

# Converting Colors

XYZ(49.4931, 49.1068, 11.5747)

Have a look what the booklet for  
XYZ(49.4931, 49.1068, 11.5747)  
contains.

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# Color

**XYZ(49.4507, 49.0227,  
11.5586)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6B23F
RGB	230, 178, 63
RGB Percent	90%, 70%, 25%
CMY	0.0980, 0.3019, 0.7529
CMYK	0.00, 0.23, 0.73, 0.10
HSL	41°, 77%, 57%
HSV	41°, 73%, 90%
XYZ	49.4507, 49.0227, 11.5586
YIQ	180.4380, 67.9070, -24.7410

# Conversions

## Conversions Part 2

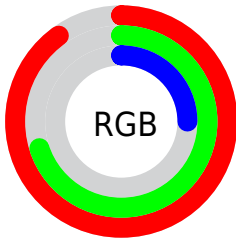
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	139, 230, 63
Decimal	15118911
CIE <sub>Lab</sub>	75.47, 7.90, 63.00
CIE <sub>LCh</sub>	75, 63.493, 82.856
Yxy	49.0227, 0.4494, 0.4455
Android (android.graphics.Color)	4293308991 (0xFFE6B23F)
YUV	180.4380, -57.8969, 43.4659
Hunter-Lab	70.0162, 3.5417, 39.2235

# Details

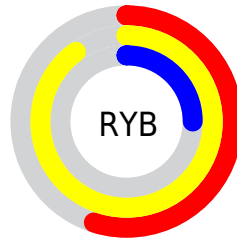
The XYZ color **49.4507, 49.0227, 11.5586** is a light color, and the websafe version is hex **CC9933**. The color can be described as light washed orange. A complement of this color would be **22.4633, 19.0306, 77.3516**, and the grayscale version is **43.8955, 46.1815, 50.2917**.

A 20% lighter version of the original color is **73.5898, 80.8222, 28.5513**, and **24.0384, 23.4678, 3.2628** is the 20% darker color. If you saturate the color by 10%, you get **47.5497, 46.0436, 8.3890**, and if you desaturate by 10%, it is **51.6967, 52.2627, 16.1678**.

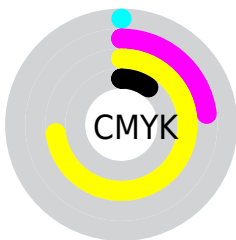
# Distribution



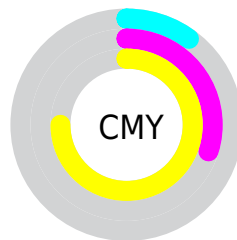
- Red (90%)
- Green (70%)
- Blue (25%)



- Red (55%)
- Yellow (90%)
- Blue (25%)



- Cyan (0%)
- Magenta (23%)
- Yellow (73%)
- Black (10%)



- Cyan (10%)
- Magenta (30%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.4507, 49.0227, 11.5586 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 49.4507, 49.0227, 11.5586 by changing the saturation by 10% instead.



49.4507, 49.0227,  
11.5586

49.4507, 49.0227,  
11.5586

375.0015,  
382.8317, 212.3339

35.1931, 34.6375,  
6.3250

88.5572, 88.7252,  
29.3409

23.9789, 23.3838,  
2.9717

114.1368,  
114.8112, 42.7266

15.4426, 14.8771,  
1.0802

144.2212,  
145.5663, 59.6668

9.2189, 8.7332,  
0.0000

179.1756,  
181.3749, 80.5801

4.9425, 4.5676,  
0.0000

219.3656,  
222.6213, 105.8849

2.2480, 1.9958,  
0.0000

265.1563,

0.7678, 0.6051,

269.6900, 135.9997

0.0000

316.9131,  
322.9653, 171.3433

■ 0.0000, 0.0000,  
0.0000

■ 49.4507, 49.0227,  
11.5586

■ 49.4507, 49.0227,  
11.5586

■ 47.5497, 46.0436,  
8.3890

■ 51.6967, 52.2627,  
16.1678

■ 45.9532, 43.3015,  
6.4665

■ 54.3151, 55.7706,  
22.3710

■ 44.9265, 41.4101,  
5.6251

■ 57.3340, 59.5611,  
30.3056

■ 60.7776, 63.6456,  
40.0933

■ 64.6677, 68.0347,  
51.8448

■ 69.0247, 72.7379,  
65.6621

■ 73.8676, 77.7645,  
81.6399

■ 79.2141, 83.1231,  
99.8674

■ 82.5703, 87.8177,  
107.2063

# Harmonies

## Analogous

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



61.5525, 49.0227, 16.7142



49.4507, 49.0227, 11.5586



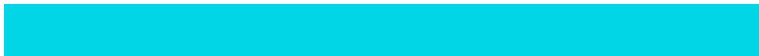
38.3861, 49.0227, 13.2828

# Triad

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



49.4507, 49.0227, 11.5586



28.7764, 49.0227, 82.5401



66.9416, 49.0227, 102.5385

# Complementary

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



49.4507, 49.0227, 11.5586



22.4633, 19.0306, 77.3516

# 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.



55.8970, 49.0227, 137.5556



49.4507, 49.0227, 11.5586



34.2804, 49.0227, 123.0282

# Square

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



49.4507, 49.0227, 11.5586



27.6367, 49.0227, 45.7542



43.8507, 49.0227, 146.3094



72.6914, 49.0227, 61.8035



# Rectangle

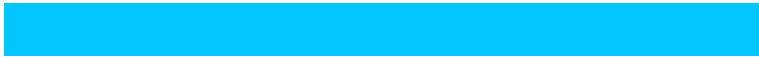
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.4507, 49.0227, 11.5586



32.8989, 49.0227, 18.6918



43.8507, 49.0227, 146.3094



63.6448, 49.0227, 115.9619

# Sweetspot

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



49.4518, 49.0251, 11.5596



81.9761, 86.2568, 66.3006



37.5563, 21.6366, 18.6849



17.2454, 18.1293, 13.2626



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.



49.4518, 49.0251, 11.5596



59.0605, 56.4584, 9.2346



52.8489, 69.1467, 15.2644



15.2032, 16.0203, 15.1954



25.5488, 23.6717, 3.2225



1.9699, 1.9130, 0.2654



# Inverse Universe

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



22.4633, 19.0306, 77.3516



23.4552, 17.0921, 96.6706



20.6377, 11.6281, 76.0190



13.9471, 14.6156, 18.2303



9.4798, 6.0218, 43.0458



0.7810, 0.6060, 3.2078



# Previews

## White Background



This preview shows how the XYZ color 49.4507, 49.0227, 11.5586 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 49.4507, 49.0227, 11.5586 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 49.4507, 49.0227, 11.5586**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.4507, 49.0227, 11.5586.



This preview shows how white text looks on a background with the XYZ color 49.4507, 49.0227,



# 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

49.4507, 49.0227, 11.5586

### Protanopia

44.7369, 49.3322, 12.1652

### Deuteranopia

50.2236, 49.1268, 11.5380



## Tritanopia

57.2153, 49.0692, 49.1036

# Trichromacy



## Original Color

49.4507, 49.0227, 11.5586

## Protanomaly

46.3848, 49.2501, 11.9120

## Deuteranomaly

49.8981, 48.9590, 11.5227

## Tritanomaly

53.3392, 48.5941, 30.2352

# Monochromacy



## Original Color

49.4507, 49.0227, 11.5586

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

43.9242, 46.0521, 30.2408

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.4507, 49.0227, 11.5586 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(230, 178, 63)` looks like.

```
.text, #text, p{  
    color:rgb(230, 178, 63)  
}
```

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(230, 178, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 178, 63) }
```

## Border

The CSS property to change the border of an element to XYZ 49.4507, 49.0227, 11.5586 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(230, 178, 63) }
```



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

```
.border{ border-color:rgb(230, 178, 63) }
```

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

Here you see how a box with a 4 pixel rgb(230, 178, 63) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 178, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 178, 63);  
box-shadow:4px 4px 4px 4px rgb(230, 178,  
63) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.4507, 49.0227, 11.5586 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 178, 63) }
```

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

```
.background{ background-color: rgb(230,  
178, 63) }
```

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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