

# Converting Colors

XYZ(50.5638, 49.3809, 9.7722)

Have a look what the booklet for  
XYZ(50.5638, 49.3809, 9.7722)  
contains.

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# Color

**XYZ(50.5375, 49.3282,  
9.7634)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EBB131
RGB	235, 177, 49
RGB Percent	92%, 69%, 19%
CMY	0.0784, 0.3059, 0.8078
CMYK	0.00, 0.25, 0.79, 0.08
HSL	41°, 82%, 56%
HSV	41°, 79%, 92%
XYZ	50.5375, 49.3282, 9.7634
YIQ	179.7500, 75.6560, -27.5120

# Conversions

## Conversions Part 2

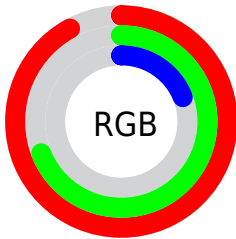
Format	Color
R <sub>Y</sub> B	133, 235, 49
Decimal	15446321
CIE Lab	75.66, 10.00, 68.51
CIE LCh	76, 69.234, 81.692
Yxy	49.3282, 0.4610, 0.4500
Android (android.graphics.Color)	4293636401 (0xFFEBB131)
YUV	179.7500, -64.4597, 48.4543
Hunter-Lab	70.2340, 5.5316, 40.9218

# Details

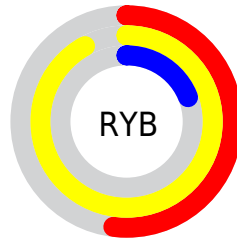
The XYZ color **50.5375, 49.3282, 9.7634** is a light color, and the websafe version is hex **CC9900**. The color can be described as light washed orange. A complement of this color would be **21.5196, 17.1661, 80.7760**, and the grayscale version is **43.5560, 45.8243, 49.9026**.

A 20% lighter version of the original color is **72.6464, 79.9931, 24.9759**, and **24.7892, 23.6659, 3.2614** is the 20% darker color. If you saturate the color by 10%, you get **48.7563, 46.3637, 7.3279**, and if you desaturate by 10%, it is **52.6569, 52.5563, 13.5866**.

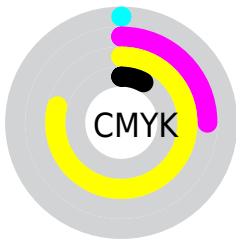
# Distribution



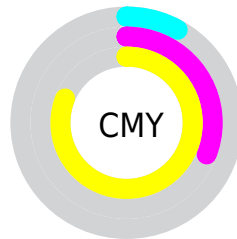
- Red (92%)
- Green (69%)
- Blue (19%)



- Red (52%)
- Yellow (92%)
- Blue (19%)



- Cyan (0%)
- Magenta (25%)
- Yellow (79%)
- Black (8%)




- Cyan (8%)
- Magenta (31%)
- Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.5375, 49.3282, 9.7634 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 50.5375, 49.3282, 9.7634 by changing the saturation by 10% instead.




