

# Converting Colors

XYZ(49.5672, 54.6859, 9.5084)

Have a look what the booklet for  
XYZ(49.5672, 54.6859, 9.5084)  
contains.

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# **Color**

**XYZ(49.5585, 54.8168,  
9.5588)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCC423
RGB	220, 196, 35
RGB Percent	86%, 77%, 14%
CMY	0.1373, 0.2313, 0.8627
CMYK	0.00, 0.11, 0.84, 0.14
HSL	52°, 73%, 50%
HSV	52°, 84%, 86%
XYZ	49.5585, 54.8168, 9.5588
YIQ	184.8220, 65.9850, -44.9830

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	63, 220, 35
Decimal	14468131
CIE Lab	78.94, -6.77, 74.79
CIE LCh	79, 75.100, 95.172
Yxy	54.8168, 0.4350, 0.4811
Android (android.graphics.Color)	4292658211 (0xFFDCC423)
YUV	184.8220, -73.8622, 30.8511
Hunter-Lab	74.0384, -10.0860, 44.1722

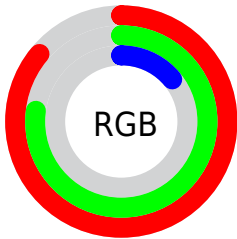
# Details

The XYZ color **49.5585, 54.8168, 9.5588** is a light color, and the websafe version is hex **CCCC33**.

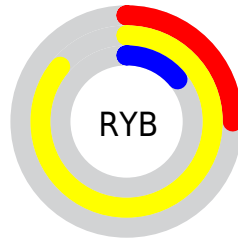
The color can be described as light washed yellow. A complement of this color would be **15.1757, 8.6529, 68.5800**, and the grayscale version is **46.3888, 48.8046, 53.1482**.

A 20% lighter version of the original color is **78.2550, 91.7626, 25.1428**, and **24.3197, 27.1185, 3.9526** is the 20% darker color. If you saturate the color by 10%, you get **48.6914, 53.4520, 8.1320**, and if you desaturate by 10%, it is **50.6448, 56.2931, 12.0684**.

# Distribution



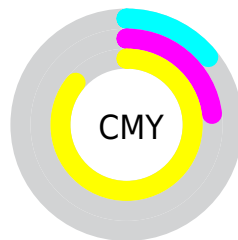
- Red (86%)
- Green (77%)
- Blue (14%)



- Red (25%)
- Yellow (86%)
- Blue (14%)



- Cyan (0%)
- Magenta (11%)
- Yellow (84%)
- Black (14%)




- Cyan (14%)
- Magenta (23%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.5585, 54.8168, 9.5588 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 49.5585, 54.8168, 9.5588 by changing the saturation by 10% instead.





 49.5585, 54.8168,  
9.5588


 49.5585, 54.8168,  
9.5588


375.4175,  
405.2171, 197.8625


 35.2791, 39.2551,  
5.0057


 88.7161, 97.2725,  
25.5570

 24.0455, 26.9582,  
2.1918


 114.3250,  
124.9352, 37.8391

 15.4923, 17.5418,  
0.6696


 144.4412,  
157.4004, 53.5347

 9.2541, 10.6216,  
0.0000

 179.4299,  
195.0525, 73.0622

 4.9658, 5.8130,  
0.0000

 219.6565,  
238.2758, 96.8402

 2.2617, 2.7317,  
0.0000

 265.4864,

 0.7750, 0.9933,

287.4547, 125.2872

0.0000

317.2850,  
342.9737, 158.8218

■ 0.0000, 0.0000,  
0.0000

■ 49.5585, 54.8168,  
9.5588

■ 49.5585, 54.8168,  
9.5588

■ 48.6914, 53.4520,  
8.1320

■ 50.6448, 56.2931,  
12.0684

■ 48.2474, 52.6804,  
7.6254

■ 51.9798, 57.8865,  
15.8323

■ 53.5920, 59.6106,  
20.9954

■ 55.5053, 61.4750,  
27.6820

■ 57.7405, 63.4882,  
36.0025

■ 60.3168, 65.6579,  
46.0573

■ 63.2519, 67.9914,  
57.9386

■ 66.5619, 70.4951,  
71.7320

■ 70.2622, 73.1754,  
87.5177

# Harmonies

## Analogous

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



65.0991, 54.8168, 11.8634



49.5585, 54.8168, 9.5588



37.2631, 54.8168, 14.5685

# Triad

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



49.5585, 54.8168, 9.5588



31.9948, 54.8168, 120.6184



82.7134, 54.8168, 101.2557

# Complementary

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



49.5585, 54.8168, 9.5588



15.1757, 8.6529, 68.5800

# 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.



70.4341, 54.8168, 155.1769



49.5585, 54.8168, 9.5588



40.9609, 54.8168, 169.6042

# Square

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



49.5585, 54.8168, 9.5588



28.4362, 54.8168, 67.4021



54.7305, 54.8168, 184.5882



86.2109, 54.8168, 52.5828



# Rectangle

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



49.5585, 54.8168, 9.5588



31.9236, 54.8168, 23.9871



54.7305, 54.8168, 184.5882



79.3746, 54.8168, 119.9749

# Sweetspot

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



49.5597, 54.8194, 9.5599



83.8502, 91.3901, 62.6552



30.9233, 16.7409, 5.8314



17.6666, 19.3278, 12.3058



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.



49.5597, 54.8194, 9.5599



67.3417, 73.4634, 10.6306



38.8771, 57.9992, 10.7367



14.0107, 14.9607, 13.8748



28.3743, 31.0341, 4.4947



1.8792, 2.0925, 0.3049



# Inverse Universe

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



15.1757, 8.6529, 68.5800



18.5959, 8.3118, 95.2320



19.0945, 9.2439, 68.4875



12.4741, 12.8880, 16.4823



7.8780, 3.6254, 40.0230



0.5558, 0.3257, 2.6080



# Previews

## White Background



This preview shows how the XYZ color 49.5585, 54.8168, 9.5588 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 49.5585, 54.8168, 9.5588 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 49.5585, 54.8168, 9.5588**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.5585, 54.8168, 9.5588.



This preview shows how white text looks on a background with the XYZ color 49.5585, 54.8168,



# 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

49.5585, 54.8168, 9.5588

### Protanopia

49.5585, 54.8168, 9.5588

### Deuteranopia

55.7729, 54.4579, 9.7624



## Tritanopia

59.7610, 54.4760, 60.1885

# Trichromacy



## Original Color

49.5585, 54.8168, 9.5588

## Protanomaly

49.5585, 54.8168, 9.5588

## Deuteranomaly

53.4889, 54.5462, 9.6288

## Tritanomaly

54.0363, 53.7065, 31.5631

# Monochromacy



## Original Color

49.5585, 54.8168, 9.5588

## Achromatopsia

46.1135, 48.5150, 52.8328

## Achromatomaly

45.5156, 50.0127, 28.3736

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.5585, 54.8168, 9.5588 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(220, 196, 35)` looks like.

```
.text, #text, p{  
    color:rgb(220, 196, 35)  
}
```

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(220, 196, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 196, 35) }
```

## Border

The CSS property to change the border of an element to XYZ 49.5585, 54.8168, 9.5588 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(220, 196, 35) }
```



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

```
.border{ border-color:rgb(220, 196, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 196, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 196, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 196, 35);  
box-shadow:4px 4px 4px 4px rgb(220, 196,  
35) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.5585, 54.8168, 9.5588 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 196, 35) }
```

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

```
.background{ background-color: rgb(220,  
196, 35) }
```

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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