

# Converting Colors

XYZ(64.6378, 84.7109, 89.9020)

Have a look what the booklet for  
XYZ(64.6378, 84.7109, 89.9020)  
contains.

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# Color

**XYZ(64.5685, 84.6723,  
90.0311)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9EFFE9
RGB	158, 255, 233
RGB Percent	62%, 100%, 91%
CMY	0.3804, 0.0000, 0.0863
CMYK	0.38, 0.00, 0.09, 0.00
HSL	166°, 100%, 81%
HSV	166°, 38%, 100%
XYZ	64.5685, 84.6723, 90.0311
YIQ	223.4890, -50.7500, -27.4060

# Conversions

## Conversions Part 2

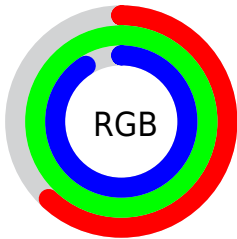
<b>Format</b>	<b>Color</b>
<b>RYB</b>	158, 213, 255
Decimal	10420201
CIELab	93.74, -33.49, 1.49
CIELCh	94, 33.519, 177.450
Yxy	84.6723, 0.2699, 0.3539
Android (android.graphics.Color)	4288610281 (0xFF9EFFE9)
YUV	223.4890, 4.6889, -57.4339
Hunter-Lab	92.0176, -35.7777, 6.4022

# Details

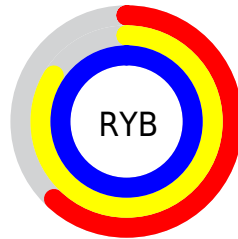
The XYZ color **64.5685, 84.6723, 90.0311** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **61.7057, 49.0101, 49.3883**, and the grayscale version is **70.4806, 74.1510, 80.7505**.

A 20% lighter version of the original color is **82.1289, 93.3389, 108.2953**, and **33.4967, 46.3292, 48.7719** is the 20% darker color. If you saturate the color by 10%, you get **59.2499, 82.0243, 85.5409**, and if you desaturate by 10%, it is **70.9566, 87.8684, 94.7155**.

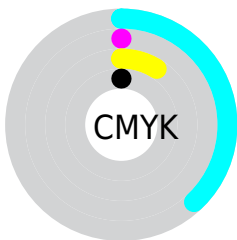
# Distribution



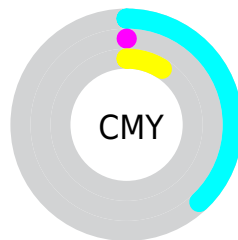
- Red (62%)
- Green (100%)
- Blue (91%)



- Red (62%)
- Yellow (84%)
- Blue (100%)



- Cyan (38%)
- Magenta (0%)
- Yellow (9%)
- Black (0%)




- Cyan (38%)
- Magenta (0%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.5685, 84.6723, 90.0311 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 64.5685, 84.6723, 90.0311 by changing the saturation by 10% instead.




