

# Converting Colors

XYZ(49.8183, 63.4542,  
104.2299)

Have a look what the booklet for  
XYZ(49.8183, 63.4542, 104.2299)  
contains.

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# **Color**

**XYZ(49.9050, 63.6118,  
104.2558)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61E1FF
RGB	97, 225, 255
RGB Percent	38%, 88%, 100%
CMY	0.6196, 0.1176, 0.0000
CMYK	0.62, 0.12, 0.00, 0.00
HSL	191°, 100%, 69%
HSV	191°, 62%, 100%
XYZ	49.9050, 63.6118, 104.2558
YIQ	190.1480, -85.9180, -17.8060

# Conversions

## Conversions Part 2

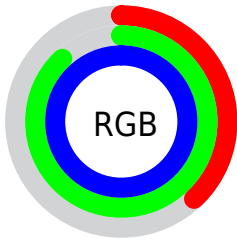
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	97, 168, 255
Decimal	6414847
CIE Lab	83.76, -26.64, -25.12
CIE LCh	84, 36.618, 223.315
Yxy	63.6118, 0.2292, 0.2921
Android (android.graphics.Color)	4284604927 (0xFF61E1FF)
YUV	190.1480, 31.9720, -81.6908
Hunter-Lab	79.7570, -27.8850, -21.6721

# Details

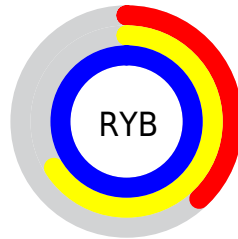
The XYZ color **49.9050, 63.6118, 104.2558** is a light color, and the websafe version is hex **33CCFF**. A complement of this color would be **50.9882, 37.3034, 15.8243**, and the grayscale version is **48.8880, 51.4340, 56.0116**.

A 20% lighter version of the original color is **68.5079, 86.3171, 107.6579**, and **24.3810, 32.4532, 58.4052** is the 20% darker color. If you saturate the color by 10%, you get **46.3217, 59.8503, 103.7186**, and if you desaturate by 10%, it is **54.4019, 67.9021, 104.8469**.

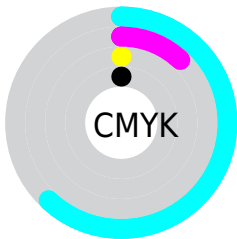
# Distribution



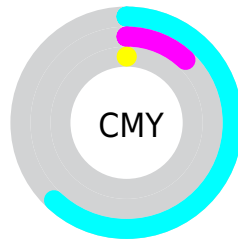
- Red (38%)
- Green (88%)
- Blue (100%)



- Red (38%)
- Yellow (66%)
- Blue (100%)



- Cyan (62%)
- Magenta (12%)
- Yellow (0%)
- Black (0%)



- Cyan (62%)
- Magenta (12%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9050, 63.6118, 104.2558 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 49.9050, 63.6118, 104.2558 by changing the saturation by 10% instead.



49.9050, 63.6118,  
104.2558

49.9050, 63.6118,  
104.2558

376.7525,  
437.7864, 595.1155

35.5554, 46.3363,  
79.2228

89.2268, 110.0517,  
169.0961

24.2595, 32.5113,  
58.5566

114.9297,  
139.9849, 209.7406

15.6520, 21.7523,  
41.8387

145.1477,  
174.9061, 256.4260

9.3675, 13.6750,  
28.6504

180.2462,  
215.1997, 309.5708

5.0407, 7.8950,  
18.5732

220.5906,  
261.2502, 369.5936

2.3062, 4.0278,  
11.1886

266.5462,

0.7978, 1.6891,

313.4419, 436.9130

6.0781

318.4784,  
372.1592, 511.9474

■ 0.0000, 0.4166,  
2.8231

■ 0.0000, 0.0000,  
1.0050

■ 49.9050, 63.6118,  
104.2558

■ 49.9050, 63.6118,  
104.2558

■ 46.3217, 59.8503,  
103.7186

■ 54.4019, 67.9021,  
104.8469

■ 43.5592, 56.5652,  
103.2301

■ 59.8829, 72.7539,  
105.4945

■ 41.5139, 53.7040,  
102.7856

■ 66.4176, 78.2049,  
106.2022

■ 40.2624, 51.6447,  
102.4541

■ 74.0675, 84.2872,  
106.9730

■ 82.8893, 91.0305,  
107.8097

■ 92.9360, 98.4625,  
108.7147

■ 95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



46.6419, 63.6118, 79.9580



49.9050, 63.6118, 104.2558



56.1342, 63.6118, 120.8632

# Triad

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



49.9050, 63.6118, 104.2558



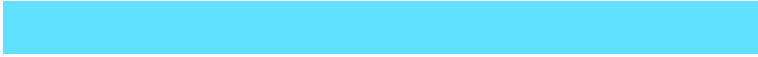
76.4961, 63.6118, 82.7544



56.9731, 63.6118, 34.5184

# Complementary

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



49.9050, 63.6118, 104.2558



50.9882, 37.3034, 15.8243

# 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.



65.0049, 63.6118, 34.9432



49.9050, 63.6118, 104.2558



76.7713, 63.6118, 59.5659

# Square

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



49.9050, 63.6118, 104.2558



71.6880, 63.6118, 106.6898



72.4098, 63.6118, 43.1327



50.4721, 63.6118, 41.8054

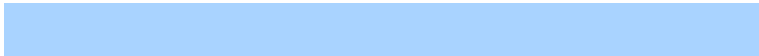


# Rectangle

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



49.9050, 63.6118, 104.2558



61.3588, 63.6118, 123.4737



72.4098, 63.6118, 43.1327



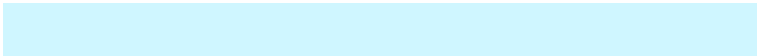
59.5722, 63.6118, 33.8221

# Sweetspot

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



49.9068, 63.6141, 104.2561



76.5519, 86.2113, 107.2135



44.4549, 75.5676, 31.9728



15.8706, 18.0542, 22.8983



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.



49.9068, 63.6141, 104.2561



45.6936, 59.1419, 103.6150



33.4206, 30.6416, 98.7607



18.2445, 19.8606, 23.1218



21.1426, 27.1949, 53.5694



2.1306, 2.7918, 5.2399



# Inverse Universe

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



59.1066, 35.2475, 74.9247



56.0147, 30.3152, 70.0362



65.2221, 65.7713, 20.5690



18.6361, 18.2377, 21.9666



27.4600, 13.4733, 32.1366

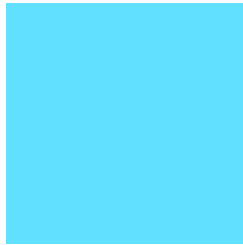


2.7100, 1.3264, 3.3204



# Previews

## White Background



This preview shows how the XYZ color 49.9050, 63.6118, 104.2558 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

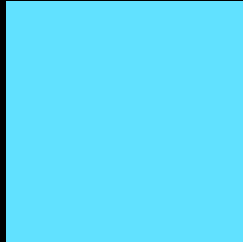
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9050, 63.6118, 104.2558 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

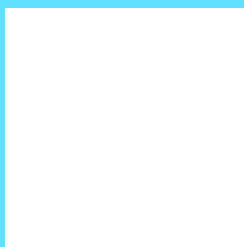
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 49.9050, 63.6118, 104.2558

## Background



This preview shows how black text looks on a background with the XYZ color 49.9050, 63.6118, 104.2558.



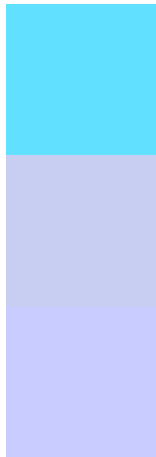
This preview shows how white text looks on a background with the XYZ color 49.9050, 63.6118,



# 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

49.9050, 63.6118, 104.2558

### Protanopia

61.9177, 62.8328, 92.8689

### Deuteranopia

63.7303, 62.8232, 103.3749



## Tritanopia

48.3641, 63.8061, 96.1529

# Trichromacy



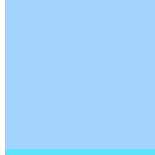
## Original Color

49.9050, 63.6118, 104.2558



## Protanomaly

55.6870, 62.0904, 97.0453



## Deuteranomaly

56.6977, 62.0935, 103.6047



## Tritanomaly

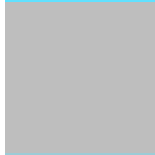
48.9113, 63.6119, 99.3230

# Monochromacy



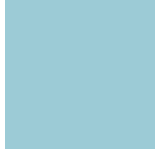
## Original Color

49.9050, 63.6118, 104.2558



## Achromatopsia

48.9429, 51.4918, 56.0745



## Achromatomaly

47.2038, 54.6348, 71.6760

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9050, 63.6118, 104.2558 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(97, 225, 255)` looks like.

```
.text, #text, p{  
    color:rgb(97, 225, 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(97, 225, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 225, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9050, 63.6118, 104.2558 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(97, 225, 255) }
```



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

```
.border{ border-color:rgb(97, 225, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 225, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 225, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 225, 255);  
box-shadow:4px 4px 4px 4px rgb(97, 225,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9050, 63.6118, 104.2558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 225, 255) }
```

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

```
.background{ background-color: rgb(97, 225,  
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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