

# Converting Colors

XYZ(49.7383, 64.5245, 86.2142)

Have a look what the booklet for  
XYZ(49.7383, 64.5245, 86.2142)  
contains.

<b>XYZ(49.6470, 64.2839, 86.1353)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(49.6470, 64.2839,  
86.1353)**

# Conversions

## Conversions Part 1

Format	Color
Hex	79E2E8
RGB	121, 226, 232
RGB Percent	47%, 89%, 91%
CMY	0.5255, 0.1137, 0.0902
CMYK	0.48, 0.03, 0.00, 0.09
HSL	183°, 71%, 69%
HSV	183°, 48%, 91%
XYZ	49.6470, 64.2839, 86.1353
YIQ	195.2890, -64.5060, -20.3940

# Conversions

## Conversions Part 2

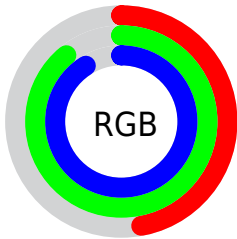
<b>Format</b>	<b>Color</b>
<b>RYB</b>	121, 175, 232
Decimal	7987944
CIELab	84.11, -28.85, -12.36
CIElCh	84, 31.385, 203.196
Yxy	64.2839, 0.2482, 0.3213
Android (android.graphics.Color)	4286178024 (0xFF79E2E8)
YUV	195.2890, 18.0985, -65.1515
Hunter-Lab	80.1772, -29.7802, -7.5718

# Details

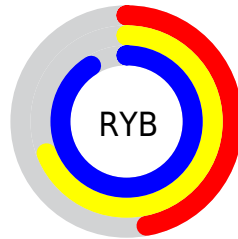
The XYZ color **49.6470, 64.2839, 86.1353** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **44.3204, 33.7160, 22.2626**, and the grayscale version is **51.9688, 54.6752, 59.5413**.

A 20% lighter version of the original color is **72.6324, 88.4433, 107.8509**, and **24.0148, 32.8138, 46.1423** is the 20% darker color. If you saturate the color by 10%, you get **46.4394, 62.1276, 85.8893**, and if you desaturate by 10%, it is **53.6427, 66.8532, 86.4218**.

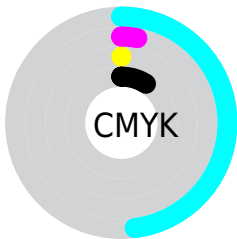
# Distribution



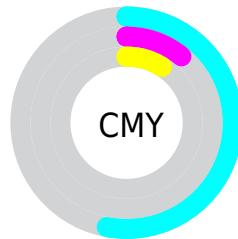
- Red (47%)
- Green (89%)
- Blue (91%)



- Red (47%)
- Yellow (69%)
- Blue (91%)



- Cyan (48%)
- Magenta (3%)
- Yellow (0%)
- Black (9%)



- Cyan (53%)
- Magenta (11%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6470, 64.2839, 86.1353 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 49.6470, 64.2839, 86.1353 by changing the saturation by 10% instead.



49.6470, 64.2839,  
86.1353

49.6470, 64.2839,  
86.1353

375.7587,  
440.2141, 535.6195

35.3496, 46.8807,  
64.2243

88.8466, 111.0197,  
143.8465

24.1001, 32.9413,  
46.3850

114.4795,  
141.1210, 180.4838

15.5330, 22.0815,  
32.1989

144.6217,  
176.2239, 222.8670

9.2831, 13.9168,  
21.2474

179.6385,  
216.7126, 271.4145

4.9849, 8.0628,  
13.1120

219.8952,  
262.9716, 326.5450

2.2730, 4.1352,  
7.3741

265.7573,

0.7808, 1.7495,

315.3852, 388.6770

3.6151

317.5900,  
374.3379, 458.2289

■ 0.0000, 0.4554,  
1.4167

■ 0.0000, 0.0000,  
0.1547

■ 49.6470, 64.2839,  
86.1353

■ 49.6470, 64.2839,  
86.1353

■ 46.4394, 62.1276,  
85.8893

■ 53.6427, 66.8532,  
86.4218

■ 43.9571, 60.3474,  
85.6765


■ 58.4720, 69.8544,  
86.7465


■ 42.1373, 58.9124,  
85.4954

■ 64.1838, 73.3143,  
87.1133


■ 40.9038, 57.7833,  
85.3425


■ 70.8215, 77.2552,  
87.5241


 40.1522, 56.9064,  
85.2129


 78.4258, 81.6982,  
87.9809

 40.0188, 56.7325,  
85.1863

 85.0936, 85.6621,  
88.3946

 85.4508, 86.3766,  
88.5137

 85.8106, 87.0961,  
88.6336

 86.1729, 87.8206,  
88.7544

# Harmonies

## Analogous

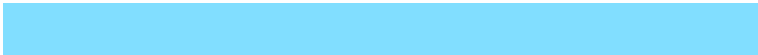
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



