

# Converting Colors

XYZ(99.0126, 103.7103,  
168.2391)

Have a look what the booklet for  
XYZ(99.0126, 103.7103, 168.2391)  
contains.

<b>XYZ(85.8049, 95.2340, 108.4673)</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(85.8049, 95.2340,  
108.4673)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4FFFF
RGB	228, 255, 255
RGB Percent	89%, 100%, 100%
CMY	0.1059, 0.0000, 0.0000
CMYK	0.11, 0.00, 0.00, 0.00
HSL	180°, 100%, 95%
HSV	180°, 11%, 100%
XYZ	85.8049, 95.2340, 108.4673
YIQ	246.9270, -16.0920, -5.7240

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 242, 255
Decimal	15007743
CIE <sub>Lab</sub>	98.13, -8.69, -2.97
CIE <sub>LCh</sub>	98, 9.184, 198.897
Y <sub>xy</sub>	95.2340, 0.2964, 0.3290
Android (android.graphics.Color)	4293197823 (0xFFE4FFFF)
YUV	246.9270, 3.9800, -16.5990
Hunter-Lab	97.5879, -13.8314, 2.4117

# Details

The XYZ color **85.8049, 95.2340, 108.4673** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **82.9879, 82.3495, 84.9215**, and the grayscale version is **88.3263, 92.9261, 101.1966**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **47.4004, 53.2360, 61.2034** is the 20% darker color. If you saturate the color by 10%, you get **78.3032, 91.3667, 108.1163**, and if you desaturate by 10%, it is **94.5011, 99.7170, 108.8743**.

# Distribution



- Red (89%)
- Green (100%)
- Blue (100%)



- Red (89%)
- Yellow (95%)
- Blue (100%)



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



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 85.8049, 95.2340, 108.4673 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 85.8049, 95.2340, 108.4673 by changing the saturation by 10% instead.




 85.8049, 95.2340,  
108.4673

 85.8049, 95.2340,  
108.4673


502.7313,  
544.9138, 608.4888

 64.8314, 72.3298,  
82.7343

140.4054,  
154.5878, 174.8985

 47.5886, 53.4281,  
61.4317


174.7632,  
191.8062, 216.4337

 33.7111, 38.1446,  
44.1408


214.3130,  
234.5648, 264.0735

 22.8336, 26.0950,  
30.4432

259.4203,  
283.2479, 318.2363

 14.5907, 16.8947,  
19.9203

310.4504,  
338.2400, 379.3407

 8.6171, 10.1594,  
12.1536

367.7687,

 4.5474, 5.5048,

399.9254, 447.8052

6.7246

431.7406,  
468.6885, 524.0484

■ 2.0162, 2.5464,  
3.2146

■ 0.6430, 0.8998,  
1.2053

■ 85.8049, 95.2340,  
108.4673

■ 85.8049, 95.2340,  
108.4673

■ 78.3032, 91.3667,  
108.1163

94.5011, 99.7170,  
108.8743

■ 71.9419, 88.0874,  
107.8186

95.0500, 100.0000,  
108.9000

■ 66.6659, 85.3675,  
107.5716

■ 62.4145, 83.1758,  
107.3727

■ 59.1212, 81.4780,  
107.2186

■ 56.7118, 80.2359,  
107.1058

■ 55.1010, 79.4055,  
107.0304

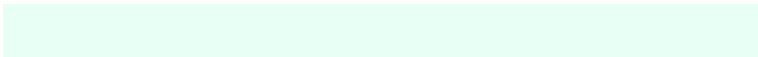
■ 54.1867, 78.9342,  
106.9876

■ 53.8100, 78.7400,  
106.9700

# Harmonies

## Analogous

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



85.6329, 95.2340, 100.9227



85.8049, 95.2340, 108.4673



87.2250, 95.2340, 115.0234

# Triad

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



85.8049, 95.2340, 108.4673



94.3912, 95.2340, 113.5345



91.4969, 95.2340, 90.0889

# Complementary

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



85.8049, 95.2340, 108.4673



82.9879, 82.3495, 84.9215

# 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.



93.8910, 95.2340, 93.1334



85.8049, 95.2340, 108.4673



95.5835, 95.2340, 106.5148

# Square

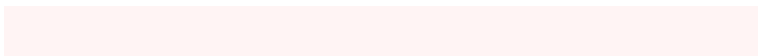
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



