

# Converting Colors

XYZ(63.1110, 83.9781, 87.3795)

Have a look what the booklet for  
XYZ(63.1110, 83.9781, 87.3795)  
contains.

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# Color

**XYZ(63.1798, 84.0055,  
87.7477)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99FFE6
RGB	153, 255, 230
RGB Percent	60%, 100%, 90%
CMY	0.4000, 0.0000, 0.0980
CMYK	0.40, 0.00, 0.10, 0.00
HSL	165°, 100%, 80%
HSV	165°, 40%, 100%
XYZ	63.1798, 84.0055, 87.7477
YIQ	221.6520, -52.7670, -29.3990

# Conversions

## Conversions Part 2

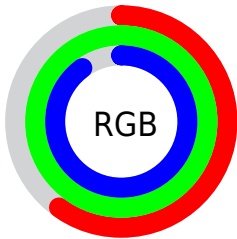
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 211, 255
Decimal	10092518
CIELab	93.45, -35.41, 2.59
CIElCh	93, 35.510, 175.811
Yxy	84.0055, 0.2689, 0.3576
Android (android.graphics.Color)	4288282598 (0xFF99FFE6)
YUV	221.6520, 4.1156, -60.2078
Hunter-Lab	91.6545, -37.3508, 7.3954

# Details

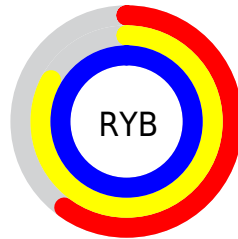
The XYZ color **63.1798, 84.0055, 87.7477** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **60.6678, 47.2580, 48.0444**, and the grayscale version is **69.1843, 72.7873, 79.2653**.

A 20% lighter version of the original color is **80.6740, 92.5889, 108.2272**, and **32.7558, 45.9701, 47.7041** is the 20% darker color. If you saturate the color by 10%, you get **58.0085, 81.4392, 83.0069**, and if you desaturate by 10%, it is **69.4127, 87.1154, 92.7052**.

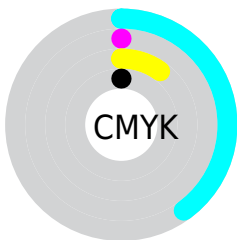
# Distribution



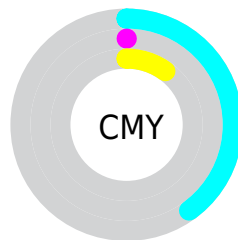
- Red (60%)
- Green (100%)
- Blue (90%)



- Red (60%)
- Yellow (83%)
- Blue (100%)



- Cyan (40%)
- Magenta (0%)
- Yellow (10%)
- Black (0%)




- Cyan (40%)
- Magenta (0%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.1798, 84.0055, 87.7477 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 63.1798, 84.0055, 87.7477 by changing the saturation by 10% instead.




