

Converting Colors

XYZ(48.4247, 46.2939, 4.5737)

Have a look what the booklet for
XYZ(48.4247, 46.2939, 4.5737)
contains.

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Color

**XYZ(48.9668, 46.5823,
6.4105)**

Conversions

Conversions Part 1

Format	Color
Hex	ECAA00
RGB	236, 170, 0
RGB Percent	93%, 67%, 0%
CMY	0.0745, 0.3333, 0.9999
CMYK	0.00, 0.28, 1.00, 0.07
HSL	43°, 100%, 46%
HSV	43°, 100%, 93%
XYZ	48.9668, 46.5823, 6.4105
YIQ	170.3540, 93.9060, -38.8780

Conversions

Conversions Part 2

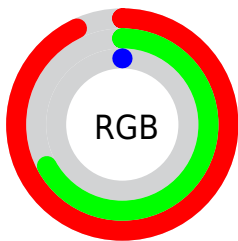
Format	Color
R _Y B	92, 236, 0
Decimal	15510016
CIE Lab	73.92, 13.23, 77.23
CIE LCh	74, 78.358, 80.277
Yxy	46.5823, 0.4803, 0.4569
Android (android.graphics.Color)	4293700096 (0xFFECAA00)
YUV	170.3540, -83.9845, 57.5715
Hunter-Lab	68.2512, 8.6251, 42.2070

Details

The XYZ color **48.9668, 46.5823, 6.4105** 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 **17.0893, 9.9539, 80.3768**, and the grayscale version is **38.7612, 40.7798, 44.4092**.

A 20% lighter version of the original color is **69.5765, 75.6749, 18.3368**, and **23.9340, 21.9555, 2.9764** is the 20% darker color. If you saturate the color by 10%, you get **48.9668, 46.5827, 6.4105**, and if you desaturate by 10%, it is **50.3972, 49.1861, 7.6811**.

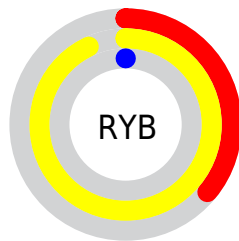
Distribution



Red (93%)

Green (67%)

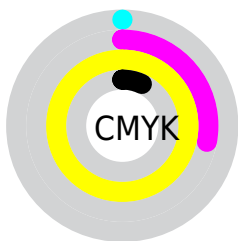
Blue (0%)



Red (36%)

Yellow (93%)

Blue (0%)

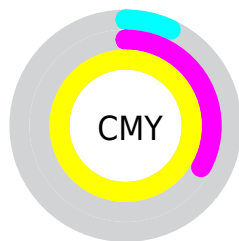


Cyan (0%)

Magenta (28%)

Yellow (100%)

Black (7%)



Cyan (7%)


Magenta (33%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 48.9668, 46.5823, 6.4105 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 48.9668, 46.5823, 6.4105 by changing the saturation by 10% instead.