85.8049, 95.2340, 108.4673



92.1689, 95.2340, 118.0456



95.3987, 95.2340, 99.0621



88.8851, 95.2340, 90.5548



# Rectangle

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



85.8049, 95.2340, 108.4673



88.7040, 95.2340, 117.8373



95.3987, 95.2340, 99.0621



92.3547, 95.2340, 90.7296

# Sweetspot

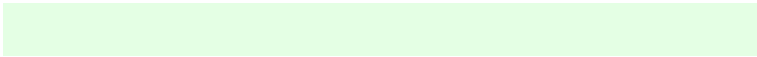
The Sweet Spot groups the original color and five complimentary colors.



85.8056, 95.2343, 108.4674



92.2913, 98.5779, 108.7709



81.7595, 93.6159, 87.1608



19.6004, 21.0204, 23.2742



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.



85.8056, 95.2343, 108.4674



83.8883, 94.2459, 108.3776



81.6494, 86.9220, 107.0820



18.5550, 20.4815, 23.2253



28.1169, 41.1433, 55.8941



2.7376, 4.0060, 5.4422



# Inverse Universe

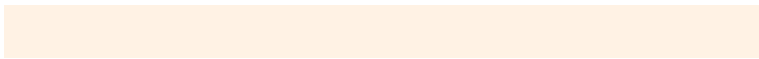
The Inverse Universe completely reimagines the original color for something new.



87.0340, 83.9680, 106.2280



85.3715, 80.6429, 105.6738



86.8477, 90.0692, 86.2081



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Previews

## White Background



This preview shows how the XYZ color 85.8049, 95.2340, 108.4673 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 85.8049, 95.2340, 108.4673 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

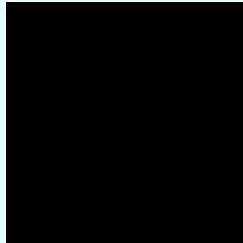
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

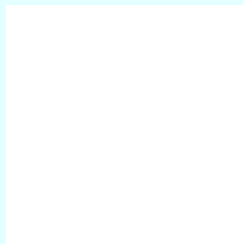
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 85.8049, 95.2340, 108.4673

## Background



This preview shows how black text looks on a background with the XYZ color 85.8049, 95.2340, 108.4673.



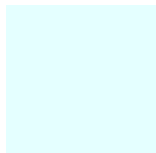
This preview shows how white text looks on a background with the XYZ color 85.8049, 95.2340,

108.4673.

# 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

85.8049, 95.2340, 108.4673

### Protanopia

91.4880, 94.9825, 104.7783

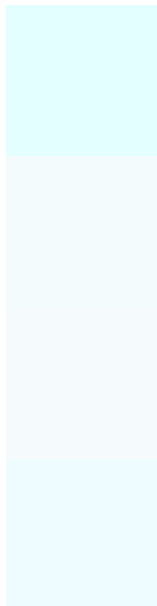
### Deuteranopia

92.0715, 94.8098, 105.5429

## **Tritanopia**

89.8918, 95.0037, 108.2075

# Trichromacy



## Original Color

85.8049, 95.2340, 108.4673

## Protanomaly

89.3761, 95.2557, 105.7710

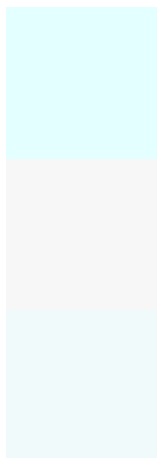
## Deuteranomaly

89.5714, 94.8755, 106.5204

## Tritanomaly

88.4570, 95.1915, 108.3194

# Monochromacy



## Original Color

85.8049, 95.2340, 108.4673

## Achromatopsia

88.4070, 93.0111, 101.2891

## Achromatomaly

87.3761, 93.7986, 103.9422

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 85.8049, 95.2340, 108.4673 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(228, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(228, 255, 255)  
}
```

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(228, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 255, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 85.8049, 95.2340, 108.4673 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(228, 255, 255) }
```



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

```
.border{ border-color:rgb(228, 255, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(228, 255,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 85.8049, 95.2340, 108.4673 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 255, 255) }
```

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

```
.background{ background-color: rgb(228,  
255, 255) }
```

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