

# Converting Colors

XYZ(50.0167, 58.0498,  
103.1763)

Have a look what the booklet for  
XYZ(50.0167, 58.0498, 103.1763)  
contains.

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# Color

**XYZ(49.9987, 57.9024,  
103.1488)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80D2FF
RGB	128, 210, 255
RGB Percent	50%, 82%, 100%
CMY	0.4980, 0.1765, 0.0000
CMYK	0.50, 0.18, 0.00, 0.00
HSL	201°, 100%, 75%
HSV	201°, 50%, 100%
XYZ	49.9987, 57.9024, 103.1488
YIQ	190.6120, -63.3170, -3.3890

# Conversions

## Conversions Part 2

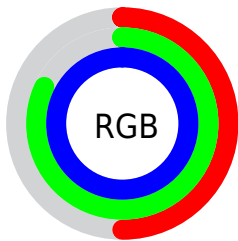
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	128, 178, 255
Decimal	8442623
CIE Lab	80.68, -13.12, -29.73
CIE LCh	81, 32.494, 246.187
Yxy	57.9024, 0.2369, 0.2744
Android (android.graphics.Color)	4286632703 (0xFF80D2FF)
YUV	190.6120, 31.7433, -54.9107
Hunter-Lab	76.0936, -15.8772, -27.1051

# Details

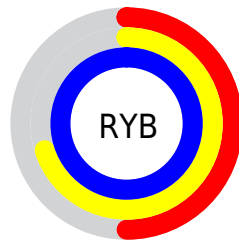
The XYZ color **49.9987, 57.9024, 103.1488** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **60.0808, 52.7068, 27.4310**, and the grayscale version is **49.1468, 51.7063, 56.3082**.

A 20% lighter version of the original color is **74.3035, 89.3048, 107.9291**, and **24.3962, 29.0474, 57.7470** is the 20% darker color. If you saturate the color by 10%, you get **44.4662, 51.8329, 102.2689**, and if you desaturate by 10%, it is **56.6241, 64.7248, 104.1165**.

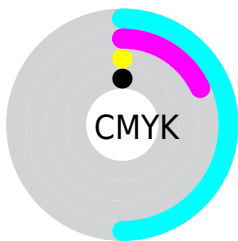
# Distribution



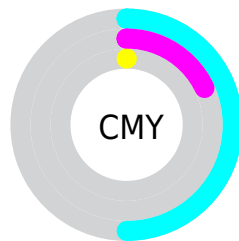
- Red (50%)
- Green (82%)
- Blue (100%)



- Red (50%)
- Yellow (70%)
- Blue (100%)



- Cyan (50%)
- Magenta (18%)
- Yellow (0%)
- Black (0%)



- Cyan (50%)
- Magenta (18%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9987, 57.9024, 103.1488 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 49.9987, 57.9024, 103.1488 by changing the saturation by 10% instead.



