

# Converting Colors

XYZ(30.3327, 48.7285, 9.2453)

Have a look what the booklet for  
XYZ(30.3327, 48.7285, 9.2453)  
contains.

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# Color

**XYZ(30.3331, 48.7285,  
9.2457)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	78CF21
RGB	120, 207, 33
RGB Percent	47%, 81%, 13%
CMY	0.5294, 0.1882, 0.8705
CMYK	0.42, 0.00, 0.84, 0.19
HSL	90°, 72%, 47%
HSV	90°, 84%, 81%
XYZ	30.3331, 48.7285, 9.2457
YIQ	161.1510, 4.0020, -72.5580

# Conversions

## Conversions Part 2

Format	Color
<b>RYB</b>	33, 207, 120
Decimal	7917345
CIELab	75.28, -51.77, 69.48
CIELCh	75, 86.643, 126.691
Yxy	48.7285, 0.3435, 0.5518
Android (android.graphics.Color)	4286107425 (0xFF78CF21)
YUV	161.1510, -63.1784, -36.0894
Hunter-Lab	69.8058, -44.5956, 41.0112

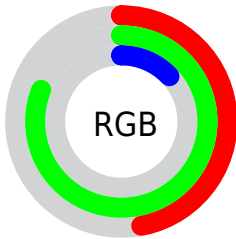
# Details

The XYZ color **30.3331, 48.7285, 9.2457** is a dark color, and the websafe version is hex **66CC00**.

The color can be described as dark muted chartreuse. A complement of this color would be **19.5549, 9.5876, 59.8541**, and the grayscale version is **34.2316, 36.0143, 39.2196**.

A 20% lighter version of the original color is **56.4617, 81.9482, 23.9081**, and **13.0319, 23.3863, 3.8272** is the 20% darker color. If you saturate the color by 10%, you get **28.7689, 47.9475, 8.0964**, and if you desaturate by 10%, it is **32.2328, 49.6649, 11.3420**.

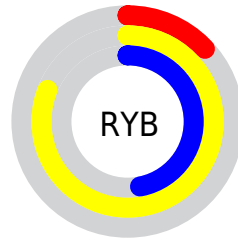
# Distribution



Red (47%)

Green (81%)

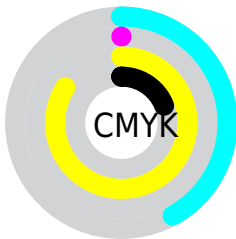
Blue (13%)



Red (13%)

Yellow (81%)

Blue (47%)

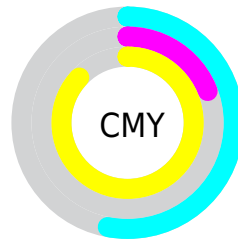


Cyan (42%)

Magenta (0%)

Yellow (84%)

Black (19%)



Cyan (53%)

Magenta (19%)


Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.3331, 48.7285, 9.2457 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 30.3331, 48.7285, 9.2457 by changing the saturation by 10% instead.





 30.3331, 48.7285,  
9.2457


 30.3331, 48.7285,  
9.2457


295.3361,  
381.6725, 195.4854


 20.2409, 34.4042,  
4.8028


 59.5716, 88.2881,  
24.9520


 12.6795, 23.2043,  
2.0753

 79.4485, 114.2921,  
37.0524

 7.2837, 14.7444,  
0.6010


 103.3178,  
144.9582, 52.5424

 3.6881, 8.6402,  
0.0000

 131.5447,  
180.6706, 71.8406

 1.5272, 4.5073,  
0.0000

 164.4947,  
221.8139, 95.3655

 0.3442, 1.9612,  
0.0000

 202.5330,

 0.0000, 0.5848,

268.7724, 123.5355

0.0000

246.0250,  
321.9304, 156.7693

■ 0.0000, 0.0000,  
0.0000

■ 30.3331, 48.7285,  
9.2457

■ 30.3331, 48.7285,  
9.2457

■ 28.7689, 47.9475,  
8.0964

■ 32.2328, 49.6649,  
11.3420

■ 27.9641, 47.5405,  
7.7024

■ 34.4977, 50.7643,  
14.5317

■ 37.1568, 52.0403,  
18.9395

■ 40.2348, 53.5034,  
24.6723

■ 43.7539, 55.1629,  
31.8253

■ 47.7344, 57.0273,  
40.4851

■ 52.1953, 59.1048,  
50.7312

■ 57.1543, 61.4029,  
62.6375

■ 62.6283, 63.9287,  
76.2734

# Harmonies

## Analogous

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



42.8405, 48.7285, 4.9396



30.3331, 48.7285, 9.2457



23.5149, 48.7285, 25.3888

# Triad

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



30.3331, 48.7285, 9.2457



35.2325, 48.7285, 181.0782



83.8343, 48.7285, 43.4875

# Complementary

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



30.3331, 48.7285, 9.2457



19.5549, 9.5876, 59.8541

# 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.



80.4808, 48.7285, 95.8311



30.3331, 48.7285, 9.2457



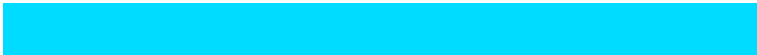
49.9724, 48.7285, 196.3464

# Square

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



30.3331, 48.7285, 9.2457



25.8576, 48.7285, 124.5258



67.1078, 48.7285, 158.9051



75.4369, 48.7285, 16.0334



# Rectangle

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



30.3331, 48.7285, 9.2457



21.9922, 48.7285, 48.1587



67.1078, 48.7285, 158.9051



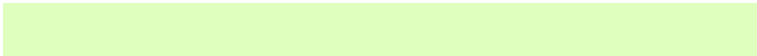
84.0683, 48.7285, 58.2768

# Sweetspot

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



30.3342, 48.7306, 9.2468



75.6607, 91.0000, 63.0116



32.7253, 26.8105, 4.8897



15.6977, 19.2453, 12.3937



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.



30.3342, 48.7306, 9.2468



44.5855, 76.0697, 12.3330



23.2160, 45.0610, 8.9136



12.2114, 13.4924, 12.5727



17.7271, 30.0076, 4.8577



1.0827, 1.7250, 0.2759



# Inverse Universe

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



19.5549, 9.5876, 59.8541



26.8786, 11.7713, 95.4632



37.5404, 18.8595, 60.6958



11.7188, 11.7039, 14.8851



10.7661, 4.7304, 37.5381



0.6935, 0.3117, 2.1032



# Previews

## White Background



This preview shows how the XYZ color 30.3331, 48.7285, 9.2457 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 30.3331, 48.7285, 9.2457 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 30.3331, 48.7285, 9.2457**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.3331, 48.7285, 9.2457.



This preview shows how white text looks on a background with the XYZ color 30.3331, 48.7285,



# 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

30.3331, 48.7285, 9.2457

### Protanopia

43.5592, 48.1870, 8.0421

### Deuteranopia

48.9048, 47.8968, 9.9163



## Tritanopia

41.9567, 48.6233, 66.8484

# Trichromacy



## Original Color

30.3331, 48.7285, 9.2457

## Protanomaly

37.1962, 47.4587, 8.3624

## Deuteranomaly

39.7298, 46.8065, 9.4232

## Tritanomaly

35.2198, 47.5527, 33.7079

# Monochromacy



## Original Color

30.3331, 48.7285, 9.2457

## Achromatopsia

33.8758, 35.6400, 38.8120

## Achromatomaly

30.8117, 39.1667, 21.8556

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.3331, 48.7285, 9.2457 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(120, 207, 33)` looks like.

```
.text, #text, p{  
    color:rgb(120, 207, 33)  
}
```

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(120, 207, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 207, 33) }
```

## Border

The CSS property to change the border of an element to XYZ 30.3331, 48.7285, 9.2457 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(120, 207, 33) }
```



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

```
.border{ border-color:rgb(120, 207, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 207, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 207, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 207, 33);  
box-shadow:4px 4px 4px 4px rgb(120, 207,  
33) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.3331, 48.7285, 9.2457 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 207, 33) }
```

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

```
.background{ background-color: rgb(120,  
207, 33) }
```

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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