

# Converting Colors

XYZ(68.6050, 72.0653,  
107.9708)

Have a look what the booklet for  
XYZ(68.6050, 72.0653, 107.9708)  
contains.

<b>XYZ(67.9907, 71.7419, 104.8718)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(67.9907, 71.7419,  
104.8718)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C8DEFF
RGB	200, 222, 255
RGB Percent	78%, 87%, 100%
CMY	0.2157, 0.1294, 0.0000
CMYK	0.22, 0.13, 0.00, 0.00
HSL	216°, 100%, 89%
HSV	216°, 22%, 100%
XYZ	67.9907, 71.7419, 104.8718
YIQ	219.1840, -23.7050, 5.5990

# Conversions

## Conversions Part 2

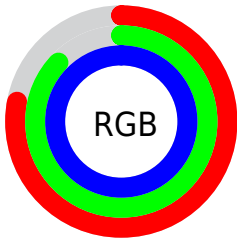
Format	Color
R <sub>YB</sub>	200, 216, 255
Decimal	13164287
CIE Lab	87.84, -0.43, -18.47
CIE LCh	88, 18.477, 268.656
Yxy	71.7419, 0.2780, 0.2933
Android (android.graphics.Color)	4291354367 (0xFFC8DEFF)
YUV	219.1840, 17.6573, -16.8244
Hunter-Lab	84.7006, -4.9408, -14.1193

# Details

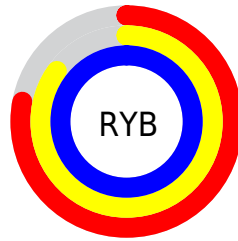
The XYZ color **67.9907, 71.7419, 104.8718** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **80.8041, 83.7072, 66.5436**, and the grayscale version is **67.3544, 70.8621, 77.1688**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **35.6888, 37.7344, 58.8285** is the 20% darker color. If you saturate the color by 10%, you get **57.8594, 60.7598, 103.2860**, and if you desaturate by 10%, it is **79.6304, 84.0526, 106.6345**.

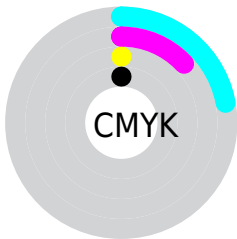
# Distribution



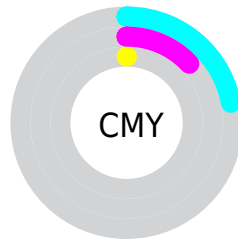
- Red (78%)
- Green (87%)
- Blue (100%)



- Red (78%)
- Yellow (85%)
- Blue (100%)



- Cyan (22%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)



- Cyan (22%)
- Magenta (13%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.9907, 71.7419, 104.8718 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 67.9907, 71.7419, 104.8718 by changing the saturation by 10% instead.