 50.5375, 49.3282,  
9.7634


 50.5375, 49.3282,  
9.7634


379.1815,  
384.0329, 199.3981

 36.0602, 34.8799,  
5.1388


 90.1578, 89.1787,  
25.9503


 24.6510, 23.5704,  
2.2688


 116.0316,  
115.3497, 38.3498


 15.9446, 15.0152,  
0.7137


 146.4348,  
146.1971, 54.1779

 9.5756, 8.8301,  
0.0000

 181.7330,  
182.1052, 73.8533

 5.1786, 4.6305,  
0.0000

 222.2914,  
223.4584, 97.7945

 2.3882, 2.0321,  
0.0000

 268.4753,

 0.8392, 0.6260,

270.6412, 126.4200

0.0000

320.6503,  
324.0379, 160.1483

■ 0.0000, 0.0000,  
0.0000

■ 50.5375, 49.3282,  
9.7634

■ 50.5375, 49.3282,  
9.7634

■ 48.7563, 46.3637,  
7.3279

■ 52.6569, 52.5563,  
13.5866

■ 47.2541, 43.6312,  
5.9887


■ 55.1475, 56.0572,  
18.9810


■ 47.1330, 43.4065,  
5.8941


■ 58.0416, 59.8475,  
26.1047


■ 61.3663, 63.9400,  
35.0957

■ 65.1463, 68.3463,  
46.0780

 69.4040, 73.0770,  
59.1650

 74.1604, 78.1423,  
74.4612

 79.4349, 83.5516,  
92.0644

 84.3469, 88.9544,  
107.3321

# Harmonies

## Analogous

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



63.8849, 49.3282, 15.1769



50.5375, 49.3282, 9.7634



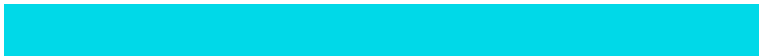
38.3514, 49.3282, 11.1947

# Triad

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



50.5375, 49.3282, 9.7634



27.5082, 49.3282, 84.2569



69.0091, 49.3282, 110.4309

# Complementary

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



50.5375, 49.3282, 9.7634



21.5196, 17.1661, 80.7760

# 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.



56.5989, 49.3282, 149.6321



50.5375, 49.3282, 9.7634



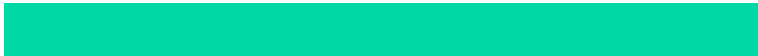
33.2049, 49.3282, 130.3317

# Square

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



50.5375, 49.3282, 9.7634



26.4792, 49.3282, 44.1420



43.4128, 49.3282, 158.2231



75.7500, 49.3282, 64.5695



# Rectangle

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



50.5375, 49.3282, 9.7634



32.3266, 49.3282, 16.3605



43.4128, 49.3282, 158.2231



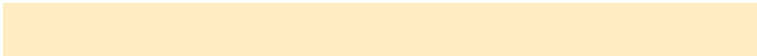
65.2655, 49.3282, 125.5516

# Sweetspot

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



50.5386, 49.3306, 9.7643



80.9270, 85.0897, 63.0799



38.0609, 20.9397, 16.1961



16.9370, 17.7818, 12.3300



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.



50.5386, 49.3306, 9.7643



57.5248, 53.7160, 7.7087



54.3232, 72.0418, 13.9486



15.9328, 16.7886, 15.9195



26.3507, 24.3956, 3.3200



2.1543, 2.0859, 0.2891



# Inverse Universe

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



21.5196, 17.1661, 80.7760



21.7254, 14.3297, 96.2286



19.6703, 10.0389, 79.4977



14.6144, 15.3152, 19.1081



9.7818, 6.2105, 44.4262



0.8511, 0.6537, 3.5162



# Previews

## White Background



This preview shows how the XYZ color 50.5375, 49.3282, 9.7634 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 50.5375, 49.3282, 9.7634 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 50.5375, 49.3282, 9.7634**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.5375, 49.3282, 9.7634.



This preview shows how white text looks on a background with the XYZ color 50.5375, 49.3282,



# 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

50.5375, 49.3282, 9.7634

### Protanopia

44.9685, 49.4902, 10.4313

### Deuteranopia

50.5375, 49.3282, 9.7634



## Tritanopia

58.4532, 49.1793, 48.5312

# Trichromacy



## Original Color

50.5375, 49.3282, 9.7634

## Protanomaly

46.7444, 49.1661, 10.1583

## Deuteranomaly

50.5375, 49.3282, 9.7634

## Tritanomaly

54.2199, 48.5399, 27.9842

# Monochromacy



## Original Color

50.5375, 49.3282, 9.7634

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

44.1044, 46.1855, 28.4199

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.5375, 49.3282, 9.7634 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(235, 177, 49)` looks like.

```
.text, #text, p{  
    color:rgb(235, 177, 49)  
}
```

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(235, 177, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 177, 49) }
```

## Border

The CSS property to change the border of an element to XYZ 50.5375, 49.3282, 9.7634 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(235, 177, 49) }
```



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

```
.border{ border-color:rgb(235, 177, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 177, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 177, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 177, 49);  
box-shadow:4px 4px 4px 4px rgb(235, 177,  
49) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.5375, 49.3282, 9.7634 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 177, 49) }
```

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

```
.background{ background-color: rgb(235,  
177, 49) }
```

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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