

# Converting Colors

XYZ(49.3714, 66.8138, 74.2507)

Have a look what the booklet for  
XYZ(49.3714, 66.8138, 74.2507)  
contains.

<b>XYZ(49.4345, 66.9046, 74.5984)</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(49.4345, 66.9046,  
74.5984)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7CE8D7
RGB	124, 232, 215
RGB Percent	49%, 91%, 84%
CMY	0.5137, 0.0902, 0.1569
CMYK	0.47, 0.00, 0.07, 0.09
HSL	171°, 70%, 70%
HSV	171°, 47%, 91%
XYZ	49.4345, 66.9046, 74.5984
YIQ	197.7700, -58.9110, -28.1830

# Conversions

## Conversions Part 2

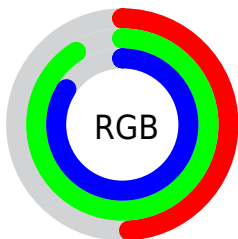
Format	Color
<a href="#">RYB</a>	<a href="#">124, 183, 232</a>
Decimal	<a href="#">8186071</a>
CIELab	<a href="#">85.46, -35.21, -1.39</a>
CIELCh	<a href="#">85, 35.237, 182.261</a>
Yxy	<a href="#">66.9046, 0.2589, 0.3504</a>
Android (android.graphics.Color)	<a href="#">4286376151</a> ( <a href="#">0xFF7CE8D7</a> )
YUV	<a href="#">197.7700, 8.4944, -64.6963</a>
Hunter-Lab	<a href="#">81.7952, -35.2618, 3.1834</a>

# Details

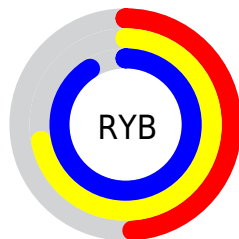
The XYZ color **49.4345, 66.9046, 74.5984** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **45.2963, 33.4960, 29.2796**, and the grayscale version is **53.5142, 56.3011, 61.3119**.

A 20% lighter version of the original color is **73.1014, 88.6851, 107.8728**, and **23.9848, 34.6787, 38.6872** is the 20% darker color. If you saturate the color by 10%, you get **46.0043, 65.1915, 72.0164**, and if you desaturate by 10%, it is **53.6677, 69.0337, 77.2756**.

# Distribution



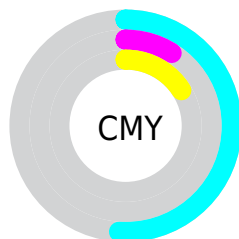
- Red (49%)
- Green (91%)
- Blue (84%)



- Red (49%)
- Yellow (72%)
- Blue (91%)



- Cyan (47%)
- Magenta (0%)
- Yellow (7%)
- Black (9%)



- Cyan (51%)
- Magenta (9%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.4345, 66.9046, 74.5984 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 49.4345, 66.9046, 74.5984 by changing the saturation by 10% instead.



