

# Converting Colors

XYZ(48.9694, 77.0729, 69.3174)

Have a look what the booklet for  
XYZ(48.9694, 77.0729, 69.3174)  
contains.

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# Color

**XYZ(48.9738, 77.0729,  
69.4221)**

# Conversions

## Conversions Part 1

Format	Color
Hex	43FFCC
RGB	67, 255, 204
RGB Percent	26%, 100%, 80%
CMY	0.7372, 0.0000, 0.2000
CMYK	0.74, 0.00, 0.20, 0.00
HSL	164°, 100%, 63%
HSV	164°, 74%, 100%
XYZ	48.9738, 77.0729, 69.4221
YIQ	192.9740, -95.6770, -55.7170

# Conversions

## Conversions Part 2

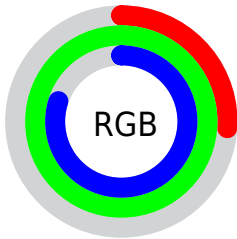
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">67, 176, 255</a>
Decimal	<a href="#">4456396</a>
CIELab	<a href="#">90.36, -57.58, 11.23</a>
CIELCh	<a href="#">90, 58.666, 168.961</a>
Yxy	<a href="#">77.0729, 0.2505, 0.3943</a>
Android (android.graphics.Color)	<a href="#">4282646476 (0xFF43FFCC)</a>
YUV	<a href="#">192.9740, 5.4358, -110.4792</a>
Hunter-Lab	<a href="#">87.7912, -54.0594, 14.5694</a>

# Details

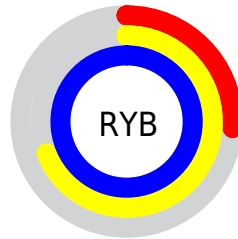
The XYZ color **48.9738, 77.0729, 69.4221** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **46.5180, 26.5834, 19.8207**, and the grayscale version is **50.6836, 53.3231, 58.0688**.

A 20% lighter version of the original color is **64.6252, 84.3154, 107.4761**, and **25.4713, 42.1345, 35.6445** is the 20% darker color. If you saturate the color by 10%, you get **46.7826, 76.0370, 65.0850**, and if you desaturate by 10%, it is **51.9724, 78.5207, 73.9920**.

# Distribution



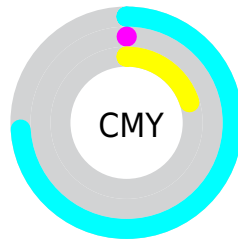
- Red (26%)
- Green (100%)
- Blue (80%)



- Red (26%)
- Yellow (69%)
- Blue (100%)



- Cyan (74%)
- Magenta (0%)
- Yellow (20%)
- Black (0%)




- Cyan (74%)
- Magenta (0%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9738, 77.0729, 69.4221 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 48.9738, 77.0729, 69.4221 by changing the saturation by 10% instead.





 48.9738, 77.0729,  
69.4221


 48.9738, 77.0729,  
69.4221


373.1578,  
485.0125, 477.2525


 34.8131, 57.3127,  
50.5817


 87.8535, 129.2424,  
120.0576

 23.6848, 41.2564,  
35.5014


 113.3032,  
162.4205, 152.6898

 15.2234, 28.5195,  
23.7627


 143.2467,  
200.8400, 190.7563

 9.0637, 18.7176,  
14.9471

 178.0493,  
244.8853, 234.6756

 4.8402, 11.4664,  
8.6361

218.0764,  
294.9408, 284.8664

 2.1876, 6.3815,  
4.4110

263.6933,

 0.7362, 3.0784,

351.3909, 341.7471

1.8534

315.2653,  
414.6200, 405.7363

■ 0.0000, 1.1728,  
0.4629

■ 0.0000, 0.0393,  
0.0000

■ 48.9738, 77.0729,  
69.4221

■ 48.9738, 77.0729,  
69.4221

■ 46.7826, 76.0370,  
65.0850

■ 51.9724, 78.5207,  
73.9920

■ 45.2864, 75.3552,  
60.9691

■ 55.8659, 80.4255,  
78.7973

■ 44.6043, 75.0577,  
58.4932

■ 60.7330, 82.8279,  
83.8453

■ 66.6429, 85.7635,  
89.1417

■ 73.6582, 89.2644,  
94.6916

■ 81.8366, 93.3605,  
100.5001

■ 91.2318, 98.0792,  
106.5718

■ 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.



