

# Converting Colors

XYZ(55.2254, 79.9391, 85.8250)

Have a look what the booklet for  
XYZ(55.2254, 79.9391, 85.8250)  
contains.

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# Color

**XYZ(55.2431, 79.9462,  
85.9183)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66FFE4
RGB	102, 255, 228
RGB Percent	40%, 100%, 89%
CMY	0.6000, 0.0000, 0.1059
CMYK	0.60, 0.00, 0.11, 0.00
HSL	169°, 100%, 70%
HSV	169°, 60%, 100%
XYZ	55.2431, 79.9462, 85.9183
YIQ	206.1750, -82.5210, -40.8330

# Conversions

## Conversions Part 2

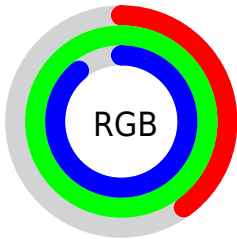
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">102, 186, 255</a>
Decimal	<a href="#">6750180</a>
CIELab	<a href="#">91.66, -46.79, 0.81</a>
CIELCh	<a href="#">92, 46.792, 179.013</a>
Yxy	<a href="#">79.9462, 0.2498, 0.3616</a>
Android (android.graphics.Color)	<a href="#">4284940260 (0xFF66FFE4)</a>
YUV	<a href="#">206.1750, 10.7597, -91.3615</a>
Hunter-Lab	<a href="#">89.4126, -46.1869, 5.6160</a>

# Details

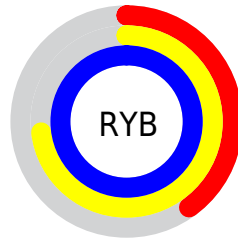
The XYZ color **55.2431, 79.9462, 85.9183** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **49.9548, 32.3491, 24.3816**, and the grayscale version is **58.7501, 61.8097, 67.3107**.

A 20% lighter version of the original color is **69.5359, 86.8470, 107.7060**, and **27.5091, 42.9496, 46.3754** is the 20% darker color. If you saturate the color by 10%, you get **52.1680, 78.4322, 82.5568**, and if you desaturate by 10%, it is **59.2249, 81.9258, 89.4099**.

# Distribution



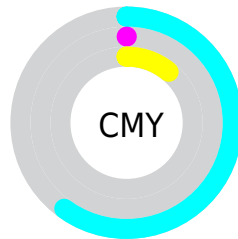
- Red (40%)
- Green (100%)
- Blue (89%)



- Red (40%)
- Yellow (73%)
- Blue (100%)



- Cyan (60%)
- Magenta (0%)
- Yellow (11%)
- Black (0%)



- Cyan (60%)
- Magenta (0%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.2431, 79.9462, 85.9183 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 55.2431, 79.9462, 85.9183 by changing the saturation by 10% instead.





