

# Converting Colors

XYZ(48.6848, 64.6622, 83.3137)

Have a look what the booklet for  
XYZ(48.6848, 64.6622, 83.3137)  
contains.

<b>XYZ(48.6864, 64.6656, 83.3145)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(48.6864, 64.6656,  
83.3145)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72E4E4
RGB	114, 228, 228
RGB Percent	45%, 89%, 89%
CMY	0.5529, 0.1059, 0.1059
CMYK	0.50, 0.00, 0.00, 0.11
HSL	180°, 68%, 67%
HSV	180°, 50%, 89%
XYZ	48.6864, 64.6656, 83.3145
YIQ	193.9140, -67.9440, -24.1680

# Conversions

## Conversions Part 2

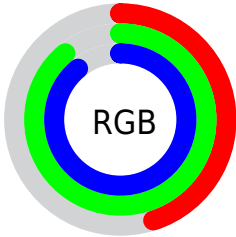
Format	Color
<a href="#">RYB</a>	<a href="#">114, 171, 228</a>
Decimal	<a href="#">7529700</a>
CIELab	<a href="#">84.31, -32.31, -9.98</a>
CIELCh	<a href="#">84, 33.820, 197.162</a>
Yxy	<a href="#">64.6656, 0.2476, 0.3288</a>
Android (android.graphics.Color)	<a href="#">4285719780 (0xFF72E4E4)</a>
YUV	<a href="#">193.9140, 16.8044, -70.0846</a>
Hunter-Lab	<a href="#">80.4149, -32.6551, -5.1374</a>

# Details

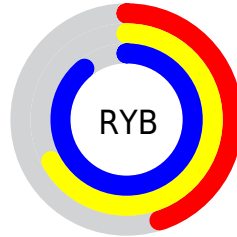
The XYZ color **48.6864, 64.6656, 83.3145** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **41.0516, 29.7454, 19.4995**, and the grayscale version is **51.1616, 53.8260, 58.6165**.

A 20% lighter version of the original color is **71.2656, 87.7387, 107.7869**, and **23.5143, 33.1506, 44.6945** is the 20% darker color. If you saturate the color by 10%, you get **46.0828, 63.3249, 83.1938**, and if you desaturate by 10%, it is **52.0330, 66.3923, 83.4728**.

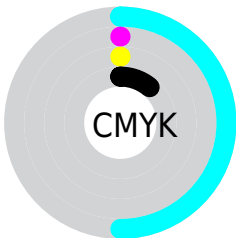
# Distribution



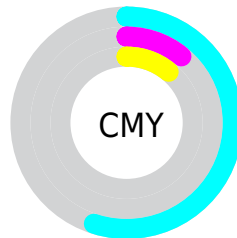
- Red (45%)
- Green (89%)
- Blue (89%)



- Red (45%)
- Yellow (67%)
- Blue (89%)



- Cyan (50%)
- Magenta (0%)
- Yellow (0%)
- Black (11%)




- Cyan (55%)
- Magenta (11%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.6864, 64.6656, 83.3145 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 48.6864, 64.6656, 83.3145 by changing the saturation by 10% instead.





