

# Converting Colors

XYZ(48.8900, 77.3703, 54.0319)

Have a look what the booklet for  
XYZ(48.8900, 77.3703, 54.0319)  
contains.

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# Color

**XYZ(48.8414, 77.3470,  
53.9502)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63FFB1
RGB	99, 255, 177
RGB Percent	39%, 100%, 69%
CMY	0.6118, 0.0000, 0.3059
CMYK	0.61, 0.00, 0.31, 0.00
HSL	150°, 100%, 69%
HSV	150°, 61%, 100%
XYZ	48.8414, 77.3470, 53.9502
YIQ	199.4640, -67.9380, -57.3300

# Conversions

## Conversions Part 2

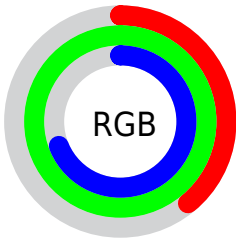
Format	Color
<a href="#">RYB</a>	<a href="#">99, 203, 255</a>
Decimal	<a href="#">6553521</a>
CIELab	<a href="#">90.48, -58.48, 25.33</a>
CIELCh	<a href="#">90, 63.733, 156.585</a>
Yxy	<a href="#">77.3470, 0.2711, 0.4294</a>
Android (android.graphics.Color)	<a href="#">4284743601 (0xFF63FFB1)</a>
YUV	<a href="#">199.4640, -11.0748, -88.1069</a>
Hunter-Lab	<a href="#">87.9471, -54.7776, 25.1922</a>

# Details

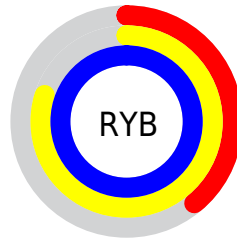
The XYZ color **48.8414, 77.3470, 53.9502** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **53.6381, 33.3587, 45.2073**, and the grayscale version is **54.6662, 57.5130, 62.6317**.

A 20% lighter version of the original color is **65.3683, 85.0846, 90.0685**, and **23.6043, 41.3877, 25.8133** is the 20% darker color. If you saturate the color by 10%, you get **45.2696, 75.6457, 47.4568**, and if you desaturate by 10%, it is **53.4123, 79.5496, 61.1128**.

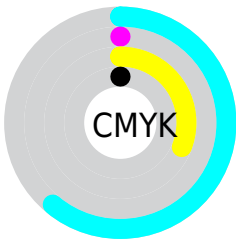
# Distribution



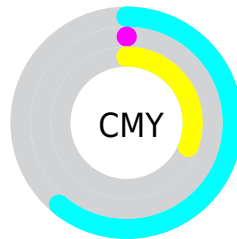
- Red (39%)
- Green (100%)
- Blue (69%)



- Red (39%)
- Yellow (80%)
- Blue (100%)



- Cyan (61%)
- Magenta (0%)
- Yellow (31%)
- Black (0%)




- Cyan (61%)
- Magenta (0%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8414, 77.3470, 53.9502 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 48.8414, 77.3470, 53.9502 by changing the saturation by 10% instead.





 48.8414, 77.3470,  
53.9502


 48.8414, 77.3470,  
53.9502


372.6449,  
485.9463, 419.0893


 34.7077, 57.5377,  
38.1689


 87.6580, 129.6292,  
97.4568

 23.6033, 41.4371,  
25.8110


 113.0716,  
162.8709, 126.0192

 15.1627, 28.6608,  
16.4578


 142.9759,  
201.3588, 159.6791

 9.0207, 18.8244,  
9.6908

177.7362,  
245.4775, 198.8550

 4.8119, 11.5434,  
5.0915

217.7179,  
295.6111, 243.9654

 2.1710, 6.4336,  
2.2414

263.2864,

 0.7274, 3.1105,

352.1442, 295.4289

0.6981

314.8069,  
415.4611, 353.6640

■ 0.0000, 1.1897,  
0.0000

■ 0.0000, 0.0533,  
0.0000

■ 48.8414, 77.3470,  
53.9502

■ 48.8414, 77.3470,  
53.9502

■ 45.2696, 75.6457,  
47.4568

■ 53.4123, 79.5496,  
61.1128

■ 42.6059, 74.3992,  
41.6076


■ 59.0585, 82.2924,  
68.9607


■ 40.7442, 73.5532,  
36.3812


■ 65.8505, 85.6116,  
77.5139

■ 39.6235, 73.0654,  
32.2650

■ 73.8521, 89.5395,  
86.7906

 83.1222, 94.1063,  
96.8082

 93.7158, 99.3399,  
107.5833

 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.