49.4345, 66.9046,  
74.5984

49.4345, 66.9046,  
74.5984

374.9390,  
449.6051, 495.7546

35.1802, 49.0071,  
54.7842

88.5333, 114.7837,  
127.4856

23.9689, 34.6251,  
38.8315

114.1085,  
145.5341, 161.3956

15.4352, 23.3742,  
26.3219

144.1881,  
181.3376, 200.8414

9.2137, 14.8701,  
16.8367

179.1374,  
222.5785, 246.2414

4.9390, 8.7283,  
9.9574

219.3218,  
269.6414, 298.0142

2.2459, 4.5644,  
5.2655

265.1066,

0.7668, 1.9940,

322.9105, 356.5783

2.3424

316.8572,  
382.7703, 422.3523

■ 0.0000, 0.6040,  
0.7548

■ 0.0000, 0.0000,  
0.0000

■ 49.4345, 66.9046,  
74.5984

■ 49.4345, 66.9046,  
74.5984

■ 46.0043, 65.1915,  
72.0164

■ 53.6677, 69.0337,  
77.2756

■ 43.3151, 63.8576,  
69.5220


■ 58.7489, 71.5971,  
80.0461


■ 41.3052, 62.8727,  
67.1134


■ 64.7264, 74.6213,  
82.9139


■ 39.9002, 62.1984,  
64.7867


■ 71.6436, 78.1287,  
85.8814


 39.0061, 61.7864,  
62.5372


 79.5406, 82.1400,  
88.9508

 38.7625, 61.6774,  
61.7767

 85.3716, 85.0850,  
91.9800

 85.9105, 85.3006,  
94.8183

 86.4605, 85.5206,  
97.7141

 87.0214, 85.7449,  
100.6678

# Harmonies

## Analogous

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



50.9328, 66.9046, 54.2184



49.4345, 66.9046, 74.5984



51.4576, 66.9046, 98.9638

# Triad

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



49.4345, 66.9046, 74.5984



72.1539, 66.9046, 116.7767



71.0172, 66.9046, 40.4176

# Complementary

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



49.4345, 66.9046, 74.5984



45.2963, 33.4960, 29.2796

# 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.



77.4954, 66.9046, 51.7851



49.4345, 66.9046, 74.5984



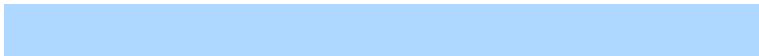
78.1894, 66.9046, 95.3195

# Square

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



49.4345, 66.9046, 74.5984



64.1992, 66.9046, 126.2855



80.2205, 66.9046, 71.1247



62.9863, 66.9046, 37.1187



# Rectangle

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



49.4345, 66.9046, 74.5984



54.6387, 66.9046, 113.5023



80.2205, 66.9046, 71.1247



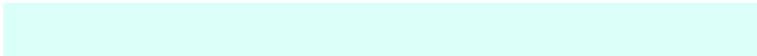
73.4710, 66.9046, 43.2850

# Sweetspot

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



49.4364, 66.9072, 74.6000



82.2220, 93.4899, 103.6452



43.6520, 64.9219, 29.3005



17.2208, 19.8191, 22.0157



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

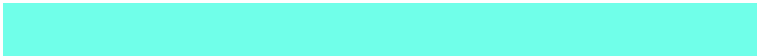


# Same Dimension

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



49.4364, 66.9072, 74.6000



57.1069, 80.8336, 89.3238



42.6196, 49.5934, 83.6731



14.7048, 16.2954, 17.9764



21.5573, 34.2550, 34.4986



1.6193, 2.5419, 2.6880



# Inverse Universe

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



45.2963, 33.4960, 29.2796



51.4070, 34.6328, 26.7794



49.4898, 43.7547, 24.9071



14.4690, 14.4048, 15.4044



18.6859, 9.6086, 1.9747

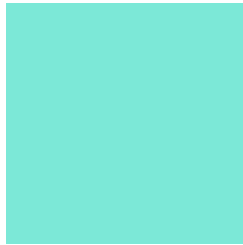


1.4092, 0.7214, 0.2955



# Previews

## White Background



This preview shows how the XYZ color 49.4345, 66.9046, 74.5984 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

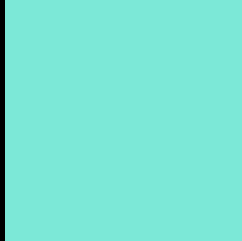
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.4345, 66.9046, 74.5984 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

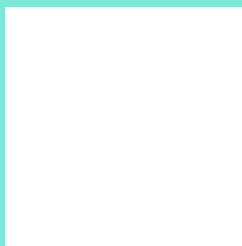
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.4345, 66.9046, 74.5984**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.4345, 66.9046, 74.5984.



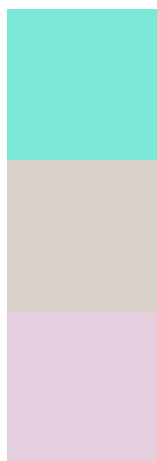
This preview shows how white text looks on a background with the XYZ color 49.4345, 66.9046,



# 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

49.4345, 66.9046, 74.5984

### Protanopia

62.9872, 65.8058, 65.8819

### Deuteranopia

67.4356, 66.0211, 77.5957



## Tritanopia

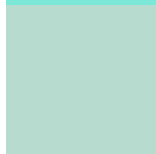
53.7765, 66.5785, 97.2054

# Trichromacy



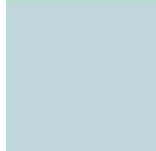
## Original Color

49.4345, 66.9046, 74.5984



## Protanomaly

56.3612, 65.3584, 68.6764



## Deuteranomaly

58.5725, 64.7917, 76.4368



## Tritanomaly

52.2206, 66.7826, 88.7353

# Monochromacy



## Original Color

49.4345, 66.9046, 74.5984



## Achromatopsia

53.6758, 56.4712, 61.4971



## Achromatomaly

50.7403, 59.1107, 65.8620

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.4345, 66.9046, 74.5984 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(124, 232, 215)` looks like.

```
.text, #text, p{  
    color:rgb(124, 232, 215)  
}
```

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(124, 232, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 232, 215) }
```

## Border

The CSS property to change the border of an element to XYZ 49.4345, 66.9046, 74.5984 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(124, 232, 215) }
```



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

```
.border{ border-color:rgb(124, 232, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(124, 232, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(124, 232, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(124, 232, 215);  
box-shadow:4px 4px 4px 4px rgb(124, 232,  
215) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.4345, 66.9046, 74.5984 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 232, 215) }
```

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

```
.background{ background-color: rgb(124,  
232, 215) }
```

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