 55.2431, 79.9462,  
85.9183


 55.2431, 79.9462,  
85.9183


396.9542,  
494.7515, 534.8854


 39.8310, 59.6741,  
64.0459


 97.0433, 133.2901,  
143.5410

 27.5904, 43.1560,  
46.2414


 124.1621,  
167.1307, 180.1284

 18.1560, 30.0075,  
32.0863


 155.9138,  
206.2628, 222.4579

 11.1624, 19.8443,  
21.1621

192.6639,  
251.0710, 270.9480

 6.2443, 12.2819,  
13.0501

234.7776,  
301.9395, 326.0172

 3.0363, 6.9360,  
7.3320

282.6203,

 1.1730, 3.4221,

359.2529, 388.0842

3.5890

336.5574,  
423.3954, 457.5674

0.0849, 1.3559,  
1.4027

0.0000, 0.1839,  
0.1438

55.2431, 79.9462,  
85.9183

55.2431, 79.9462,  
85.9183

52.1680, 78.4322,  
82.5568

59.2249, 81.9258,  
89.4099

49.9120, 77.3386,  
79.3165

64.1844, 84.4075,  
93.0314

48.3754, 76.6139,  
76.1935

70.1888, 87.4259,  
96.7879

47.3932, 76.1733,  
73.1793

77.2984, 91.0122,  
100.6830

■ 47.3930, 76.1732,  
73.1786

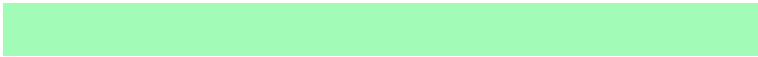
■ 85.5690, 95.1951,  
104.7197

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



57.9353, 79.9462, 57.3637



55.2431, 79.9462, 85.9183



57.6054, 79.9462, 123.0382

# Triad

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



55.2431, 79.9462, 85.9183



87.6888, 79.9462, 158.2410



88.4458, 79.9462, 41.9304

# Complementary

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



55.2431, 79.9462, 85.9183



49.9548, 32.3491, 24.3816

# 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.



97.9127, 79.9462, 58.8645



55.2431, 79.9462, 85.9183



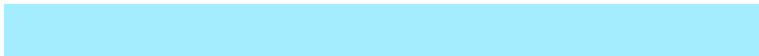
97.4444, 79.9462, 125.5295

# Square

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



55.2431, 79.9462, 85.9183



75.5910, 79.9462, 170.8518



101.3640, 79.9462, 88.1872

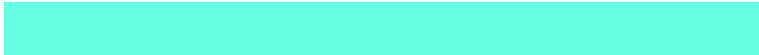


76.3833, 79.9462, 36.4235



# Rectangle

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



55.2431, 79.9462, 85.9183



61.8852, 79.9462, 146.7955



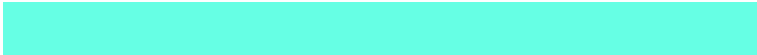
101.3640, 79.9462, 88.1872



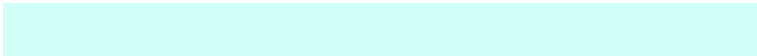
92.0819, 79.9462, 46.2117

# Sweetspot

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



55.2441, 79.9467, 85.9197



78.8559, 91.7991, 101.4778



47.3730, 77.2296, 24.9821



16.3961, 19.4051, 21.4730



0.0000, 0.0000, 0.0000

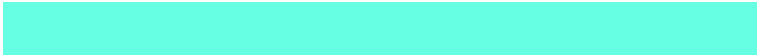


20.3446, 21.4041, 23.3091



# Same Dimension

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



55.2441, 79.9467, 85.9197



51.6535, 78.1810, 81.8982



45.7347, 54.4541, 102.7080



18.4092, 20.4232, 22.4577



24.8140, 39.8222, 38.5016



2.4505, 3.8911, 3.9301



# Inverse Universe

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



49.9548, 32.3491, 24.3816



46.0073, 26.8129, 15.7938



54.6176, 44.1775, 18.2205



18.1402, 18.0394, 19.3555



21.8339, 11.2229, 2.5099

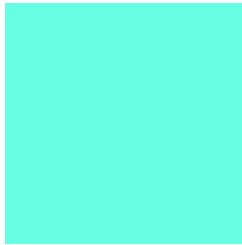


2.1600, 1.1064, 0.4239



# Previews

## White Background



This preview shows how the XYZ color 55.2431, 79.9462, 85.9183 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

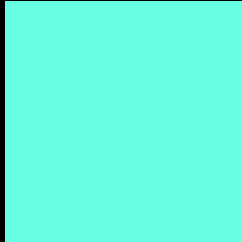
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.2431, 79.9462, 85.9183 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

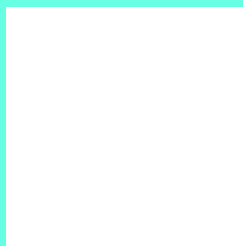
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 55.2431, 79.9462, 85.9183**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.2431, 79.9462, 85.9183.



This preview shows how white text looks on a background with the XYZ color 55.2431, 79.9462,



# Color Blindness Simulation

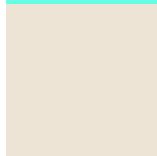
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



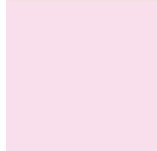
### Original Color

55.2431, 79.9462, 85.9183



### Protanopia

74.6787, 78.2954, 74.1273



### Deuteranopia

80.1836, 78.3804, 89.5001



## Tritanopia

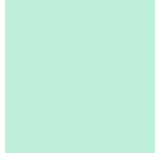
66.5967, 79.3822, 106.4200

# Trichromacy



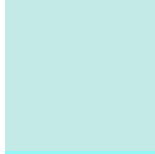
## Original Color

55.2431, 79.9462, 85.9183



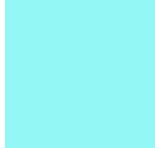
## Protanomaly

63.9685, 76.9024, 77.8018



## Deuteranomaly

66.7533, 76.4076, 87.5738



## Tritanomaly

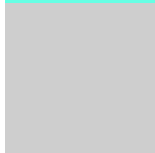
61.5963, 79.2251, 98.4317

# Monochromacy



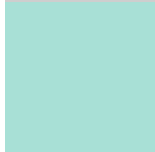
## Original Color

55.2431, 79.9462, 85.9183



## Achromatopsia

58.6655, 61.7207, 67.2138



## Achromatomaly

54.9417, 66.4912, 73.5567

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.2431, 79.9462, 85.9183 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(102, 255, 228)` looks like.

```
.text, #text, p{  
    color:rgb(102, 255, 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(102, 255, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 255, 228) }
```

## Border

The CSS property to change the border of an element to XYZ 55.2431, 79.9462, 85.9183 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(102, 255, 228) }
```



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

```
.border{ border-color:rgb(102, 255, 228) }
```

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

Here you see how a box with a 4 pixel rgb(102, 255, 228) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 255, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 255, 228);  
box-shadow:4px 4px 4px 4px rgb(102, 255,  
228) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.2431, 79.9462, 85.9183 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 255, 228) }
```

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

```
.background{ background-color: rgb(102,  
255, 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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