

# Converting Colors

XYZ(24.8690, 42.2343, 6.8413)

Have a look what the booklet for  
XYZ(24.8690, 42.2343, 6.8413)  
contains.

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# Color

**XYZ(24.7769, 42.0765,  
6.8157)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	62C400
RGB	98, 196, 0
RGB Percent	38%, 77%, 0%
CMY	0.6157, 0.2314, 0.9999
CMYK	0.50, 0.00, 1.00, 0.23
HSL	90°, 100%, 38%
HSV	90°, 100%, 77%
XYZ	24.7769, 42.0765, 6.8157
YIQ	144.3540, 4.5080, -81.7320

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 196, 98
Decimal	6472704
CIELab	70.92, -55.27, 70.46
CIELCh	71, 89.547, 128.111
Yxy	42.0765, 0.3363, 0.5712
Android (android.graphics.Color)	4284662784 (0xFF62C400)
YUV	144.3540, -71.1665, -40.6525
Hunter-Lab	64.8664, -45.3349, 39.1767

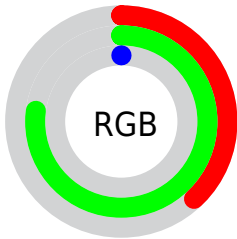
# Details

The XYZ color **24.7769, 42.0765, 6.8157** is a dark color, and the websafe version is hex **66CC00**.

The color can be described as dark washed chartreuse. A complement of this color would be **15.0043, 6.5843, 52.7070**, and the grayscale version is **26.9314, 28.3339, 30.8556**.

A 20% lighter version of the original color is **50.6738, 78.0988, 19.9932**, and **9.9769, 19.2828, 3.1961** is the 20% darker color. If you saturate the color by 10%, you get **24.7766, 42.0777, 6.8159**, and if you desaturate by 10%, it is **26.0239, 42.7065, 7.5159**.

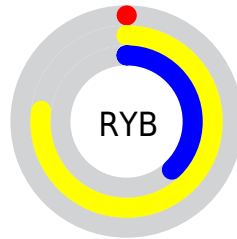
# Distribution



Red (38%)

Green (77%)

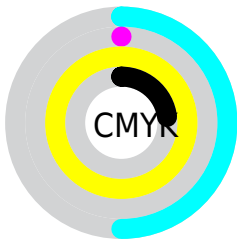
Blue (0%)



Red (0%)

Yellow (77%)

Blue (38%)

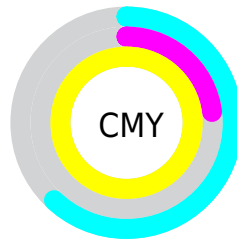


Cyan (50%)

Magenta (0%)

Yellow (100%)

Black (23%)



Cyan (62%)

Magenta (23%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.7769, 42.0765, 6.8157 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 24.7769, 42.0765, 6.8157 by changing the saturation by 10% instead.



■ 24.7769, 42.0765,  
6.8157

■ 24.7769, 42.0765,  
6.8157

269.0932,  
354.8000, 175.6958

■ 16.0388, 29.1612,  
3.2704

■ 50.7406, 78.3154,  
20.1080

■ 9.6426, 19.2028,  
1.2343

■ 68.6968, 102.4078,  
30.6921

■ 5.2231, 11.8169,  
0.0070

■ 90.4564, 130.9946,  
44.4595

■ 2.4148, 6.6191,  
0.0000

■ 116.3848,  
164.4604, 61.8288

■ 0.8525, 3.2251,  
0.0000

■ 146.8474,  
203.1894, 83.2186

■ 0.0000, 1.2503,  
0.0000

■ 182.2094,

■ 0.0000, 0.1023,

247.5660, 109.0473

0.0000

222.8362,  
297.9748, 139.7335

■ 0.0000, 0.0000,  
0.0000

■ 24.7769, 42.0765,  
6.8157

■ 24.7769, 42.0765,  
6.8157

■ 24.7766, 42.0777,  
6.8159

■ 26.0239, 42.7065,  
7.5159

■ 27.5281, 43.4534,  
8.8753

■ 29.3383, 44.3387,  
11.1256

■ 31.4815, 45.3735,  
14.3863

■ 33.9804, 46.5676,  
18.7587

■ 36.8559, 47.9296,  
24.3315

■ 40.1264, 49.4673,  
31.1847

■ 43.8094, 51.1881,  
39.3913

■ 47.9210, 53.0989,  
49.0187

# Harmonies

## Analogous

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



36.0816, 42.0765, 3.1223



24.7769, 42.0765, 6.8157



18.8494, 42.0765, 21.5115

# Triad

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



24.7769, 42.0765, 6.8157



30.2264, 42.0765, 172.0737



75.6273, 42.0765, 35.1767

# Complementary

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



24.7769, 42.0765, 6.8157



15.0043, 6.5843, 52.7070

# 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.



72.9372, 42.0765, 83.7568



24.7769, 42.0765, 6.8157



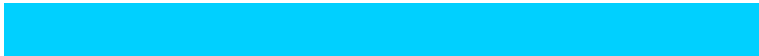
44.1762, 42.0765, 184.6904

# Square

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



24.7769, 42.0765, 6.8157



21.4074, 42.0765, 117.4882



60.4292, 42.0765, 145.5680



67.0631, 42.0765, 11.5227

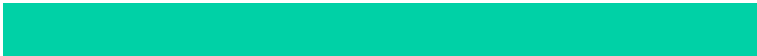


# Rectangle

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



24.7769, 42.0765, 6.8157



17.6339, 42.0765, 43.1600



60.4292, 42.0765, 145.5680



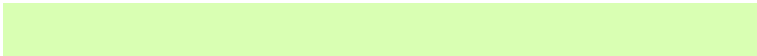
76.0428, 42.0765, 48.5749

# Sweetspot

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



24.7779, 42.0783, 6.8166



72.3856, 89.4671, 55.8369



27.1350, 20.4741, 2.5224



14.9345, 18.8872, 10.7615



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.



24.7779, 42.0783, 6.8166



44.5844, 76.0692, 12.3330



19.7412, 39.4818, 6.5809



10.4134, 11.5006, 10.7329



16.0186, 27.0867, 4.3840



0.7716, 1.2113, 0.1931



# Inverse Universe

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



15.0043, 6.5843, 52.7070



26.8797, 11.7719, 95.4632



32.7305, 15.7225, 53.5365



9.9974, 9.9898, 12.6861



9.7389, 4.2810, 33.8696



0.5003, 0.2260, 1.4671



# Previews

## White Background



This preview shows how the XYZ color 24.7769, 42.0765, 6.8157 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 24.7769, 42.0765, 6.8157 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 24.7769, 42.0765, 6.8157**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.7769, 42.0765, 6.8157.



This preview shows how white text looks on a background with the XYZ color 24.7769, 42.0765,



# 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

24.7769, 42.0765, 6.8157

### Protanopia

37.4492, 41.4892, 6.0344

### Deuteranopia

42.2737, 41.4558, 7.7812



## Tritanopia

35.1182, 41.7722, 59.0352

# Trichromacy



## Original Color

24.7769, 42.0765, 6.8157



## Protanomaly

31.0211, 40.5213, 6.1864



## Deuteranomaly

33.1564, 40.1195, 6.9160



## Tritanomaly

28.5422, 40.6662, 25.7471

# Monochromacy



## Original Color

24.7769, 42.0765, 6.8157



## Achromatopsia

26.5089, 27.8894, 30.3716



## Achromatomaly

23.7814, 31.4791, 14.9479

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.7769, 42.0765, 6.8157 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(98, 196, 0)` looks like.

```
.text, #text, p{  
    color:rgb(98, 196, 0)  
}
```

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(98, 196, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 196, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 24.7769, 42.0765, 6.8157 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(98, 196, 0) }
```



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

```
.border{ border-color:rgb(98, 196, 0) }
```

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

Here you see how a box with a 4 pixel rgb(98, 196, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 196, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 196, 0);  
box-shadow:4px 4px 4px 4px rgb(98, 196, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 24.7769, 42.0765, 6.8157 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 196, 0) }
```

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

```
.background{ background-color: rgb(98, 196,  
0) }
```

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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