

# Converting Colors

XYZ(46.9841, 43.5957, 5.9444)

Have a look what the booklet for  
XYZ(46.9841, 43.5957, 5.9444)  
contains.

<b>XYZ(47.0289, 43.6868, 5.9537)</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(47.0289, 43.6868,  
5.9537)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EAA300
RGB	234, 163, 0
RGB Percent	92%, 64%, 0%
CMY	0.0824, 0.3608, 0.9999
CMYK	0.00, 0.30, 1.00, 0.08
HSL	42°, 100%, 46%
HSV	42°, 100%, 92%
XYZ	47.0289, 43.6868, 5.9537
YIQ	165.6470, 94.6390, -35.6410

# Conversions

## Conversions Part 2

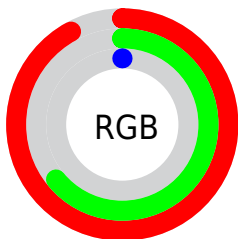
Format	Color
<a href="#">RYB</a>	<a href="#">102, 234, 0</a>
Decimal	<a href="#">15377152</a>
CIELab	<a href="#">72.02, 16.08, 75.85</a>
CIELCh	<a href="#">72, 77.531, 78.031</a>
Yxy	<a href="#">43.6868, 0.4865, 0.4519</a>
Android (android.graphics.Color)	<a href="#">4293567232</a> ( <a href="#">0xFFEAA300</a> )
YUV	<a href="#">165.6470, -81.6640, 59.9456</a>
Hunter-Lab	<a href="#">66.0960, 11.3391, 40.9266</a>

# Details

The XYZ color **47.0289, 43.6868, 5.9537** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **17.1051, 10.4481, 78.9565**, and the grayscale version is **36.4266, 38.3237, 41.7345**.

A 20% lighter version of the original color is **67.6865, 71.9529, 17.5286**, and **22.8074, 20.3590, 2.7276** is the 20% darker color. If you saturate the color by 10%, you get **47.0290, 43.6873, 5.9538**, and if you desaturate by 10%, it is **48.4849, 46.3451, 7.2227**.

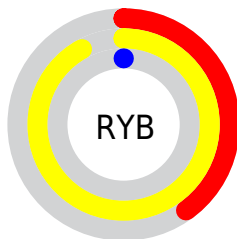
# Distribution



Red (92%)

Green (64%)

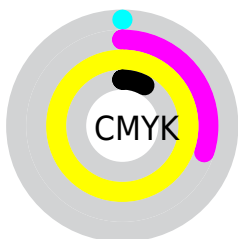
Blue (0%)



Red (40%)

Yellow (92%)

Blue (0%)

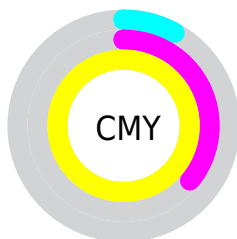


Cyan (0%)

Magenta (30%)

Yellow (100%)

Black (8%)



Cyan (8%)

Magenta (36%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.0289, 43.6868, 5.9537 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 47.0289, 43.6868, 5.9537 by changing the saturation by 10% instead.



47.0289, 43.6868,  
5.9537

47.0289, 43.6868,  
5.9537

365.5769,  
361.4287, 167.9490

33.2665, 30.4244,  
2.7486

84.9752, 80.7462,  
18.3107

22.4909, 20.1609,  
0.9678

109.8899,  
105.3120, 28.2997

14.3367, 12.5121,  
0.0000

139.2528,  
134.4144, 41.3871

8.4385, 7.0934,  
0.0000

173.4292,  
168.4377, 57.9915

4.4309, 3.5206,  
0.0000

212.7844,  
207.7664, 78.5313

1.9487, 1.4092,  
0.0000

257.6838,

0.6049, 0.2235,

252.7849, 103.4251

0.0000

308.4929,  
303.8775, 133.0915

0.0000, 0.0000,  
0.0000

47.0289, 43.6868,  
5.9537

47.0289, 43.6868,  
5.9537

47.0290, 43.6873,  
5.9538

48.4849, 46.3451,  
7.2227

50.2037, 49.2218,  
9.5245

52.2478, 52.3453,  
13.1799

54.6539, 55.7323,  
18.3761

57.4530, 59.3965,  
25.2708

■ 60.6720, 63.3506,  
34.0018

■ 64.3356, 67.6060,  
44.6927

■ 68.4660, 72.1731,  
57.4566

■ 73.0839, 77.0619,  
72.3975

# Harmonies

## Analogous

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



60.9786, 43.6868, 11.3448



47.0289, 43.6868, 5.9537



34.1312, 43.6868, 6.4672

# Triad

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



47.0289, 43.6868, 5.9537



21.7159, 43.6868, 73.8912



63.4715, 43.6868, 114.8739

# Complementary

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



47.0289, 43.6868, 5.9537



17.1051, 10.4481, 78.9565

# 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.



49.9116, 43.6868, 156.0231



47.0289, 43.6868, 5.9537



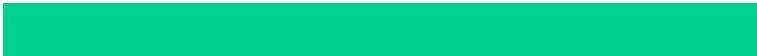
26.7201, 43.6868, 124.9704

# Square

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



47.0289, 43.6868, 5.9537



21.2667, 43.6868, 33.9940



36.4645, 43.6868, 160.4705



71.7361, 43.6868, 64.3446



# Rectangle

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



47.0289, 43.6868, 5.9537



27.7312, 43.6868, 10.1511



36.4645, 43.6868, 160.4705



59.2639, 43.6868, 131.2014

# Sweetspot

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



47.0299, 43.6890, 5.9545



78.1235, 82.0891, 54.1104



35.1714, 17.9885, 8.1164



16.3042, 17.0923, 10.3429



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.



47.0299, 43.6890, 5.9545



57.0870, 52.9541, 7.2123



50.9343, 69.9349, 10.8147



15.9438, 16.8107, 15.9232



26.5437, 24.7817, 3.3843



2.1683, 2.1139, 0.2937



# Inverse Universe

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



17.1051, 10.4481, 78.9565



20.7298, 12.5796, 95.9433



15.8439, 6.4525, 78.2517



14.6038, 15.2941, 19.1046



9.7086, 6.0642, 44.4018



0.8443, 0.6401, 3.5139



# Previews

## White Background



This preview shows how the XYZ color 47.0289, 43.6868, 5.9537 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 47.0289, 43.6868, 5.9537 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 47.0289, 43.6868, 5.9537**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.0289, 43.6868, 5.9537.



This preview shows how white text looks on a background with the XYZ color 47.0289, 43.6868,



# 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

47.0289, 43.6868, 5.9537

### Protanopia

39.6278, 43.7581, 6.8095

### Deuteranopia

44.7431, 43.8526, 6.1062



## Tritanopia

54.1147, 43.8016, 40.2527

# Trichromacy



## Original Color

47.0289, 43.6868, 5.9537

## Protanomaly

41.9587, 43.5240, 6.4767

## Deuteranomaly

45.6311, 43.7664, 6.0427

## Tritanomaly

49.6471, 42.9536, 18.7709

# Monochromacy



## Original Color

47.0289, 43.6868, 5.9537

## Achromatopsia

36.2450, 38.1326, 41.5264

## Achromatomaly

37.5425, 39.0272, 19.1900

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.0289, 43.6868, 5.9537 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(234, 163, 0)` looks like.

```
.text, #text, p{  
    color:rgb(234, 163, 0)  
}
```

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(234, 163, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 163, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 47.0289, 43.6868, 5.9537 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(234, 163, 0) }
```



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

```
.border{ border-color:rgb(234, 163, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 163, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 163, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 163, 0);  
box-shadow:4px 4px 4px 4px rgb(234, 163,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.0289, 43.6868, 5.9537 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 163, 0) }
```

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

```
.background{ background-color: rgb(234,  
163, 0) }
```

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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