

# Converting Colors

XYZ(63.3988, 83.7816, 78.0606)

Have a look what the booklet for  
XYZ(63.3988, 83.7816, 78.0606)  
contains.

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# Color

**XYZ(63.3535, 83.8408,  
77.8096)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A5FED8
RGB	165, 254, 216
RGB Percent	65%, 100%, 85%
CMY	0.3529, 0.0039, 0.1529
CMYK	0.35, 0.00, 0.15, 0.00
HSL	154°, 98%, 82%
HSV	154°, 35%, 100%
XYZ	63.3535, 83.8408, 77.8096
YIQ	223.0570, -40.8460, -30.6860

# Conversions

## Conversions Part 2

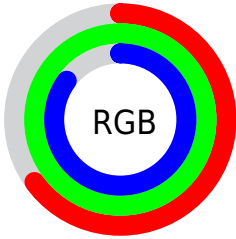
Format	Color
<a href="#">RYB</a>	<a href="#">165, 222, 254</a>
Decimal	<a href="#">10878680</a>
CIELab	<a href="#">93.38, -34.71, 9.78</a>
CIElCh	<a href="#">93, 36.058, 164.262</a>
Yxy	<a href="#">83.8408, 0.2816, 0.3726</a>
Android (android.graphics.Color)	<a href="#">4289068760 (0xFFA5FED8)</a>
YUV	<a href="#">223.0570, -3.4791, -50.9160</a>
Hunter-Lab	<a href="#">91.5646, -36.7341, 13.7119</a>

# Details

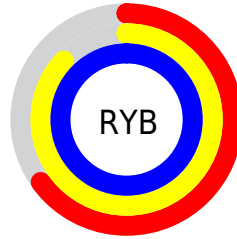
The XYZ color **63.3535, 83.8408, 77.8096** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **65.1105, 52.2949, 63.1653**, and the grayscale version is **70.2263, 73.8836, 80.4592**.

A 20% lighter version of the original color is **83.9342, 94.2696, 108.3798**, and **32.7059, 45.7569, 40.8264** is the 20% darker color. If you saturate the color by 10%, you get **57.2299, 80.8429, 70.4446**, and if you desaturate by 10%, it is **70.6234, 87.4234, 85.7150**.

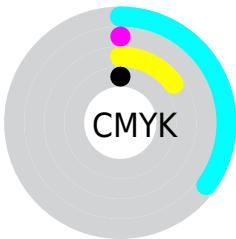
# Distribution



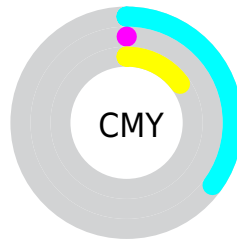
- Red (65%)
- Green (100%)
- Blue (85%)



- Red (65%)
- Yellow (87%)
- Blue (100%)



- Cyan (35%)
- Magenta (0%)
- Yellow (15%)
- Black (0%)




- Cyan (35%)
- Magenta (0%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.3535, 83.8408, 77.8096 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 63.3535, 83.8408, 77.8096 by changing the saturation by 10% instead.