■ 49.9987, 57.9024,  
103.1488

■ 49.9987, 57.9024,  
103.1488

377.1129,  
416.8222, 591.5742

■ 35.6302, 41.7302,  
78.3013

■ 89.3648, 101.7807,  
167.5672

■ 24.3175, 28.8901,  
57.8036

■ 115.0930,  
130.2556, 207.9751

■ 15.6953, 18.9977,  
41.2371

■ 145.3386,  
163.6002, 254.4070

■ 9.3983, 11.6686,  
28.1833

180.4667,  
202.1989, 307.2814

■ 5.0610, 6.5184,  
18.2237

220.8429,  
246.4360, 367.0167

■ 2.3183, 3.1628,  
10.9396

266.8324,

■ 0.8040, 1.2173,

296.6960, 434.0316

5.9126

318.8006,  
353.3632, 508.7446

■ 0.0000, 0.0758,  
2.7241

■ 0.0000, 0.0000,  
0.9555

■ 49.9987, 57.9024,  
103.1488

■ 49.9987, 57.9024,  
103.1488

■ 44.4662, 51.8329,  
102.2689

■ 56.6241, 64.7248,  
104.1165

■ 39.9460, 46.4679,  
101.4716

■ 64.4055, 72.3318,  
105.1746

■ 36.3533, 41.7618,  
100.7526

■ 73.4065, 80.7604,  
106.3271

■ 33.5857, 37.6587,  
100.1064

■ 83.6847, 90.0432,  
107.5772

■ 31.4803, 34.0713,  
99.5250

95.0500, 100.0000,  
108.9000

■ 31.4417, 34.0035,  
99.5139

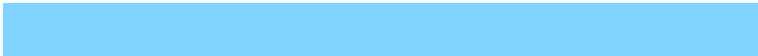
# Harmonies

## Analogous

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



45.2845, 57.9024, 87.4155



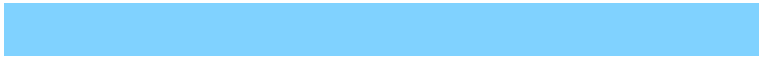
49.9987, 57.9024, 103.1488



56.4336, 57.9024, 107.2621

# Triad

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



49.9987, 57.9024, 103.1488



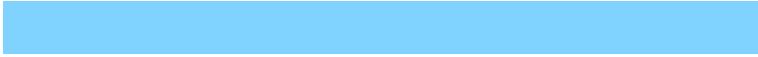
68.8508, 57.9024, 59.1553



47.7782, 57.9024, 37.7253

# Complementary

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



49.9987, 57.9024, 103.1488



60.0808, 52.7068, 27.4310

# 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.



53.6587, 57.9024, 33.0364



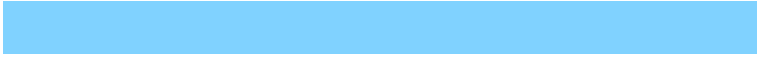
49.9987, 57.9024, 103.1488



66.0922, 57.9024, 43.6869

# Square

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



49.9987, 57.9024, 103.1488



67.6722, 57.9024, 79.1340



60.3976, 57.9024, 34.9735

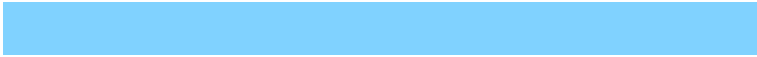


44.0771, 57.9024, 49.3009



# Rectangle

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



49.9987, 57.9024, 103.1488



60.9133, 57.9024, 102.2550



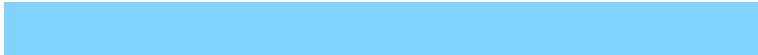
60.3976, 57.9024, 34.9735



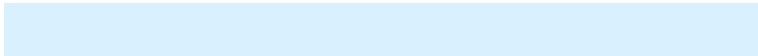
49.5466, 57.9024, 35.4112

# Sweetspot

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



50.0004, 57.9045, 103.1491



78.1789, 85.1091, 106.9150



52.1531, 79.1057, 51.7788



16.2772, 17.8030, 22.8284



0.0000, 0.0000, 0.0000

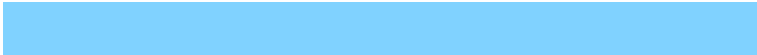


20.3446, 21.4041, 23.3091



# Same Dimension

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



50.0004, 57.9045, 103.1491



44.3669, 51.7197, 102.2523



37.3953, 32.6942, 98.9474



17.9816, 19.3348, 23.0342



16.5749, 18.0594, 52.0468



1.7169, 1.9644, 5.1020



# Inverse Universe

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



60.5932, 41.3532, 65.7633



56.5092, 34.9699, 58.8997



75.1180, 82.7813, 32.4434



18.5034, 18.1847, 21.2679



25.1545, 12.5511, 19.9956

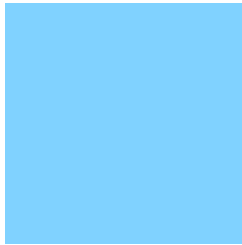


2.5012, 1.2429, 2.2207



# Previews

## White Background



This preview shows how the XYZ color 49.9987, 57.9024, 103.1488 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

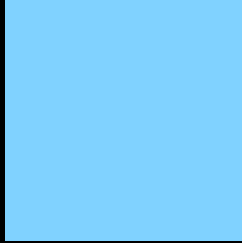
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9987, 57.9024, 103.1488 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

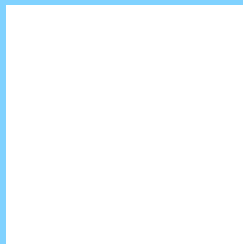
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.9987, 57.9024, 103.1488**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9987, 57.9024, 103.1488.



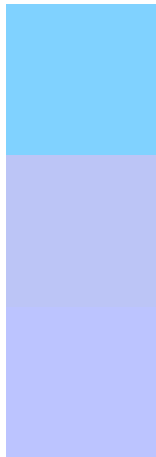
This preview shows how white text looks on a background with the XYZ color 49.9987, 57.9024,



# 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

49.9987, 57.9024, 103.1488

### Protanopia

57.3398, 57.2777, 95.2223

### Deuteranopia

58.5290, 57.3912, 102.6005



## **Tritanopia**

46.2161, 57.8557, 84.3327

# Trichromacy



**Original Color**

49.9987, 57.9024, 103.1488

**Protanomaly**

53.9453, 57.1876, 97.8176

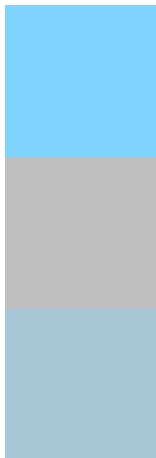
**Deuteranomaly**

54.6625, 57.1003, 102.7482

**Tritanomaly**

47.6908, 58.0907, 91.1371

# Monochromacy



**Original Color**

49.9987, 57.9024, 103.1488

**Achromatopsia**

49.5206, 52.0996, 56.7364

**Achromatomaly**

48.4801, 53.5680, 71.4028

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9987, 57.9024, 103.1488 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(128, 210, 255)` looks like.

```
.text, #text, p{  
    color:rgb(128, 210, 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(128, 210, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 210, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9987, 57.9024, 103.1488 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(128, 210, 255) }
```



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

```
.border{ border-color:rgb(128, 210, 255) }
```

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

Here you see how a box with a 4 pixel rgb(128, 210, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 210, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 210, 255);  
box-shadow:4px 4px 4px 4px rgb(128, 210,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9987, 57.9024, 103.1488 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 210, 255) }
```

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

```
.background{ background-color: rgb(128,  
210, 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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