54.0243, 77.0729, 41.3663



48.9738, 77.0729, 69.4221



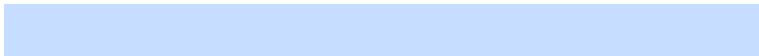
49.7467, 77.0729, 112.9051

# Triad

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



48.9738, 77.0729, 69.4221



82.7789, 77.0729, 185.4671



93.3160, 77.0729, 36.6481

# Complementary

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



48.9738, 77.0729, 69.4221



46.5180, 26.5834, 19.8207

# 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.



103.2025, 77.0729, 60.3746



48.9738, 77.0729, 69.4221



96.5818, 77.0729, 148.6897

# Square

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



48.9738, 77.0729, 69.4221



68.0012, 77.0729, 190.3966



104.4714, 77.0729, 100.3061



78.7737, 77.0729, 27.0902



# Rectangle

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



48.9738, 77.0729, 69.4221



53.4908, 77.0729, 145.4369



104.4714, 77.0729, 100.3061



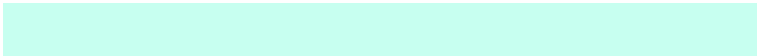
97.3723, 77.0729, 42.7785

# Sweetspot

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



48.9746, 77.0733, 69.4235



74.9824, 89.9267, 95.6735



44.5569, 75.9379, 17.6205



15.6064, 19.0265, 20.1479



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.



48.9746, 77.0733, 69.4235



46.0648, 75.7058, 63.2977



44.4798, 56.6427, 103.1965



18.3322, 20.3924, 22.0524



23.3725, 39.2456, 30.9107



2.3215, 3.8395, 3.2509



# Inverse Universe

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



46.5180, 26.5834, 19.8207



43.6285, 22.9828, 12.1418



47.5885, 32.3356, 9.0447



18.2118, 18.0680, 19.7323



22.1660, 11.3557, 4.2584

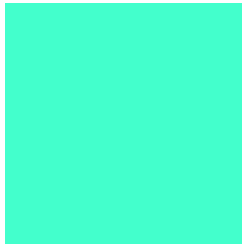


2.2016, 1.1230, 0.6432



# Previews

## White Background



This preview shows how the XYZ color 48.9738, 77.0729, 69.4221 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

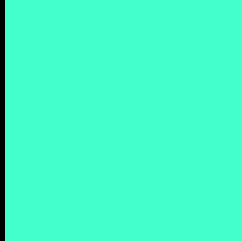
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.9738, 77.0729, 69.4221 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 48.9738, 77.0729, 69.4221**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9738, 77.0729, 69.4221.



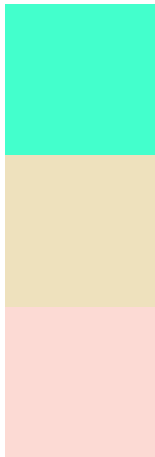
This preview shows how white text looks on a background with the XYZ color 48.9738, 77.0729,



# 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

48.9738, 77.0729, 69.4221

### Protanopia

71.3704, 75.7017, 58.9944

### Deuteranopia

77.1000, 75.5917, 72.8144



## Tritanopia

61.9726, 76.1195, 106.0340

# Trichromacy



## Original Color

48.9738, 77.0729, 69.4221



## Protanomaly

57.6376, 73.1161, 62.1139



## Deuteranomaly

60.0921, 72.0696, 71.0652



## Tritanomaly

55.5385, 75.3540, 90.9745

# Monochromacy



## Original Color

48.9738, 77.0729, 69.4221



## Achromatopsia

50.6879, 53.3276, 58.0738



## Achromatomaly

46.6665, 59.3460, 61.8187

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9738, 77.0729, 69.4221 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(67, 255, 204)` looks like.

```
.text, #text, p{  
    color:rgb(67, 255, 204)  
}
```

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(67, 255, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 255, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9738, 77.0729, 69.4221 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(67, 255, 204) }
```



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

```
.border{ border-color:rgb(67, 255, 204) }
```

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

Here you see how a box with a 4 pixel rgb(67, 255, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 255, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 255, 204);  
box-shadow:4px 4px 4px 4px rgb(67, 255,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9738, 77.0729, 69.4221 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 255, 204) }
```

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

```
.background{ background-color: rgb(67, 255,  
204) }
```

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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