

# Converting Colors

XYZ(49.6864, 65.4367, 74.9590)

Have a look what the booklet for  
XYZ(49.6864, 65.4367, 74.9590)  
contains.

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# Color

**XYZ(49.6538, 65.3502,  
74.9626)**

# Conversions

## Conversions Part 1

Format	Color
Hex	84E4D8
RGB	132, 228, 216
RGB Percent	52%, 89%, 85%
CMY	0.4823, 0.1059, 0.1529
CMYK	0.42, 0.00, 0.05, 0.11
HSL	172°, 64%, 71%
HSV	172°, 42%, 89%
XYZ	49.6538, 65.3502, 74.9626
YIQ	197.9280, -53.3640, -24.0840

# Conversions

## Conversions Part 2

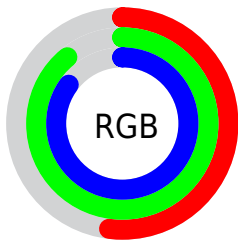
<b>Format</b>	<b>Color</b>
<b>RYB</b>	132, 183, 228
Decimal	8709336
CIELab	84.66, -31.20, -3.04
CIELCh	85, 31.350, 185.568
Yxy	65.3502, 0.2614, 0.3440
Android (android.graphics.Color)	4286899416 (0xFF84E4D8)
YUV	197.9280, 8.9095, -57.8189
Hunter-Lab	80.8395, -31.8295, 1.6079

# Details

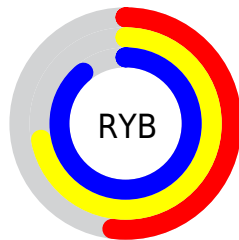
The XYZ color **49.6538, 65.3502, 74.9626** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **45.2824, 35.0120, 30.7593**, and the grayscale version is **53.6052, 56.3968, 61.4161**.

A 20% lighter version of the original color is **74.7963, 89.5588, 107.9521**, and **24.0872, 33.5741, 38.9291** is the 20% darker color. If you saturate the color by 10%, you get **46.1057, 63.5649, 72.8906**, and if you desaturate by 10%, it is **53.9912, 67.5449, 77.1077**.

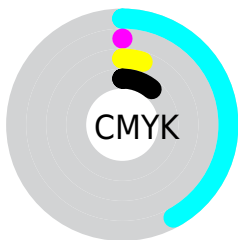
# Distribution



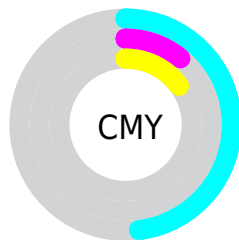
- Red (52%)
- Green (89%)
- Blue (85%)



- Red (52%)
- Yellow (72%)
- Blue (89%)



- Cyan (42%)
- Magenta (0%)
- Yellow (5%)
- Black (11%)




- Cyan (48%)
- Magenta (11%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6538, 65.3502, 74.9626 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 49.6538, 65.3502, 74.9626 by changing the saturation by 10% instead.





