead.


 49.8190, 63.8868,
89.8264


 49.8190, 63.8868,
89.8264


376.4214,
438.7807, 548.0215

 35.4868, 46.5590,
67.2638


 89.1001, 110.4479,
149.0306

 24.2064, 32.6872,
48.8361


 114.7797,
140.4500, 186.5093

 15.6123, 21.8869,
34.1248


 144.9724,
175.4456, 229.7971

 9.3394, 13.7738,
22.7113

180.0437,
215.8192, 279.3126

 5.0221, 7.9635,
14.1772

220.3589,
261.9551, 335.4742

 2.2951, 4.0716,
8.1039

266.2834,

 0.7922, 1.7137,

314.2377, 398.7005

4.0728

318.1824,
373.0515, 469.4101

■ 0.0000, 0.4325,
1.6653

■ 0.0000, 0.0000,
0.3368

■ 49.8190, 63.8868,
89.8264

■ 49.8190, 63.8868,
89.8264

■ 46.3166, 61.1224,
89.4785

■ 54.1453, 67.0925,
90.2183

■ 43.5709, 58.7602,
89.1673


■ 59.3450, 70.7607,
90.6523


■ 41.5136, 56.7664,
88.8909


■ 65.4702, 74.9198,
91.1322


■ 40.0612, 55.0979,
88.6454


■ 72.5674, 79.5939,
91.6603


 39.0754, 53.6835,
88.4243


 80.6800, 84.8052,
92.2386

 39.0562, 53.6544,
88.4198

 87.5284, 89.3787,
92.7605

 88.2404, 90.8028,
92.9978

 88.9619, 92.2458,
93.2383

 89.6929, 93.7078,
93.4820

Harmonies

Analogous

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



48.3586, 63.8868, 68.9865



49.8190, 63.8868, 89.8264



54.1444, 63.8868, 107.6949

Triad

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



49.8190, 63.8868, 89.8264



72.8832, 63.8868, 91.0167



60.9242, 63.8868, 37.9760

Complementary

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



49.8190, 63.8868, 89.8264



46.3723, 35.5702, 21.8760

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.



67.8129, 63.8868, 41.6961



49.8190, 63.8868, 89.8264



75.0322, 63.8868, 70.1404

Square

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



49.8190, 63.8868, 89.8264



67.4379, 63.8868, 108.4690



73.1110, 63.8868, 52.6002



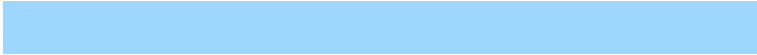
54.4683, 63.8868, 41.2873

Rectangle

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



49.8190, 63.8868, 89.8264



58.2467, 63.8868, 114.1321



73.1110, 63.8868, 52.6002



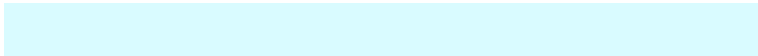
63.2674, 63.8868, 38.4317

Sweetspot

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



49.8210, 63.8892, 89.8279



81.1228, 90.9970, 107.8963



41.9766, 66.1249, 31.9544



16.9911, 19.2309, 23.0664



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.



49.8210, 63.8892, 89.8279



54.5259, 72.0376, 105.6386



36.5680, 37.3834, 85.4103



15.3792, 16.8449, 19.3631



21.3792, 29.4053, 48.2920



1.7166, 2.3846, 3.8047

Inverse Universe

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



55.1141, 36.6361, 75.4035



61.6369, 37.0210, 85.9021



56.6264, 56.0784, 25.2941



15.6450, 15.2858, 18.6816



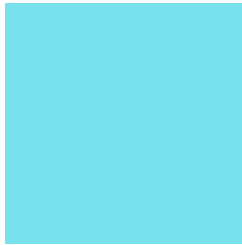
25.6465, 12.4613, 35.5355



2.0330, 0.9861, 2.8909

Previews

White Background



This preview shows how the XYZ color 49.8190, 63.8868, 89.8264 looks on a white background.

Color Contrast Check

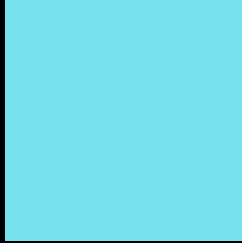
Large Text (above 18pt) WCAG AA × Fail

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 49.8190, 63.8868, 89.8264 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 49.8190, 63.8868, 89.8264

Background



This preview shows how black text looks on a background with the XYZ color 49.8190, 63.8868, 89.8264.

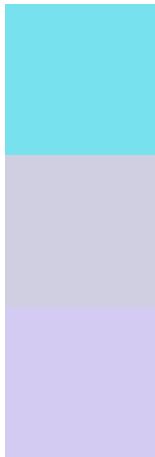


This preview shows how white text looks on a background with the XYZ color 49.8190, 63.8868,

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

49.8190, 63.8868, 89.8264

Protanopia

61.6356, 63.3273, 80.2090

Deuteranopia

64.5343, 63.1197, 92.7864



Tritanopia

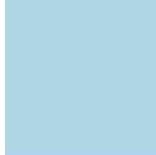
50.5678, 63.7871, 93.6513

Trichromacy



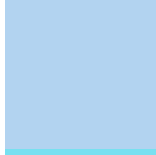
Original Color

49.8190, 63.8868, 89.8264



Protanomaly

55.8686, 62.8642, 83.3182



Deuteranomaly

57.3825, 62.3448, 91.4474



Tritanomaly

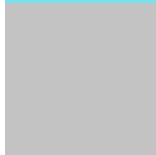
50.1296, 63.5956, 92.0712

Monochromacy



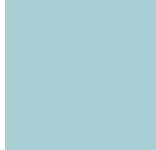
Original Color

49.8190, 63.8868, 89.8264



Achromatopsia

51.8711, 54.5724, 59.4294



Achromatomaly

49.6405, 57.0112, 69.3607

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.8190, 63.8868, 89.8264 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, 225, 237)` looks like.

```
.text, #text, p{  
    color:rgb(119, 225, 237)  
}
```

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, 225, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 225, 237) }
```

Border

The CSS property to change the border of an element to XYZ 49.8190, 63.8868, 89.8264 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, 225, 237) }
```


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

```
.border{ border-color:rgb(119, 225, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 225, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 225, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 225, 237);  
box-shadow:4px 4px 4px 4px rgb(119, 225,  
237) }
```

Background

The CSS property to change the background color of an element to XYZ 49.8190, 63.8868, 89.8264 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 225, 237) }
```

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

```
.background{ background-color: rgb(119,  
225, 237) }
```

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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