 63.1798, 84.0055,  
87.7477


 63.1798, 84.0055,  
87.7477

425.8710,  
508.3315, 541.0565

 46.2459, 63.0200,  
65.5510


 108.5092,  
138.9829, 146.1139

 32.6453, 45.8574,  
47.4538


 137.6354,  
173.7435, 183.1205

 22.0128, 32.1333,  
33.0376


171.5564,  
213.8646, 225.9007

 13.9830, 21.4633,  
21.8839

210.6376,  
259.7307, 274.8733

 8.1904, 13.4631,  
13.5741

255.2443,  
311.7260, 330.4566

 4.2699, 7.7482,  
7.6897

305.7419,

 1.8559, 3.9343,

370.2349, 393.0692

3.8121

362.4957,  
435.6420, 463.1296

■ 0.5510, 1.6369,  
1.5229

■ 0.0000, 0.3823,  
0.2349

■ 63.1798, 84.0055,  
87.7477

■ 63.1798, 84.0055,  
87.7477

■ 58.0085, 81.4392,  
83.0069

■ 69.4127, 87.1154,  
92.7052

■ 53.8297, 79.3809,  
78.4738

■ 76.7652, 90.7988,  
97.8797

■ 50.5702, 77.7930,  
74.1445

■ 85.2940, 95.0850,  
103.2769

■ 48.1452, 76.6318,  
70.0135

95.0500, 100.0000,  
108.9000

■ 46.4536, 75.8452,  
66.0740

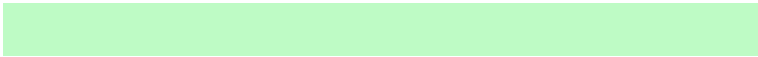
■ 45.3304, 75.3482,  
62.3168

■ 45.3303, 75.3481,  
62.3163

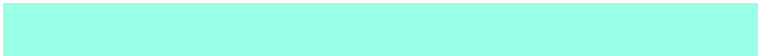
# Harmonies

## Analogous

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



65.8405, 84.0055, 65.4132



63.1798, 84.0055, 87.7477



64.6892, 84.0055, 115.8416

# Triad

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



63.1798, 84.0055, 87.7477



87.9547, 84.0055, 146.2688



90.4102, 84.0055, 55.0598

# Complementary

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



63.1798, 84.0055, 87.7477



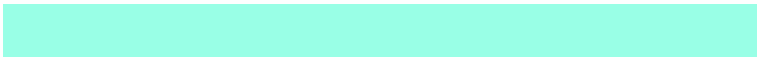
60.6678, 47.2580, 48.0444

# 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.



97.1997, 84.0055, 70.7777



63.1798, 84.0055, 87.7477



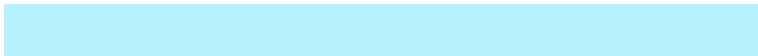
95.7059, 84.0055, 123.6580

# Square

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



63.1798, 84.0055, 87.7477



78.5350, 84.0055, 153.2322



99.2091, 84.0055, 95.2914

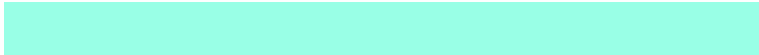


81.1689, 84.0055, 49.0312



# Rectangle

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



63.1798, 84.0055, 87.7477



67.9257, 84.0055, 133.7116



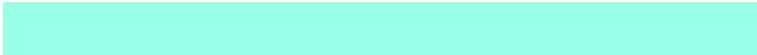
99.2091, 84.0055, 95.2914



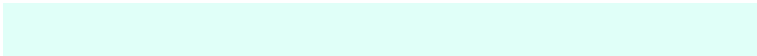
93.0823, 84.0055, 59.2147

# Sweetspot

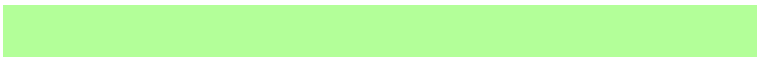
The Sweet Spot groups the original color and five complimentary colors.



63.1807, 84.0059, 87.7491



83.4904, 94.1776, 102.1787



59.9857, 83.3445, 43.0640



17.6240, 20.0340, 21.7181



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

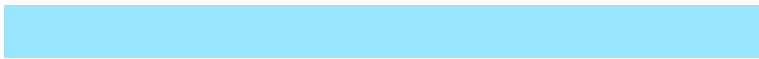
The Same Dimension uses a secret algorithm to generate beautiful new colors.



63.1807, 84.0059, 87.7491



58.9606, 81.9104, 83.9379



59.3456, 70.3088, 105.0509



18.3534, 20.4009, 22.1638



23.7483, 39.3959, 32.8894



2.3554, 3.8531, 3.4295



# Inverse Universe

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



60.6678, 47.2580, 48.0444



56.1478, 40.5557, 39.3308



63.0106, 55.6011, 37.5495



18.1919, 18.0601, 19.6277



22.0593, 11.3130, 3.6969

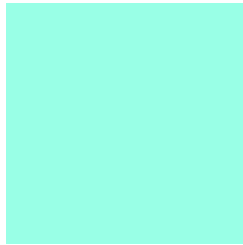


2.1889, 1.1179, 0.5760



# Previews

## White Background



This preview shows how the XYZ color 63.1798, 84.0055, 87.7477 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

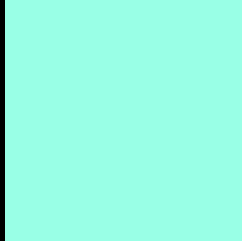
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.1798, 84.0055, 87.7477 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

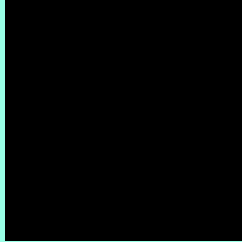
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 63.1798, 84.0055, 87.7477**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.1798, 84.0055, 87.7477.



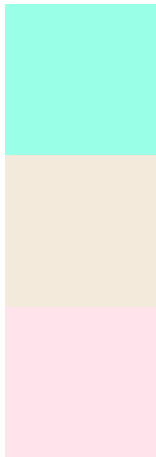
This preview shows how white text looks on a background with the XYZ color 63.1798, 84.0055,



# 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

63.1798, 84.0055, 87.7477

### Protanopia

79.1711, 83.0148, 78.8685

### Deuteranopia

84.1237, 82.8029, 90.9056



## Tritanopia

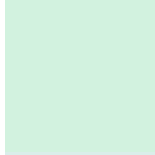
73.3893, 83.3270, 106.8234

# Trichromacy



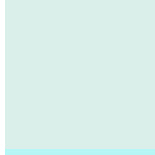
## Original Color

63.1798, 84.0055, 87.7477



## Protanomaly

71.6498, 82.5336, 81.9663



## Deuteranomaly

74.3393, 81.9950, 89.7504



## Tritanomaly

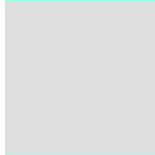
69.1867, 83.1204, 99.5861

# Monochromacy



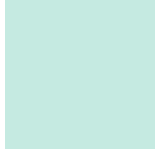
## Original Color

63.1798, 84.0055, 87.7477



## Achromatopsia

69.4303, 73.0461, 79.5472



## Achromatomaly

66.0394, 76.1522, 82.4524

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.1798, 84.0055, 87.7477 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(153, 255, 230)` looks like.

```
.text, #text, p{  
    color:rgb(153, 255, 230)  
}
```

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(153, 255, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 255, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 63.1798, 84.0055, 87.7477 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(153, 255, 230) }
```



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

```
.border{ border-color:rgb(153, 255, 230) }
```

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

Here you see how a box with a 4 pixel rgb(153, 255, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 255, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 255, 230);  
box-shadow:4px 4px 4px 4px rgb(153, 255,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.1798, 84.0055, 87.7477 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 255, 230) }
```

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

```
.background{ background-color: rgb(153,  
255, 230) }
```

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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