 49.6538, 65.3502,  
74.9626

 49.6538, 65.3502,  
74.9626

375.7849,  
444.0494, 497.0410


 35.3551, 47.7451,  
55.0807


 88.8566, 112.5532,  
128.0060

 24.1043, 33.6251,  
39.0673


 114.4914,  
142.9199, 162.0046

 15.5362, 22.6057,  
26.5039


 144.6356,  
178.3092, 201.5459

 9.2853, 14.3026,  
16.9718

179.6545,  
219.1056, 247.0484

 4.9863, 8.3315,  
10.0527

219.9136,  
265.6934, 298.9306

 2.2739, 4.3078,  
5.3278

265.7781,

 0.7813, 1.8472,

318.4570, 357.6111

2.3788

317.6134,  
377.7809, 423.5084

■ 0.0000, 0.5163,  
0.7749

■ 0.0000, 0.0000,  
0.0000

■ 49.6538, 65.3502,  
74.9626

■ 49.6538, 65.3502,  
74.9626

■ 46.1057, 63.5649,  
72.8906

■ 53.9912, 67.5449,  
77.1077

■ 43.2898, 62.1548,  
70.8847


■ 59.1590, 70.1653,  
79.3239


■ 41.1507, 61.0927,  
68.9435


■ 65.2020, 73.2361,  
81.6147

■ 39.6222, 60.3448,  
67.0638


■ 72.1602, 76.7780,  
83.9822


 38.6249, 59.8700,  
65.2416


 80.0713, 80.8104,  
86.4283

 38.1112, 59.6357,  
63.8387

 83.7075, 82.6382,  
88.7085

 84.1184, 82.8026,  
90.8722

 84.5359, 82.9696,  
93.0707

 84.9600, 83.1392,  
95.3041

# Harmonies

## Analogous

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



50.6440, 65.3502, 56.3687



49.6538, 65.3502, 74.9626



51.7928, 65.3502, 96.0230

# Triad

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



49.6538, 65.3502, 74.9626



70.2786, 65.3502, 107.3542



67.8502, 65.3502, 41.5061

# Complementary

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



49.6538, 65.3502, 74.9626



45.2824, 35.0120, 30.7593

# 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.



73.7213, 65.3502, 51.0006



49.6538, 65.3502, 74.9626



75.1955, 65.3502, 88.3248

# Square

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



49.6538, 65.3502, 74.9626



63.4290, 65.3502, 116.8452



76.5003, 65.3502, 67.4791



60.8162, 65.3502, 39.2642

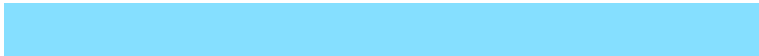


# Rectangle

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



49.6538, 65.3502, 74.9626



54.8075, 65.3502, 107.9322



76.5003, 65.3502, 67.4791



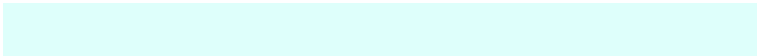
70.0413, 65.3502, 43.8548

# Sweetspot

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



49.6557, 65.3528, 74.9641



83.2281, 93.9818, 104.9011



43.5521, 63.1570, 31.7262



17.4280, 19.9196, 22.3114



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.



49.6557, 65.3528, 74.9641



59.7518, 82.0929, 94.1569



42.5471, 48.5608, 80.5324



14.7258, 16.3038, 18.0868



22.0364, 34.4466, 37.0214



1.6503, 2.5542, 2.8509



# Inverse Universe

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



45.2824, 35.0120, 30.7593



53.3906, 37.8439, 29.7716



50.0174, 45.8729, 28.0493



14.4499, 14.3972, 15.3038



18.6229, 9.5834, 1.6434

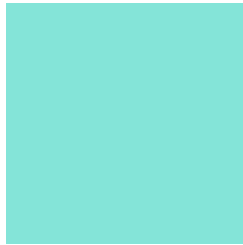


1.4002, 0.7178, 0.2478



# Previews

## White Background



This preview shows how the XYZ color 49.6538, 65.3502, 74.9626 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

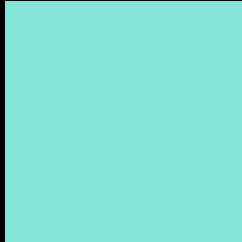
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.6538, 65.3502, 74.9626 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

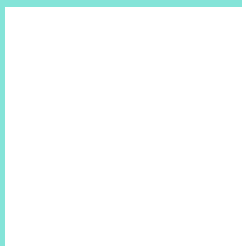
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.6538, 65.3502, 74.9626**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.6538, 65.3502, 74.9626.



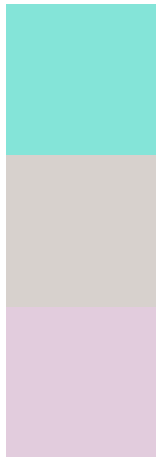
This preview shows how white text looks on a background with the XYZ color 49.6538, 65.3502,

74.9626.

# 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

49.6538, 65.3502, 74.9626

### Protanopia

61.8442, 64.4558, 66.9393

### Deuteranopia

66.0080, 64.5749, 77.3918



## Tritanopia

53.3301, 65.2111, 93.7806

# Trichromacy



## Original Color

49.6538, 65.3502, 74.9626



## Protanomaly

56.0721, 64.0295, 69.7252



## Deuteranomaly

58.3187, 63.9094, 76.2799



## Tritanomaly

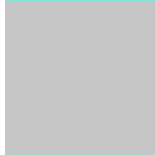
51.7865, 64.9679, 86.9014

# Monochromacy



## Original Color

49.6538, 65.3502, 74.9626



## Achromatopsia

53.6758, 56.4712, 61.4971



## Achromatomaly

51.2755, 59.0074, 66.4447

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6538, 65.3502, 74.9626 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(132, 228, 216)` looks like.

```
.text, #text, p{  
    color:rgb(132, 228, 216)  
}
```

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(132, 228, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 228, 216) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6538, 65.3502, 74.9626 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(132, 228, 216) }
```



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

```
.border{ border-color:rgb(132, 228, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 228, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(132, 228, 216); -webkit-box-shadow:4px 4px 4px 4px rgb(132, 228, 216); box-shadow:4px 4px 4px 4px rgb(132, 228, 216) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6538, 65.3502, 74.9626 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 228, 216) }
```

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

```
.background{ background-color: rgb(132,  
228, 216) }
```

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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