 48.9668, 46.5823,
6.4105


 48.9668, 46.5823,
6.4105


373.1307,
373.1448, 172.1121


 34.8076, 32.7056,
3.0235


 87.8432, 85.0898,
19.2693

 23.6805, 21.9010,
1.1066


 113.2910,
110.4893, 29.5782


 15.2202, 13.7842,
0.0000


 143.2324,
140.4986, 43.0315

 9.0614, 7.9707,
0.0000

 178.0328,
175.5020, 60.0476

 4.8387, 4.0762,
0.0000

 218.0574,
215.8839, 81.0452

 2.1867, 1.7163,
0.0000

 263.6718,

 0.7357, 0.4342,

262.0288, 106.4428

0.0000

315.2411,
314.3209, 136.6589

■ 0.0000, 0.0000,
0.0000

■ 48.9668, 46.5823,
6.4105

■ 48.9668, 46.5823,
6.4105

■ 48.9668, 46.5827,
6.4105

■ 50.3972, 49.1861,
7.6811

■ 52.0853, 51.9918,
10.0027

■ 54.0947, 55.0282,
13.7011

■ 56.4625, 58.3115,
18.9677

■ 59.2201, 61.8556,
25.9632

■ 62.3949, 65.6727,
34.8286

■ 66.0116, 69.7741,
45.6899

■ 70.0929, 74.1700,
58.6624

■ 74.6596, 78.8701,
73.8524

Harmonies

Analogous

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



63.7488, 46.5823, 11.5843



48.9668, 46.5823, 6.4105



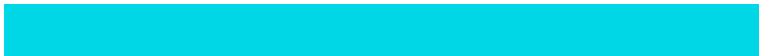
35.6059, 46.5823, 7.3775

Triad

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



48.9668, 46.5823, 6.4105



23.5612, 46.5823, 82.3125



68.3066, 46.5823, 117.4520

Complementary

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



48.9668, 46.5823, 6.4105



17.0893, 9.9539, 80.3768

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.



54.2483, 46.5823, 162.4636



48.9668, 46.5823, 6.4105



29.2358, 46.5823, 135.8435

Square

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



48.9668, 46.5823, 6.4105



22.7317, 46.5823, 38.8091



39.8930, 46.5823, 170.5495



76.3662, 46.5823, 64.8486

Rectangle

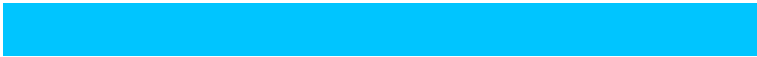
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.9668, 46.5823, 6.4105



29.0853, 46.5823, 11.7637



39.8930, 46.5823, 170.5495



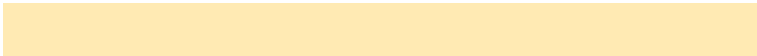
64.0025, 46.5823, 134.9245

Sweetspot

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



48.9678, 46.5846, 6.4114



78.6371, 83.1163, 54.2816



35.6015, 18.2369, 6.9350



16.4273, 17.3386, 10.3839



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.



48.9678, 46.5846, 6.4114



58.3159, 55.4117, 7.6220



49.9715, 70.2886, 10.9338



15.9752, 16.8735, 15.9336



27.1062, 25.9067, 3.5718



2.2089, 2.1951, 0.3073

Inverse Universe

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



17.0893, 9.9539, 80.3768



20.3231, 11.7662, 95.8077



16.5131, 6.7641, 79.7915



14.5741, 15.2347, 19.0947



9.5134, 5.6738, 44.3367



0.8258, 0.6031, 3.5078

Previews

White Background



This preview shows how the XYZ color 48.9668, 46.5823, 6.4105 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 48.9668, 46.5823, 6.4105 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 48.9668, 46.5823, 6.4105

Background



This preview shows how black text looks on a background with the XYZ color 48.9668, 46.5823, 6.4105.



This preview shows how white text looks on a background with the XYZ color 48.9668, 46.5823,

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

48.9668, 46.5823, 6.4105

Protanopia

42.1896, 46.8778, 7.2402

Deuteranopia

47.5767, 46.7101, 6.5084



Tritanopia

56.7908, 46.5891, 44.0296

Trichromacy



Original Color

48.9668, 46.5823, 6.4105

Protanomaly

44.2886, 46.4594, 6.8918

Deuteranomaly

48.0312, 46.6609, 6.4749

Tritanomaly

51.9027, 45.6241, 20.2581

Monochromacy



Original Color

48.9668, 46.5823, 6.4105

Achromatopsia

38.2080, 40.1978, 43.7754

Achromatomaly

39.3296, 41.3015, 20.0864

CSS Examples

Text

The CSS property to change the color of the text to XYZ 48.9668, 46.5823, 6.4105 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(236, 170, 0)` looks like.

```
.text, #text, p{  
    color:rgb(236, 170, 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(236, 170, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 170, 0) }
```

Border

The CSS property to change the border of an element to XYZ 48.9668, 46.5823, 6.4105 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(236, 170, 0) }
```


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

```
.border{ border-color:rgb(236, 170, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 170, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 170, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 170, 0);  
box-shadow:4px 4px 4px 4px rgb(236, 170,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 48.9668, 46.5823, 6.4105 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 170, 0) }
```

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

```
.background{ background-color: rgb(236,  
170, 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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