 48.6864, 64.6656,  
83.3145


 48.6864, 64.6656,  
83.3145


372.0439,  
441.5893, 526.0325


 34.5843, 47.1900,  
61.9075


 87.4290, 111.5690,  
139.8690

 23.5078, 33.1859,  
44.5227


 112.8003,  
141.7655, 175.8537

 15.0917, 22.2689,  
30.7414


 142.6586,  
176.9711, 217.5346

 8.9705, 14.0546,  
20.1452

177.3694,  
217.5702, 265.3303

 4.7789, 8.1586,  
12.3155

217.2979,  
263.9472, 319.6595

 2.1515, 4.1966,  
6.8338

262.8096,

 0.7170, 1.7842,

316.4864, 380.9405

3.2815

314.2698,  
375.5723, 449.5920

■ 0.0000, 0.4773,  
1.2401

■ 0.0000, 0.0000,  
0.0119

■ 48.6864, 64.6656,  
83.3145

■ 48.6864, 64.6656,  
83.3145

■ 46.0828, 63.3249,  
83.1938

■ 52.0330, 66.3923,  
83.4728

■ 44.1603, 62.3338,  
83.1035

■ 56.1669, 68.5234,  
83.6666

■ 42.8570, 61.6620,  
83.0422

■ 61.1359, 71.0850,  
83.8994

■ 42.0969, 61.2701,  
83.0064

■ 66.9823, 74.0990,  
84.1733

41.7480, 61.0903,  
82.9898

73.7456, 77.5856,  
84.4901

41.7479, 61.0902,  
82.9898

81.4629, 81.5639,  
84.8516

82.9886, 82.3505,  
84.9233

82.9887, 82.3505,  
84.9236

82.9887, 82.3505,  
84.9239

# Harmonies

## Analogous

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



48.4457, 64.6656, 61.6246



48.6864, 64.6656, 83.3145



52.1685, 64.6656, 105.2488

# Triad

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



48.6864, 64.6656, 83.3145



72.6567, 64.6656, 102.3946



64.7235, 64.6656, 37.3273

# Complementary

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



48.6864, 64.6656, 83.3145



41.0516, 29.7454, 19.4995

# 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.



71.8000, 64.6656, 44.2570



48.6864, 64.6656, 83.3145



76.6246, 64.6656, 79.9927

# Square

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



48.6864, 64.6656, 83.3145



65.8173, 64.6656, 117.7096



76.2989, 64.6656, 58.9117



57.3045, 64.6656, 37.8581

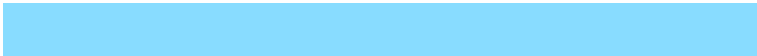


# Rectangle

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



48.6864, 64.6656, 83.3145



56.0330, 64.6656, 115.7497



76.2989, 64.6656, 58.9117



67.2323, 64.6656, 38.7908

# Sweetspot

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



48.6883, 64.6681, 83.3160



82.3509, 93.4534, 108.3051



37.9718, 60.4103, 25.5802



17.2905, 19.8297, 23.1660



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.



48.6883, 64.6681, 83.3160



59.2891, 81.5646, 107.2241



35.8694, 39.0299, 79.0444



14.8075, 16.3364, 18.5171



24.1059, 35.2745, 47.9196



1.7813, 2.6067, 3.5411



# Inverse Universe

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



41.0516, 29.7454, 19.4995



48.3898, 31.7221, 16.1436



49.2410, 46.1244, 22.2288



14.3771, 14.3680, 14.9201



18.4751, 9.5242, 0.8647



1.3652, 0.7038, 0.0639



# Previews

## White Background



This preview shows how the XYZ color 48.6864, 64.6656, 83.3145 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

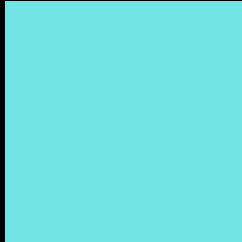
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.6864, 64.6656, 83.3145 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

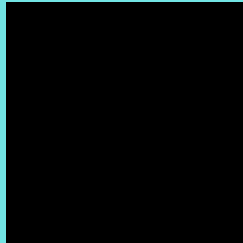
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.6864, 64.6656, 83.3145**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.6864, 64.6656, 83.3145.



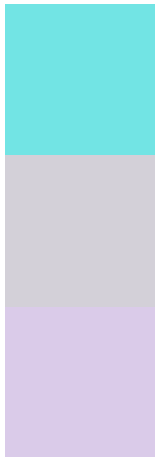
This preview shows how white text looks on a background with the XYZ color 48.6864, 64.6656,



# 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

48.6864, 64.6656, 83.3145

### Protanopia

61.8145, 63.9185, 74.0453

### Deuteranopia

64.9774, 63.5005, 85.9229



## Tritanopia

51.1332, 64.8463, 95.4095

# Trichromacy



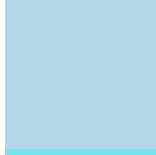
## Original Color

48.6864, 64.6656, 83.3145



## Protanomaly

55.1232, 62.9983, 76.9647



## Deuteranomaly

56.7897, 62.5598, 84.6834



## Tritanomaly

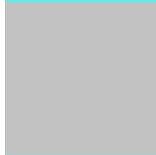
50.2378, 64.8931, 90.7667

# Monochromacy



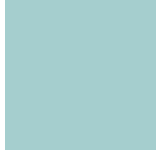
## Original Color

48.6864, 64.6656, 83.3145



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

48.7289, 56.5982, 66.7488

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.6864, 64.6656, 83.3145 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(114, 228, 228)` looks like.

```
.text, #text, p{  
    color:rgb(114, 228, 228)  
}
```

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(114, 228, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 228, 228) }
```

## Border

The CSS property to change the border of an element to XYZ 48.6864, 64.6656, 83.3145 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(114, 228, 228) }
```



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

```
.border{ border-color:rgb(114, 228, 228) }
```

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

Here you see how a box with a 4 pixel rgb(114, 228, 228) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 228, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 228, 228);  
box-shadow:4px 4px 4px 4px rgb(114, 228,  
228) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.6864, 64.6656, 83.3145 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 228, 228) }
```

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

```
.background{ background-color: rgb(114,  
228, 228) }
```

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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