

# Converting Colors

XYZ(64.1599, 72.0139,  
105.1262)

Have a look what the booklet for  
XYZ(64.1599, 72.0139, 105.1262)  
contains.

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# **Color**

**XYZ(64.3838, 72.2905,  
105.1678)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B3E4FF
RGB	179, 228, 255
RGB Percent	70%, 89%, 100%
CMY	0.2980, 0.1059, 0.0000
CMYK	0.30, 0.11, 0.00, 0.00
HSL	201°, 100%, 85%
HSV	201°, 30%, 100%
XYZ	64.3838, 72.2905, 105.1678
YIQ	216.4270, -37.8710, -1.9910

# Conversions

## Conversions Part 2

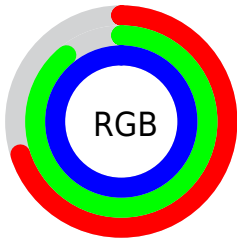
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	179, 209, 255
Decimal	11789567
CIE Lab	88.11, -9.62, -18.20
CIE LCh	88, 20.589, 242.136
Yxy	72.2905, 0.2662, 0.2989
Android (android.graphics.Color)	4289979647 (0xFFB3E4FF)
YUV	216.4270, 19.0165, -32.8235
Hunter-Lab	85.0238, -13.6236, -13.8204

# Details

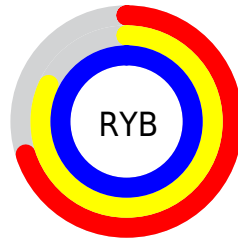
The XYZ color **64.3838, 72.2905, 105.1678** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **71.4481, 68.6570, 52.1361**, and the grayscale version is **65.4559, 68.8647, 74.9937**.

A 20% lighter version of the original color is **88.4021, 96.5729, 108.5889**, and **33.4488, 38.2494, 59.0460** is the 20% darker color. If you saturate the color by 10%, you get **56.5996, 64.6763, 104.1084**, and if you desaturate by 10%, it is **73.3923, 80.7332, 106.3226**.

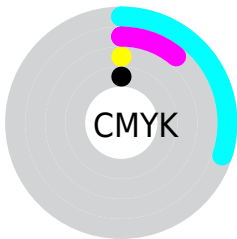
# Distribution



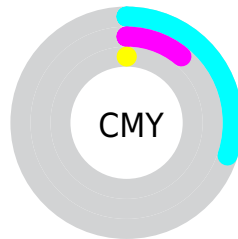
- Red (70%)
- Green (89%)
- Blue (100%)



- Red (70%)
- Yellow (82%)
- Blue (100%)



- Cyan (30%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (30%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.3838, 72.2905, 105.1678 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 64.3838, 72.2905, 105.1678 by changing the saturation by 10% instead.