 63.3535, 83.8408,  
77.8096


 63.3535, 83.8408,  
77.8096


426.4906,  
507.7844, 507.0307

 46.3870, 62.8840,  
57.4021


 108.7583,  
138.7525, 132.0651

 32.7572, 45.7474,  
40.9166


 137.9273,  
173.4761, 166.7502

 22.0989, 32.0465,  
27.9347


171.8944,  
213.5575, 207.0315

 14.0466, 21.3970,  
18.0379

211.0251,  
259.3810, 253.3276

 8.2350, 13.4145,  
10.8074

255.6848,  
311.3311, 306.0570

 4.2987, 7.7146,  
5.8250

306.2386,

 1.8725, 3.9129,

369.7921, 365.6383

2.6719

363.0521,  
435.1484, 432.4901

■ 0.5608, 1.6249,  
0.9292

■ 0.0000, 0.3743,  
0.0000

■ 63.3535, 83.8408,  
77.8096

■ 63.3535, 83.8408,  
77.8096

■ 57.2299, 80.8429,  
70.4446

■ 70.6234, 87.4234,  
85.7150

■ 52.1816, 78.3866,  
63.6020

■ 79.0917, 91.6107,  
94.1669

■ 48.1398, 76.4390,  
57.2710

■ 88.8156, 96.4341,  
103.1785

■ 45.0250, 74.9591,  
51.4379

■ 94.7333, 99.3667,  
108.7944

■ 42.7442, 73.8993,  
46.0883

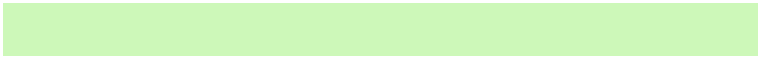
■ 41.1836, 73.2013,  
41.2063

■ 40.5966, 72.9480,  
38.9511

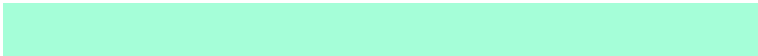
# Harmonies

## Analogous

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



67.5962, 83.8408, 58.6888



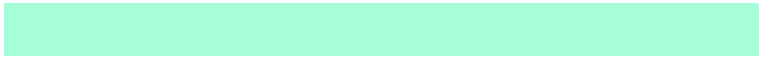
63.3535, 83.8408, 77.8096



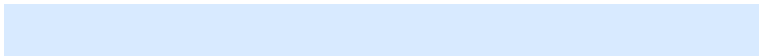
63.2490, 83.8408, 104.8060

# Triad

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



63.3535, 83.8408, 77.8096



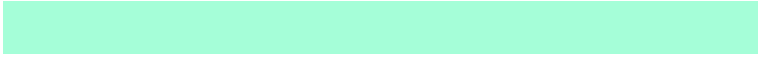
84.2780, 83.8408, 152.0228



93.5123, 83.8408, 59.4018

# Complementary

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



63.3535, 83.8408, 77.8096



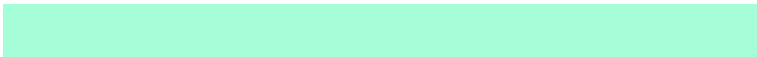
65.1105, 52.2949, 63.1653

# 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.



98.7543, 83.8408, 78.9861



63.3535, 83.8408, 77.8096



93.1425, 83.8408, 134.1576

# Square

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



63.3535, 83.8408, 77.8096



74.8312, 83.8408, 151.5331



98.6138, 83.8408, 106.2402

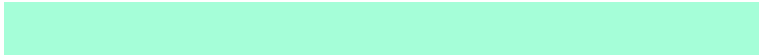


84.7509, 83.8408, 49.5944



# Rectangle

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



63.3535, 83.8408, 77.8096



65.5123, 83.8408, 124.0552



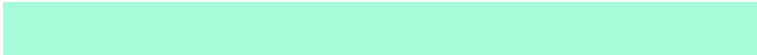
98.6138, 83.8408, 106.2402



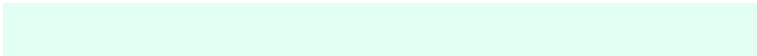
95.7743, 83.8408, 64.8681

# Sweetspot

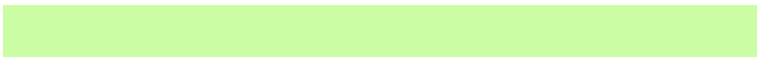
The Sweet Spot groups the original color and five complimentary colors.