■ 67.9907, 71.7419,  
104.8718

■ 67.9907, 71.7419,  
104.8718

442.8403,  
466.6428, 597.0813

■ 50.1638, 52.9479,  
79.7359

115.3808,  
121.6895, 169.9462

■ 35.7619, 37.7612,  
58.9762

145.6748,  
153.6119, 210.7219

■ 24.4196, 25.7974,  
42.1740

180.8551,  
190.6791, 257.5478

■ 15.7716, 16.6721,  
28.9110

221.2872,  
233.2757, 310.8426

■ 9.4525, 10.0010,  
18.7685

267.3364,  
281.7859, 371.0248

■ 5.0970, 5.3996,  
11.3280

319.3681,

■ 2.3396, 2.4836,

336.5943, 438.5130

6.1710

377.7476,  
398.0851, 513.7256

■ 0.8148, 0.8684,  
2.8789

■ 0.0000, 0.0000,  
1.0331

■ 67.9907, 71.7419,  
104.8718

■ 67.9907, 71.7419,  
104.8718

■ 57.8594, 60.7598,  
103.2860

■ 79.6304, 84.0526,  
106.6345

■ 49.1647, 51.0493,  
101.8700

■ 92.8345, 97.7293,  
108.5785

■ 41.8371, 42.5613,  
100.6179

■ 95.0500, 100.0000,  
108.9000

■ 35.7990, 35.2401,  
99.5230

■ 30.9638, 29.0245,  
98.5781

■ 27.2333, 23.8462,  
97.7752

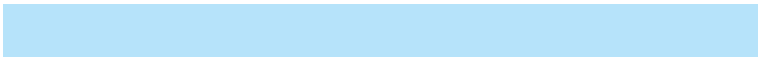
■ 24.4909, 19.6267,  
97.1053

■ 22.8026, 16.7253,  
96.6342

# Harmonies

## Analogous

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



63.8897, 71.7419, 100.6429



67.9907, 71.7419, 104.8718



72.3187, 71.7419, 101.3159

# Triad

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



67.9907, 71.7419, 104.8718



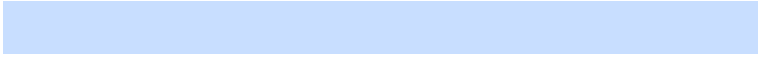
75.8701, 71.7419, 67.0818



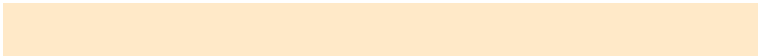
61.2279, 71.7419, 66.1983

# Complementary

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



67.9907, 71.7419, 104.8718



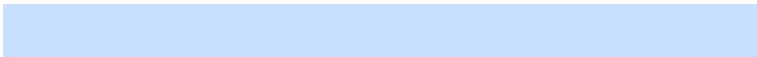
80.8041, 83.7072, 66.5436

# 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.



64.2187, 71.7419, 58.7570



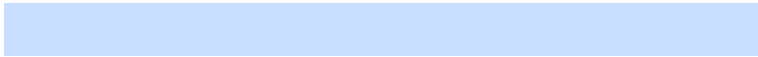
67.9907, 71.7419, 104.8718



72.6760, 71.7419, 59.2273

# Square

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



67.9907, 71.7419, 104.8718



76.9836, 71.7419, 78.6832



68.3867, 71.7419, 56.3463



60.0902, 71.7419, 77.5490



# Rectangle

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



67.9907, 71.7419, 104.8718



74.7266, 71.7419, 95.2036



68.3867, 71.7419, 56.3463



62.0434, 71.7419, 63.2039

# Sweetspot

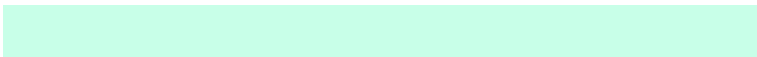
The Sweet Spot groups the original color and five complimentary colors.



67.9927, 71.7447, 104.8723



86.7847, 91.4954, 107.6941



74.1577, 89.6308, 89.7989



18.3904, 19.3921, 23.0237



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.



67.9927, 71.7447, 104.8723



63.3193, 66.7152, 104.1478



63.7677, 61.4502, 103.1079



17.5994, 18.5703, 22.9068



12.0512, 9.0120, 50.5389



1.2768, 1.0843, 4.9553



# Inverse Universe

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



75.0804, 67.8441, 78.2485



71.6676, 62.4440, 72.7162



85.7596, 96.0914, 68.6728



18.3104, 18.1075, 20.2518



22.8711, 11.6377, 7.9716

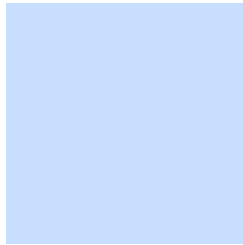


2.2791, 1.1540, 1.0510



# Previews

## White Background



This preview shows how the XYZ color 67.9907, 71.7419, 104.8718 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

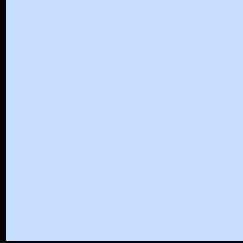
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.9907, 71.7419, 104.8718 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

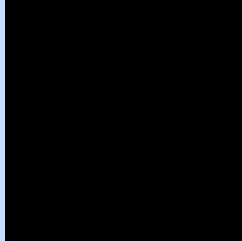
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

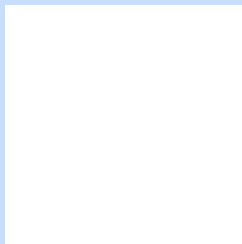
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 67.9907, 71.7419, 104.8718

## Background



This preview shows how black text looks on a background with the XYZ color 67.9907, 71.7419, 104.8718.



This preview shows how white text looks on a background with the XYZ color 67.9907, 71.7419,



# 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

67.9907, 71.7419, 104.8718

### Protanopia

70.5326, 71.5308, 103.0179

### Deuteranopia

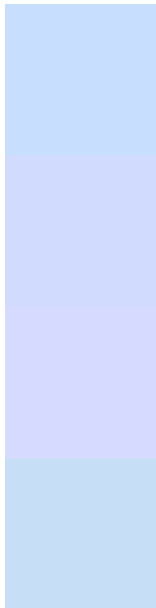
73.0909, 71.6682, 104.5888



## Tritanopia

65.7086, 71.5924, 94.3599

# Trichromacy



## Original Color

67.9907, 71.7419, 104.8718

## Protanomaly

69.5154, 71.3741, 103.8787

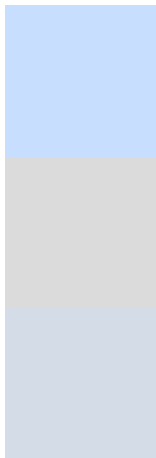
## Deuteranomaly

71.1457, 71.8099, 104.7187

## Tritanomaly

66.4649, 71.4965, 98.2928

# Monochromacy



## Original Color

67.9907, 71.7419, 104.8718

## Achromatopsia

67.3311, 70.8376, 77.1421

## Achromatomaly

67.3101, 71.0096, 86.5025

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.9907, 71.7419, 104.8718 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(200, 222, 255)` looks like.

```
.text, #text, p{  
    color:rgb(200, 222, 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(200, 222, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 222, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 67.9907, 71.7419, 104.8718 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(200, 222, 255) }
```



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

```
.border{ border-color:rgb(200, 222, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 222, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 222, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 222, 255);  
box-shadow:4px 4px 4px 4px rgb(200, 222,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.9907, 71.7419, 104.8718 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 222, 255) }
```

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

```
.background{ background-color: rgb(200,  
222, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor