

# Converting Colors

XYZ(49.9619, 52.7240, 9.6413)

Have a look what the booklet for  
XYZ(49.9619, 52.7240, 9.6413)  
contains.

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# **Color**

**XYZ(49.9619, 52.7240,  
9.6413)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E2BD29
RGB	226, 189, 41
RGB Percent	89%, 74%, 16%
CMY	0.1137, 0.2588, 0.8392
CMYK	0.00, 0.16, 0.82, 0.11
HSL	48°, 76%, 52%
HSV	48°, 82%, 89%
XYZ	49.9619, 52.7240, 9.6413
YIQ	183.1910, 69.5600, -38.1840

# Conversions

## Conversions Part 2

Format	Color
R <sub>Y</sub> B	87, 226, 41
Decimal	14859561
CIE Lab	77.71, -0.41, 72.43
CIE LCh	78, 72.430, 90.321
Yxy	52.7240, 0.4448, 0.4694
Android (android.graphics.Color)	4293049641 (0xFFE2BD29)
YUV	183.1910, -70.1002, 37.5435
Hunter-Lab	72.6113, -4.2487, 42.9554

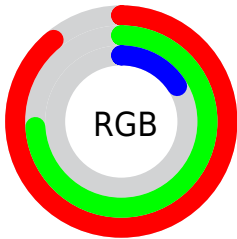
# Details

The XYZ color **49.9619, 52.7240, 9.6413** is a light color, and the websafe version is hex **FFCC33**.

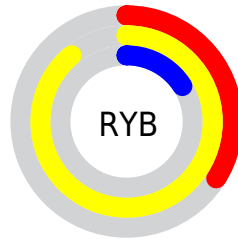
The color can be described as light washed orange. A complement of this color would be **17.3665, 11.4113, 73.2384**, and the grayscale version is **45.4623, 47.8299, 52.0867**.

A 20% lighter version of the original color is **76.2414, 87.5044, 25.1836**, and **24.5300, 25.7153, 3.6707** is the 20% darker color. If you saturate the color by 10%, you get **48.7181, 50.6972, 7.8077**, and if you desaturate by 10%, it is **51.4644, 54.9070, 12.6776**.

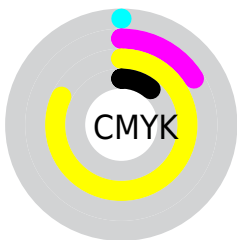
# Distribution



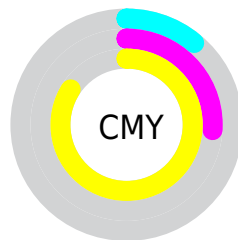
- Red (89%)
- Green (74%)
- Blue (16%)



- Red (34%)
- Yellow (89%)
- Blue (16%)



- Cyan (0%)
- Magenta (16%)
- Yellow (82%)
- Black (11%)




- Cyan (11%)
- Magenta (26%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9619, 52.7240, 9.6413 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 49.9619, 52.7240, 9.6413 by changing the saturation by 10% instead.




 49.9619, 52.7240,  
9.6413


 49.9619, 52.7240,  
9.6413


376.9714,  
397.2253, 198.4833

 35.6008, 37.5825,  
5.0593


 89.3106, 94.1981,  
25.7158

 24.2947, 25.6588,  
2.2228


 115.0289,  
121.2995, 38.0453

 15.6783, 16.5686,  
0.6875


 145.2636,  
153.1563, 53.7945

 9.3862, 9.9274,  
0.0000

 180.3801,  
190.1529, 73.3818

 5.0531, 5.3508,  
0.0000

 220.7438,  
232.6737, 97.2258

 2.3135, 2.4545,  
0.0000

 266.7200,

 0.8016, 0.8537,

281.1031, 125.7451

0.0000

318.6741,  
335.8255, 159.3580

■ 0.0000, 0.0000,  
0.0000

■ 49.9619, 52.7240,  
9.6413

■ 49.9619, 52.7240,  
9.6413

■ 48.7181, 50.6972,  
7.8077

■ 51.4644, 54.9070,  
12.6776

■ 47.8483, 49.1375,  
6.9626

■ 53.2562, 57.2525,  
17.0917

■ 55.3669, 59.7749,  
23.0330

■ 57.8213, 62.4845,  
30.6307

■ 60.6414, 65.3906,  
40.0002

■ 63.8477, 68.5017,  
51.2466

■ 67.4586, 71.8256,  
64.4668

■ 71.4915, 75.3697,  
79.7510

■ 75.9627, 79.1409,  
97.1837

# Harmonies

## Analogous

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



64.6807, 52.7240, 13.0643



49.9619, 52.7240, 9.6413



37.6982, 52.7240, 13.2260

# Triad

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



49.9619, 52.7240, 9.6413



30.2585, 52.7240, 105.8691



77.3717, 52.7240, 104.7479

# Complementary

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



49.9619, 52.7240, 9.6413



17.3665, 11.4113, 73.2384

# 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.



64.9909, 52.7240, 153.1665



49.9619, 52.7240, 9.6413



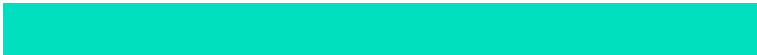
37.9147, 52.7240, 153.9990

# Square

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



49.9619, 52.7240, 9.6413



27.7003, 52.7240, 57.8405



50.2636, 52.7240, 174.3901



82.1922, 52.7240, 56.9766



# Rectangle

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



49.9619, 52.7240, 9.6413



32.0968, 52.7240, 20.8763



50.2636, 52.7240, 174.3901



73.8548, 52.7240, 122.1571

# Sweetspot

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



49.9631, 52.7266, 9.6423



82.4986, 88.6868, 62.2047



33.5324, 18.3051, 8.9746



17.3393, 18.6731, 12.1967



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.



49.9631, 52.7266, 9.6423



63.1057, 64.9466, 9.3564



44.2828, 63.1546, 11.9545



14.6268, 15.5395, 14.5353



27.3834, 28.2047, 4.0008



1.9580, 2.0748, 0.2973



# Inverse Universe

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



17.3665, 11.4113, 73.2384



19.4835, 9.9922, 95.5095



19.3977, 9.5915, 72.7801



13.1729, 13.6849, 17.3349



8.4380, 4.3456, 41.4424



0.6480, 0.4275, 2.8936



# Previews

## White Background



This preview shows how the XYZ color 49.9619, 52.7240, 9.6413 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 49.9619, 52.7240, 9.6413 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 49.9619, 52.7240, 9.6413**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9619, 52.7240, 9.6413.



This preview shows how white text looks on a background with the XYZ color 49.9619, 52.7240,



# 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

49.9619, 52.7240, 9.6413

### Protanopia

47.8068, 52.9060, 9.8827

### Deuteranopia

53.8196, 52.5226, 9.7839



## Tritanopia

59.4117, 52.6012, 55.7369

# Trichromacy



## Original Color

49.9619, 52.7240, 9.6413

## Protanomaly

48.7828, 53.0821, 9.8652

## Deuteranomaly

52.3957, 52.7126, 9.7959

## Tritanomaly

54.2465, 51.9811, 30.4668

# Monochromacy



## Original Color

49.9619, 52.7240, 9.6413

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

44.9989, 48.4787, 28.4584

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9619, 52.7240, 9.6413 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(226, 189, 41)` looks like.

```
.text, #text, p{  
    color:rgb(226, 189, 41)  
}
```

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(226, 189, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 189, 41) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9619, 52.7240, 9.6413 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(226, 189, 41) }
```



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

```
.border{ border-color:rgb(226, 189, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 189, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 189, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 189, 41);  
box-shadow:4px 4px 4px 4px rgb(226, 189,  
41) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9619, 52.7240, 9.6413 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 189, 41) }
```

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

```
.background{ background-color: rgb(226,  
189, 41) }
```

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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