63.3558, 83.8442, 77.8115



83.6039, 94.3152, 98.6105



67.0192, 86.3801, 48.7392



17.6161, 20.0492, 20.8455



0.0000, 0.0000, 0.0000

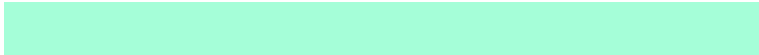


20.3446, 21.4041, 23.3091

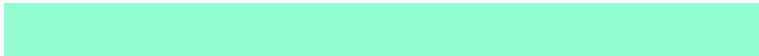


# Same Dimension

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



63.3558, 83.8442, 77.8115



59.4967, 82.4234, 73.2704



66.9970, 82.3343, 106.1310



18.2078, 20.3427, 21.3974



21.4775, 38.4876, 20.9317



2.1459, 3.7693, 2.3262



# Inverse Universe

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



65.1105, 52.2949, 63.1653



61.5103, 46.2869, 56.5137



62.2174, 52.8900, 42.5280



18.3313, 18.1158, 20.3617



23.0589, 11.7129, 8.9606

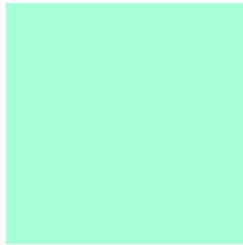


2.2985, 1.1618, 1.1534



# Previews

## White Background



This preview shows how the XYZ color 63.3535, 83.8408, 77.8096 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

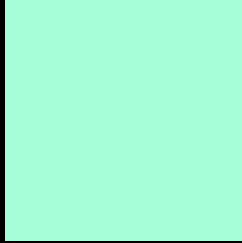
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.3535, 83.8408, 77.8096 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

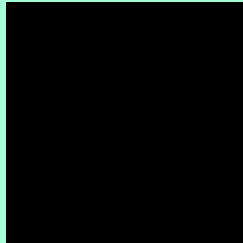
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 63.3535, 83.8408, 77.8096**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.3535, 83.8408, 77.8096.



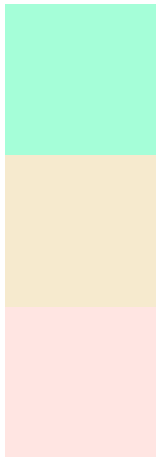
This preview shows how white text looks on a background with the XYZ color 63.3535, 83.8408,

77.8096.

# 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**

63.3535, 83.8408, 77.8096

**Protanopia**

78.5694, 82.8947, 70.2517

**Deuteranopia**

82.9868, 82.7896, 83.5576



## Tritanopia

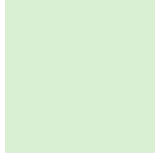
73.8895, 83.1418, 106.7613

# Trichromacy



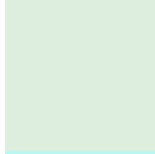
## Original Color

63.3535, 83.8408, 77.8096



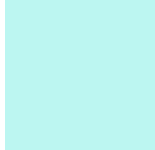
## Protanomaly

71.7034, 82.3155, 73.0821



## Deuteranomaly

73.8836, 81.9526, 81.0316



## Tritanomaly

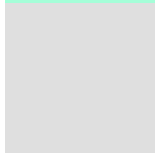
69.5720, 82.9538, 95.5639

# Monochromacy



## Original Color

63.3535, 83.8408, 77.8096



## Achromatopsia

70.1384, 73.7910, 80.3584



## Achromatomaly

66.6982, 76.5695, 78.9742

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.3535, 83.8408, 77.8096 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(165, 254, 216)` looks like.

```
.text, #text, p{  
    color:rgb(165, 254, 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(165, 254, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 254, 216) }
```

## Border

The CSS property to change the border of an element to XYZ 63.3535, 83.8408, 77.8096 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(165, 254, 216) }
```



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

```
.border{ border-color:rgb(165, 254, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 254, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 254, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 254, 216);  
box-shadow:4px 4px 4px 4px rgb(165, 254,  
216) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.3535, 83.8408, 77.8096 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 254, 216) }
```

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

```
.background{ background-color: rgb(165,  
254, 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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