64.3838, 72.2905,  
105.1678

64.3838, 72.2905,  
105.1678

430.1546,  
468.5521, 598.0247

47.2244, 53.3960,  
79.9825

110.2341,  
122.4695, 170.3546

33.4218, 38.1190,  
59.1779

139.6558,  
154.5227, 211.1931

22.6106, 26.0751,  
42.3354

173.8957,  
191.7310, 258.0865

14.4253, 16.8798,  
29.0365

213.3190,  
234.4788, 311.4532

8.5007, 10.1488,  
18.8626

258.2912,  
283.1504, 371.7119

4.4715, 5.4977,  
11.3952

309.1776,

1.9722, 2.5422,

338.1302, 439.2810

6.2158

366.3437,  
399.8026, 514.5791

■ 0.6183, 0.8977,  
2.9058

■ 0.0000, 0.0000,  
1.0468

■ 64.3838, 72.2905,  
105.1678

■ 64.3838, 72.2905,  
105.1678

■ 56.5996, 64.6763,  
104.1084

■ 73.3923, 80.7332,  
106.3226

■ 49.9715, 57.8473,  
103.1396

■ 83.6767, 90.0285,  
107.5748

■ 44.4337, 51.7682,  
102.2581

95.0500, 100.0000,  
108.9000

■ 39.9104, 46.3969,  
101.4597

■ 36.3152, 41.6858,  
100.7399

■ 33.5456, 37.5787,  
100.0931

■ 31.4389, 33.9884,  
99.5111

■ 31.4004, 33.9208,  
99.5001

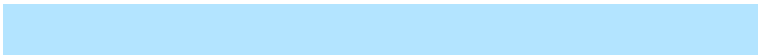
# Harmonies

## Analogous

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



61.0085, 72.2905, 94.0168



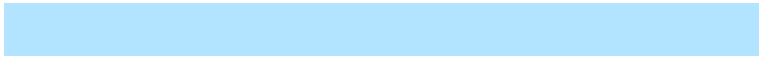
64.3838, 72.2905, 105.1678



69.0630, 72.2905, 109.0002

# Triad

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



64.3838, 72.2905, 105.1678



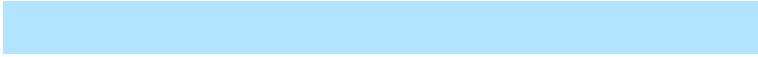
78.6009, 72.2905, 77.7069



63.8010, 72.2905, 57.9317

# Complementary

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



64.3838, 72.2905, 105.1678



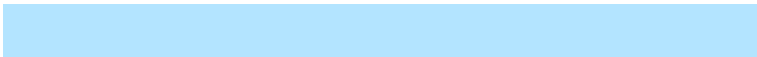
71.4481, 68.6570, 52.1361

# 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.



68.3581, 72.2905, 54.6290



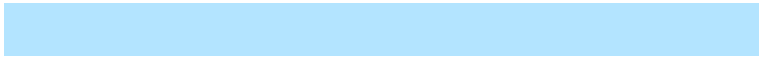
64.3838, 72.2905, 105.1678



77.0337, 72.2905, 65.1655

# Square

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



64.3838, 72.2905, 105.1678



77.4147, 72.2905, 92.0622



73.2257, 72.2905, 57.1127

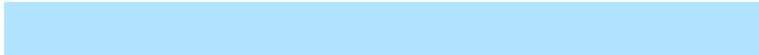


60.6834, 72.2905, 66.7193



# Rectangle

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



64.3838, 72.2905, 105.1678



72.3356, 72.2905, 106.5617



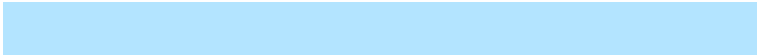
73.2257, 72.2905, 57.1127



65.2075, 72.2905, 56.1940

# Sweetspot

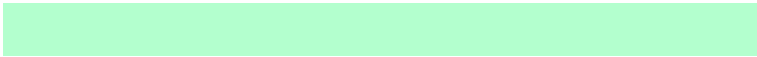
The Sweet Spot groups the original color and five complimentary colors.



64.3858, 72.2933, 105.1682



84.5591, 90.8125, 107.6796



65.4435, 85.5410, 71.2013



17.7581, 19.1343, 23.0073



0.0000, 0.0000, 0.0000

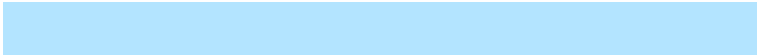


20.3446, 21.4041, 23.3091

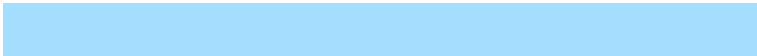


# Same Dimension

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



64.3858, 72.2933, 105.1682



59.4204, 67.4779, 104.5005



55.1421, 53.8058, 102.0870



17.9802, 19.3320, 23.0337



16.5534, 18.0165, 52.0396



1.7149, 1.9604, 5.1013



# Inverse Universe

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



71.3650, 59.1033, 81.0486



67.6100, 52.8204, 76.0139



81.6076, 88.9760, 55.5226



18.5026, 18.1844, 21.2641



25.1436, 12.5467, 19.9385

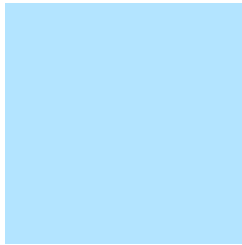


2.5002, 1.2425, 2.2154



# Previews

## White Background



This preview shows how the XYZ color 64.3838, 72.2905, 105.1678 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

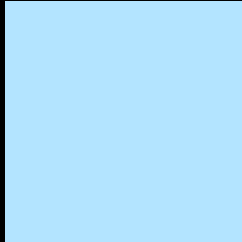
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.3838, 72.2905, 105.1678 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 64.3838, 72.2905, 105.1678

## Background



This preview shows how black text looks on a background with the XYZ color 64.3838, 72.2905, 105.1678.



This preview shows how white text looks on a background with the XYZ color 64.3838, 72.2905,



# 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

64.3838, 72.2905, 105.1678

### Protanopia

70.7493, 72.1015, 99.8106

### Deuteranopia

73.3463, 72.1790, 104.6739



## Tritanopia

63.0941, 72.1630, 99.4104

# Trichromacy



## Original Color

64.3838, 72.2905, 105.1678

## Protanomaly

68.1625, 71.9041, 101.5531

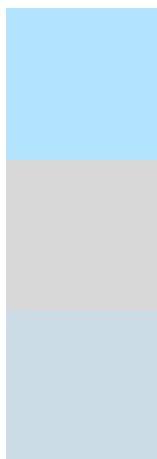
## Deuteranomaly

69.6556, 71.8163, 104.7984

## Tritanomaly

63.7920, 72.4686, 101.8924

# Monochromacy



## Original Color

64.3838, 72.2905, 105.1678

## Achromatopsia

65.2694, 68.6685, 74.7800

## Achromatomaly

64.5047, 69.5961, 84.8965

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.3838, 72.2905, 105.1678 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(179, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(179, 228, 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(179, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 228, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 64.3838, 72.2905, 105.1678 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(179, 228, 255) }
```



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

```
.border{ border-color:rgb(179, 228, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(179, 228, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(179, 228, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(179, 228, 255);  
box-shadow:4px 4px 4px 4px rgb(179, 228,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.3838, 72.2905, 105.1678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 228, 255) }
```

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

```
.background{ background-color: rgb(179,  
228, 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](#).

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