

# Converting Colors

XYZ(50.0084, 46.3924, 15.4290)

Have a look what the booklet for  
XYZ(50.0084, 46.3924, 15.4290)  
contains.

<b>XYZ(49.9839, 46.3556, 15.3299)</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(49.9839, 46.3556,  
15.3299)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EBA857
RGB	235, 168, 87
RGB Percent	92%, 66%, 34%
CMY	0.0784, 0.3412, 0.6588
CMYK	0.00, 0.29, 0.63, 0.08
HSL	33°, 79%, 63%
HSV	33°, 63%, 92%
XYZ	49.9839, 46.3556, 15.3299
YIQ	178.7990, 65.9330, -10.9870

# Conversions

## Conversions Part 2

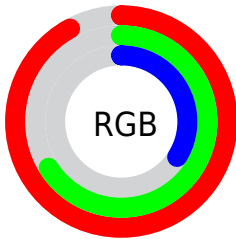
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	209, 235, 87
Decimal	15444055
CIE <sub>Lab</sub>	73.78, 16.62, 50.74
CIE <sub>LCh</sub>	74, 53.393, 71.864
Yxy	46.3556, 0.4476, 0.4151
Android (android.graphics.Color)	4293634135 (0xFFEBA857)
YUV	178.7990, -45.2569, 49.2883
Hunter-Lab	68.0849, 11.8954, 34.3098

# Details

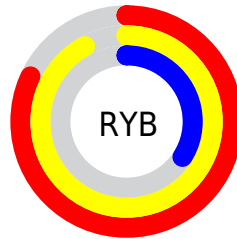
The XYZ color **49.9839, 46.3556, 15.3299** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **30.4808, 31.1341, 82.9998**, and the grayscale version is **42.9506, 45.1874, 49.2090**.

A 20% lighter version of the original color is **72.2879, 75.8994, 35.2662**, and **24.2430, 21.7321, 4.5860** is the 20% darker color. If you saturate the color by 10%, you get **47.2916, 42.2656, 10.4421**, and if you desaturate by 10%, it is **53.1515, 50.8965, 21.9183**.

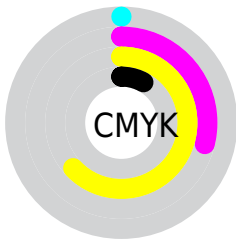
# Distribution



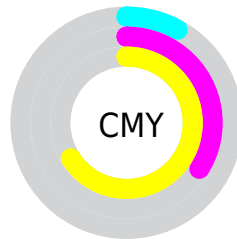
- Red (92%)
- Green (66%)
- Blue (34%)



- Red (82%)
- Yellow (92%)
- Blue (34%)



- Cyan (0%)
- Magenta (29%)
- Yellow (63%)
- Black (8%)




- Cyan (8%)
- Magenta (34%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9839, 46.3556, 15.3299 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 49.9839, 46.3556, 15.3299 by changing the saturation by 10% instead.





 49.9839, 46.3556,  
15.3299


 49.9839, 46.3556,  
15.3299


377.0560,  
372.2364, 237.0636


 35.6184, 32.5265,  
8.9021


 89.3430, 84.7509,  
36.1813


 24.3083, 21.7640,  
4.5814


 115.0672,  
110.0860, 51.4420


 15.6885, 13.6836,  
1.9494


 145.3084,  
140.0251, 70.4841

 9.3934, 7.9009,  
0.5239

 180.4319,  
174.9528, 93.7260

 5.0578, 4.0316,  
0.0000

 220.8031,  
215.2534, 121.5864

 2.3163, 1.6913,  
0.0000

266.7872,

 0.8030, 0.4180,

261.3112, 154.4838

0.0000

318.7498,  
313.5108, 192.8366

■ 0.0000, 0.0000,  
0.0000

■ 49.9839, 46.3556,  
15.3299

■ 49.9839, 46.3556,  
15.3299

■ 47.2916, 42.2656,  
10.4421

■ 53.1515, 50.8965,  
21.9183

■ 45.0358, 38.5993,  
7.0845

■ 56.8222, 55.8998,  
30.3499

■ 43.1755, 35.3358,  
5.0550

■ 61.0251, 61.3847,  
40.7556

■ 42.0615, 33.2636,  
4.2036

■ 65.7858, 67.3670,  
53.2530

■ 71.1280, 73.8614,  
67.9508

■ 77.0739, 80.8822,  
84.9498

■ 83.6446, 88.4429,  
104.3448

■ 87.4698, 95.2002,  
108.3731

■ 88.0708, 96.4021,  
108.5734

# Harmonies

## Analogous

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



59.0854, 46.3556, 23.0244



49.9839, 46.3556, 15.3299



40.4155, 46.3556, 14.6712

# Triad

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



49.9839, 46.3556, 15.3299



28.5129, 46.3556, 61.9911



57.3860, 46.3556, 100.2206

# Complementary

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



49.9839, 46.3556, 15.3299



30.4808, 31.1341, 82.9998

# 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.



47.9165, 46.3556, 120.7868



49.9839, 46.3556, 15.3299



31.8252, 46.3556, 93.9712

# Square

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



49.9839, 46.3556, 15.3299



28.9011, 46.3556, 35.8982



38.6230, 46.3556, 118.1598



63.7633, 46.3556, 68.5400



# Rectangle

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



49.9839, 46.3556, 15.3299



35.1160, 46.3556, 17.8396



38.6230, 46.3556, 118.1598



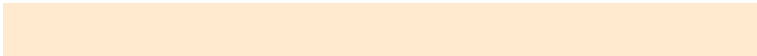
54.4057, 46.3556, 109.0993

# Sweetspot

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



49.9850, 46.3579, 15.3308



81.6058, 84.0596, 70.6675



43.6756, 26.8814, 34.3692



17.0827, 17.5213, 14.0802



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.



49.9850, 46.3579, 15.3308



55.9566, 49.3370, 11.0169



64.0829, 76.9384, 20.4904



15.7488, 16.4206, 15.8582



23.5387, 18.7716, 2.3826



1.9443, 1.6659, 0.2191



# Inverse Universe

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



30.4808, 31.1341, 82.9998



30.7226, 29.6900, 98.7192



22.8109, 15.0869, 80.3066



14.7928, 15.6720, 19.1676



11.3595, 9.3660, 44.9521



0.9869, 0.9253, 3.5615



# Previews

## White Background



This preview shows how the XYZ color 49.9839, 46.3556, 15.3299 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

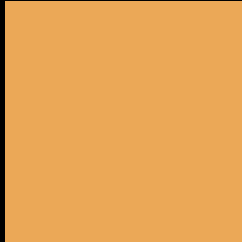
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9839, 46.3556, 15.3299 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

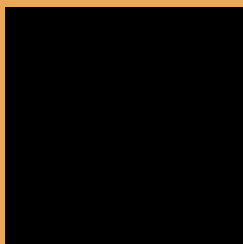
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.9839, 46.3556, 15.3299**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9839, 46.3556, 15.3299.



This preview shows how white text looks on a background with the XYZ color 49.9839, 46.3556,



# 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

49.9839, 46.3556, 15.3299

### Protanopia

42.7037, 46.6287, 16.6471

### Deuteranopia

47.3638, 46.4063, 15.2651



## Tritanopia

56.0245, 46.4373, 44.5386

# Trichromacy



## Original Color

49.9839, 46.3556, 15.3299

## Protanomaly

45.0082, 46.3286, 16.2430

## Deuteranomaly

48.2375, 46.2917, 15.1969

## Tritanomaly

53.2506, 46.0848, 30.8996

# Monochromacy



## Original Color

49.9839, 46.3556, 15.3299

## Achromatopsia

42.8472, 45.0786, 49.0906

## Achromatomaly

44.0715, 44.8774, 33.5335

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9839, 46.3556, 15.3299 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, 168, 87)` looks like.

```
.text, #text, p{  
    color:rgb(235, 168, 87)  
}
```

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, 168, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 168, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9839, 46.3556, 15.3299 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, 168, 87) }
```



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

```
.border{ border-color:rgb(235, 168, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 168, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 168, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 168, 87);  
box-shadow:4px 4px 4px 4px rgb(235, 168,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9839, 46.3556, 15.3299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 168, 87) }
```

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

```
.background{ background-color: rgb(235,  
168, 87) }
```

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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