 64.5685, 84.6723,  
90.0311


 64.5685, 84.6723,  
90.0311


430.8095,  
510.5431, 548.7047

 47.3747, 63.5706,  
67.4326


 110.4984,  
139.9152, 149.3175

 33.5411, 46.3030,  
48.9724


 139.9653,  
174.8253, 186.8424

 22.7025, 32.4850,  
34.2322


174.2538,  
215.1070, 230.1799

 14.4935, 21.7322,  
22.7932

213.7294,  
261.1446, 279.7485

 8.5487, 13.6603,  
14.2370

258.7574,  
313.3227, 335.9668

 4.5027, 7.8848,  
8.1451

309.7032,

 1.9903, 4.0213,

372.0255, 399.2532

4.0988

366.9321,  
437.6375, 470.0263

■ 0.6285, 1.6855,  
1.6797

■ 0.0000, 0.4142,  
0.3468

■ 64.5685, 84.6723,  
90.0311

■ 64.5685, 84.6723,  
90.0311

■ 59.2499, 82.0243,  
85.5409

■ 70.9566, 87.8684,  
94.7155

■ 54.9330, 79.8897,  
81.2363

■ 78.4710, 91.6420,  
99.5939

■ 51.5464, 78.2315,  
77.1138

■ 87.1676, 96.0219,  
104.6716

■ 49.0076, 77.0075,  
73.1683

95.0500, 100.0000,  
108.9000

■ 47.2196, 76.1674,  
69.3939

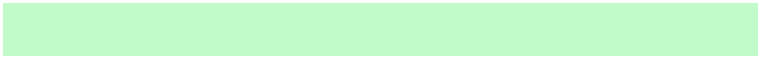
■ 46.0506, 75.6435,  
65.7829

■ 45.8573, 75.5589,  
65.0918

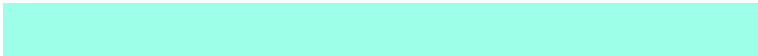
# Harmonies

## Analogous

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



66.9017, 84.6723, 68.2647



64.5685, 84.6723, 90.0311



66.2311, 84.6723, 116.6748

# Triad

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



64.5685, 84.6723, 90.0311



88.6254, 84.6723, 142.8677



90.0387, 84.6723, 56.7534

# Complementary

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



64.5685, 84.6723, 90.0311



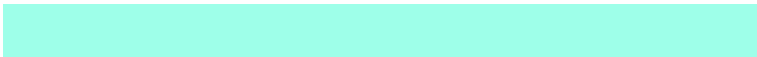
61.7057, 49.0101, 49.3883

# 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.



96.6353, 84.6723, 71.4016



64.5685, 84.6723, 90.0311



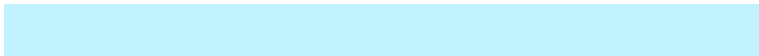
95.7780, 84.6723, 121.1481

# Square

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



64.5685, 84.6723, 90.0311



79.7198, 84.6723, 150.3158



98.8083, 84.6723, 94.3907

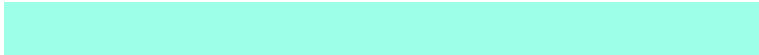


81.2420, 84.6723, 51.3971



# Rectangle

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



64.5685, 84.6723, 90.0311



69.4549, 84.6723, 133.2048



98.8083, 84.6723, 94.3907



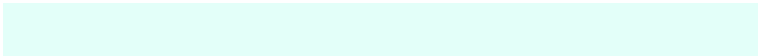
92.6109, 84.6723, 60.6040

# Sweetspot

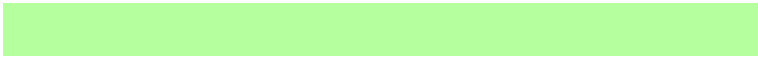
The Sweet Spot groups the original color and five complimentary colors.



64.5694, 84.6727, 90.0325



84.4653, 94.6598, 103.1466



60.9026, 83.7685, 45.3082



17.8219, 20.1316, 21.9295



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

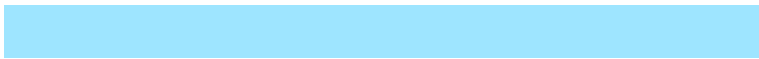
The Same Dimension uses a secret algorithm to generate beautiful new colors.



64.5694, 84.6727, 90.0325



60.2505, 82.5213, 86.4410



60.2076, 70.6023, 105.0621



18.3682, 20.4068, 22.2419



24.0209, 39.5049, 34.3248



2.3799, 3.8629, 3.5583



# Inverse Universe

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



61.7057, 49.0101, 49.3883



57.0137, 42.0423, 40.3754



64.5251, 57.9553, 40.1348



18.1781, 18.0545, 19.5549



21.9917, 11.2860, 3.3409

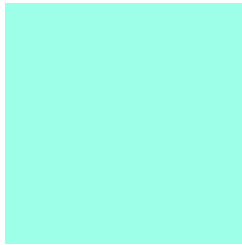


2.1805, 1.1146, 0.5322



# Previews

## White Background



This preview shows how the XYZ color 64.5685, 84.6723, 90.0311 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

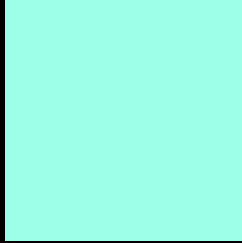
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.5685, 84.6723, 90.0311 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

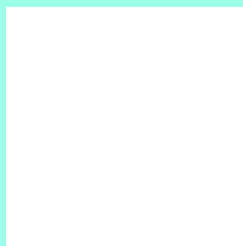
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 64.5685, 84.6723, 90.0311**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.5685, 84.6723, 90.0311.



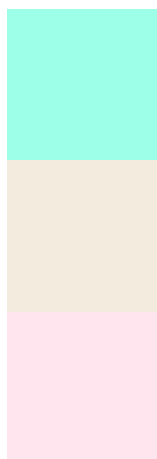
This preview shows how white text looks on a background with the XYZ color 64.5685, 84.6723,



# 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

64.5685, 84.6723, 90.0311

### Protanopia

79.8553, 83.7453, 81.0629

### Deuteranopia

84.6919, 83.4717, 92.5368



## Tritanopia

74.4577, 83.8777, 106.8734

# Trichromacy



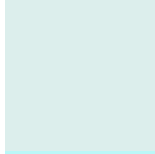
## Original Color

64.5685, 84.6723, 90.0311



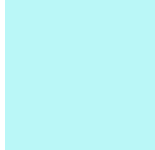
## Protanomaly

72.6310, 82.9923, 84.1426



## Deuteranomaly

75.2301, 82.4208, 91.3006



## Tritanomaly

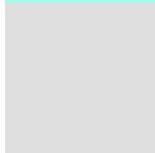
70.2990, 83.6760, 100.4416

# Monochromacy



## Original Color

64.5685, 84.6723, 90.0311



## Achromatopsia

70.1384, 73.7910, 80.3584



## Achromatomaly

67.1266, 77.1048, 84.0178

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.5685, 84.6723, 90.0311 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(158, 255, 233)` looks like.

```
.text, #text, p{  
    color:rgb(158, 255, 233)  
}
```

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(158, 255, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 255, 233) }
```

## Border

The CSS property to change the border of an element to XYZ 64.5685, 84.6723, 90.0311 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(158, 255, 233) }
```



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

```
.border{ border-color:rgb(158, 255, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(158, 255, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 255, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 255, 233);  
box-shadow:4px 4px 4px 4px rgb(158, 255,  
233) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.5685, 84.6723, 90.0311 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 255, 233) }
```

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

```
.background{ background-color: rgb(158,  
255, 233) }
```

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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