56.7317, 77.3470, 31.5974



48.8414, 77.3470, 53.9502



47.0962, 77.3470, 94.6817

# Triad

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



48.8414, 77.3470, 53.9502



77.0843, 77.3470, 204.8512



100.9515, 77.3470, 42.0120

# Complementary

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



48.8414, 77.3470, 53.9502



53.6381, 33.3587, 45.2073

# 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.



108.3294, 77.3470, 74.5546



48.8414, 77.3470, 53.9502



93.3217, 77.3470, 176.1028

# Square

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



48.8414, 77.3470, 53.9502



62.0049, 77.3470, 193.0675



105.3529, 77.3470, 124.1021



86.3702, 77.3470, 26.6486



# Rectangle

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



48.8414, 77.3470, 53.9502



49.3886, 77.3470, 129.8839



105.3529, 77.3470, 124.1021



104.4454, 77.3470, 50.7480

# Sweetspot

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



48.8420, 77.3473, 53.9515



76.6554, 90.9190, 89.8903



56.1441, 81.7682, 24.6290



15.8565, 19.1893, 18.6316



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.



48.8420, 77.3473, 53.9515



44.7186, 75.3857, 46.3419



58.9560, 81.3928, 107.2108



18.1504, 20.3197, 21.0949



20.7795, 38.2084, 17.2560



2.0783, 3.7423, 1.9704



# Inverse Universe

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



53.6381, 33.3587, 45.2073



49.8737, 28.1037, 36.9430



47.9544, 31.0852, 15.2778



18.3882, 18.1386, 20.6613



23.6428, 11.9464, 12.0356

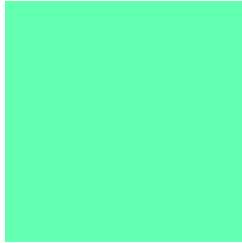


2.3571, 1.1852, 1.4621



# Previews

## White Background



This preview shows how the XYZ color 48.8414, 77.3470, 53.9502 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

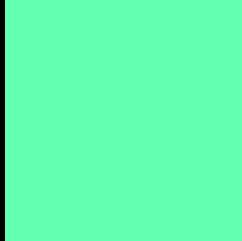
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8414, 77.3470, 53.9502 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 48.8414, 77.3470, 53.9502**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8414, 77.3470, 53.9502.



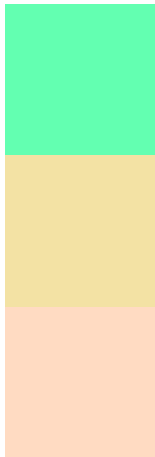
This preview shows how white text looks on a background with the XYZ color 48.8414, 77.3470,

53.9502.

# 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

48.8414, 77.3470, 53.9502

### Protanopia

70.8593, 76.1277, 46.0814

### Deuteranopia

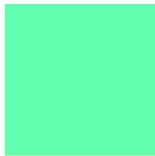
76.3091, 75.8181, 61.6514



## Tritanopia

63.5082, 76.9111, 106.1058

# Trichromacy



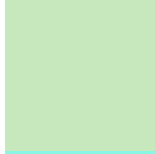
## Original Color

48.8414, 77.3470, 53.9502



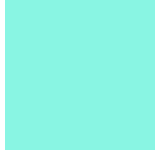
## Protanomaly

58.9315, 74.5093, 48.8118



## Deuteranomaly

61.2224, 73.3498, 58.5081



## Tritanomaly

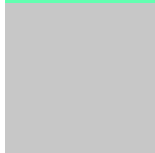
56.8341, 76.1692, 84.3797

# Monochromacy



## Original Color

48.8414, 77.3470, 53.9502



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

49.8397, 62.2112, 58.6713

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8414, 77.3470, 53.9502 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(99, 255, 177)` looks like.

```
.text, #text, p{  
    color:rgb(99, 255, 177)  
}
```

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(99, 255, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 255, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8414, 77.3470, 53.9502 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(99, 255, 177) }
```



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

```
.border{ border-color:rgb(99, 255, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 255, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 255, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 255, 177);  
box-shadow:4px 4px 4px 4px rgb(99, 255,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8414, 77.3470, 53.9502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 255, 177) }
```

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

```
.background{ background-color: rgb(99, 255,  
177) }
```

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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