48.7953, 64.2839, 65.5675



49.6470, 64.2839, 86.1353



53.4562, 64.2839, 105.2315

# Triad

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



49.6470, 64.2839, 86.1353



72.4080, 64.2839, 95.4495



62.6930, 64.2839, 38.5155

# Complementary

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



49.6470, 64.2839, 86.1353



44.3204, 33.7160, 22.2626

# 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.



69.4396, 64.2839, 43.6583



49.6470, 64.2839, 86.1353



75.3166, 64.2839, 74.6158

# Square

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



49.6470, 64.2839, 86.1353



66.5027, 64.2839, 111.2803



74.1912, 64.2839, 56.0072



55.9979, 64.2839, 40.4386

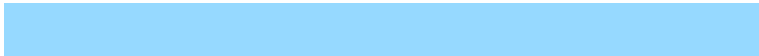


# Rectangle

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



49.6470, 64.2839, 86.1353



57.3262, 64.2839, 113.2755



74.1912, 64.2839, 56.0072



65.0357, 64.2839, 39.4370

# Sweetspot

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



49.6489, 64.2864, 86.1368



82.5014, 92.6220, 108.1373



40.5447, 63.3001, 30.0080



17.2895, 19.6048, 23.1228



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.



49.6489, 64.2864, 86.1368



57.7424, 77.1235, 106.4507



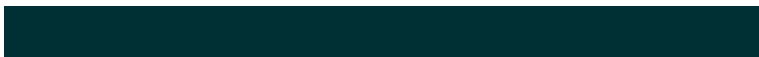
37.0056, 38.9998, 81.9224



14.7372, 16.1959, 18.4937



22.2472, 31.5564, 47.3016



1.6645, 2.3730, 3.5023



# Inverse Universe

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



53.8452, 36.3232, 76.1274



63.5893, 39.0609, 92.3019



53.4695, 52.0143, 25.3123



14.9597, 14.6011, 17.9882



25.6228, 12.3834, 38.5044

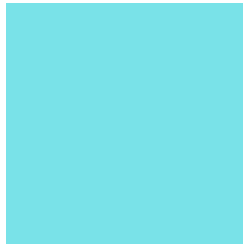


1.9038, 0.9192, 2.8999



# Previews

## White Background



This preview shows how the XYZ color 49.6470, 64.2839, 86.1353 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

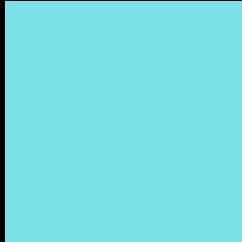
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.6470, 64.2839, 86.1353 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

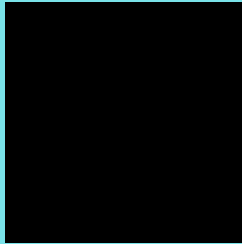
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.6470, 64.2839, 86.1353**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.6470, 64.2839, 86.1353.



This preview shows how white text looks on a background with the XYZ color 49.6470, 64.2839,



# 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

49.6470, 64.2839, 86.1353

### Protanopia

61.5256, 63.3483, 76.6948

### Deuteranopia

64.6663, 63.2734, 88.9255



## Tritanopia

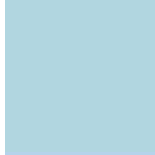
50.9948, 64.0072, 93.6713

# Trichromacy



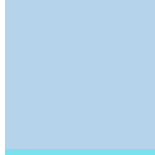
## Original Color

49.6470, 64.2839, 86.1353



## Protanomaly

55.6326, 62.8221, 79.7147



## Deuteranomaly

57.3457, 62.4104, 87.6212



## Tritanomaly

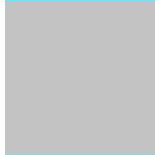
50.5262, 64.2344, 90.6244

# Monochromacy



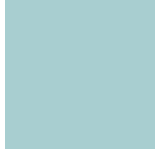
## Original Color

49.6470, 64.2839, 86.1353



## Achromatopsia

51.8711, 54.5724, 59.4294



## Achromatomaly

49.6049, 57.0215, 68.0663

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6470, 64.2839, 86.1353 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(121, 226, 232)` looks like.

```
.text, #text, p{  
    color:rgb(121, 226, 232)  
}
```

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(121, 226, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 226, 232) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6470, 64.2839, 86.1353 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(121, 226, 232) }
```



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

```
.border{ border-color:rgb(121, 226, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 226, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 226, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 226, 232);  
box-shadow:4px 4px 4px 4px rgb(121, 226,  
232) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6470, 64.2839, 86.1353 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 226, 232) }
```

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

```
.background{ background-color: rgb(121,  
226, 232) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor