

# Converting Colors

XYZ(39.9151, 49.1883, 7.4679)

Have a look what the booklet for  
XYZ(39.9151, 49.1883, 7.4679)  
contains.

<b>XYZ(40.0473, 49.2815, 7.4877)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(40.0473, 49.2815,  
7.4877)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BCC203
RGB	188, 194, 3
RGB Percent	74%, 76%, 1%
CMY	0.2627, 0.2392, 0.9882
CMYK	0.03, 0.00, 0.98, 0.24
HSL	62°, 97%, 39%
HSV	62°, 98%, 76%
XYZ	40.0473, 49.2815, 7.4877
YIQ	170.4320, 57.7350, -60.6730

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	<a href="#">3, 194, 9</a>
Decimal	<a href="#">12370435</a>
CIELab	<a href="#">75.63, -20.10, 76.04</a>
CIELCh	<a href="#">76, 78.648, 104.806</a>
Yxy	<a href="#">49.2815, 0.4136, 0.5090</a>
Android (android.graphics.Color)	<a href="#">4290560515 (0xFFBCC203)</a>
YUV	<a href="#">170.4320, -82.5440, 15.4071</a>
Hunter-Lab	<a href="#">70.2008, -21.0228, 42.8166</a>

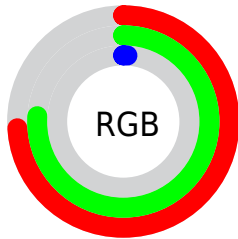
# Details

The XYZ color **40.0473, 49.2815, 7.4877** is a dark color, and the websafe version is hex **CCCC00**.

The color can be described as dark washed chartreuse. A complement of this color would be **9.8840, 4.0191, 51.2968**, and the grayscale version is **38.8063, 40.8272, 44.4609**.

A 20% lighter version of the original color is **74.4583, 88.9522, 21.4287**, and **18.7308, 23.7956, 3.6058** is the 20% darker color. If you saturate the color by 10%, you get **40.0085, 49.2651, 7.4004**, and if you desaturate by 10%, it is **40.3314, 49.4144, 8.1928**.

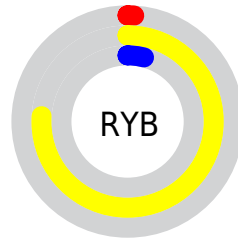
# Distribution



Red (74%)

Green (76%)

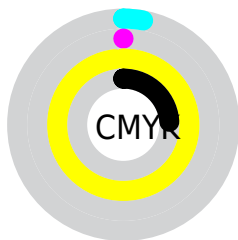
Blue (1%)



Red (1%)

Yellow (76%)

Blue (4%)

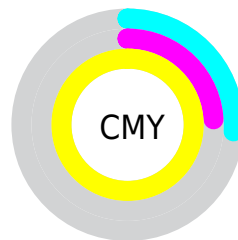


Cyan (3%)

Magenta (0%)

Yellow (98%)

Black (24%)



Cyan (26%)

Magenta (24%)

Yellow (99%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.0473, 49.2815, 7.4877 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 40.0473, 49.2815, 7.4877 by changing the saturation by 10% instead.



40.0473, 49.2815,  
7.4877

40.0473, 49.2815,  
7.4877

337.4539,  
383.8495, 181.4386

27.7598, 34.8428,  
3.6859

74.5194, 89.1094,  
21.4772

18.2842, 23.5418,  
1.4547

97.4347, 115.2674,  
32.5019

11.2551, 14.9941,  
0.1838

124.6234,  
146.1007, 46.7714

6.3073, 8.8152,  
0.0000

156.4507,  
181.9936, 64.7041

3.0752, 4.6209,  
0.0000

193.2821,  
223.3305, 86.7187

1.1937, 2.0266,  
0.0000

235.4828,

0.1014, 0.6228,

270.4959, 113.2336

0.0000

283.4183,  
323.8741, 144.6674

■ 0.0000, 0.0000,  
0.0000

■ 40.0473, 49.2815,  
7.4877

■ 40.0473, 49.2815,  
7.4877

■ 40.0085, 49.2651,  
7.4004

■ 40.3314, 49.4144,  
8.1928

■ 40.7485, 49.5987,  
9.5997

■ 41.3340, 49.8504,  
11.8900

■ 42.1093, 50.1782,  
15.1767

■ 43.0927, 50.5893,  
19.5561

■ 44.3005, 51.0901,  
25.1132

■ 45.7470, 51.6866,  
31.9245

■ 47.4457, 52.3840,  
40.0601

■ 49.4088, 53.1872,  
49.5849

# Harmonies

## Analogous

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



54.5642, 49.2815, 7.5256



40.0473, 49.2815, 7.4877



29.7585, 49.2815, 14.5181

# Triad

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



40.0473, 49.2815, 7.4877



29.6595, 49.2815, 132.2674



79.3680, 49.2815, 77.5235

# Complementary

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



40.0473, 49.2815, 7.4877



9.8840, 4.0191, 51.2968

# 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.



69.4575, 49.2815, 132.9692



40.0473, 49.2815, 7.4877



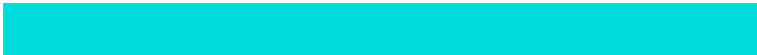
39.8826, 49.2815, 174.1087

# Square

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



40.0473, 49.2815, 7.4877



24.6607, 49.2815, 76.8552



54.3617, 49.2815, 174.4169



79.4378, 49.2815, 35.6742



# Rectangle

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



40.0473, 49.2815, 7.4877



25.8080, 49.2815, 26.2630



54.3617, 49.2815, 174.4169



76.9988, 49.2815, 95.5153

# Sweetspot

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



40.0484, 49.2838, 7.4887



82.3082, 93.4034, 55.1367



22.3334, 11.6113, 1.1509



17.7745, 20.3513, 10.8944



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.



40.0484, 49.2838, 7.4887



72.4379, 89.2285, 13.4049



24.0632, 41.0431, 6.7406



10.8811, 11.7417, 10.7548



26.3165, 32.3955, 4.8659



1.1470, 1.4049, 0.2107



# Inverse Universe

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



9.8840, 4.0191, 51.2968



17.7415, 7.1081, 92.9067



15.2161, 6.7679, 51.5463



9.5569, 9.7627, 12.6655



6.4654, 2.5935, 33.7164



0.2897, 0.1174, 1.4573



# Previews

## White Background



This preview shows how the XYZ color 40.0473, 49.2815, 7.4877 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 40.0473, 49.2815, 7.4877 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 40.0473, 49.2815, 7.4877**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.0473, 49.2815, 7.4877.



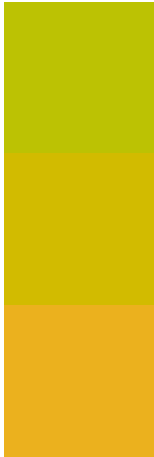
This preview shows how white text looks on a background with the XYZ color 40.0473, 49.2815,



# 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

40.0473, 49.2815, 7.4877

### Protanopia

44.3487, 49.2423, 7.1673

### Deuteranopia

50.2174, 49.2002, 8.0781



## Tritanopia

50.1463, 48.9551, 57.8452

# Trichromacy



## Original Color

40.0473, 49.2815, 7.4877

## Protanomaly

42.7761, 49.3857, 7.3066

## Deuteranomaly

45.9732, 48.8229, 7.6625

## Tritanomaly

43.8156, 47.9144, 26.3411

# Monochromacy



## Original Color

40.0473, 49.2815, 7.4877

## Achromatopsia

38.2080, 40.1978, 43.7754

## Achromatomaly

37.0119, 42.6914, 20.7575

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.0473, 49.2815, 7.4877 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(188, 194, 3)` looks like.

```
.text, #text, p{  
    color:rgb(188, 194, 3)  
}
```

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(188, 194, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 194, 3) }
```

## Border

The CSS property to change the border of an element to XYZ 40.0473, 49.2815, 7.4877 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(188, 194, 3) }
```



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

```
.border{ border-color:rgb(188, 194, 3) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 194, 3)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 194, 3); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 194, 3);  
box-shadow:4px 4px 4px 4px rgb(188, 194,  
3) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.0473, 49.2815, 7.4877 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 194, 3) }
```

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

```
.background{ background-color: rgb(188,  
194, 3) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor