

Converting Colors

XYZ(49.8008, 46.4075, 6.3328)

Have a look what the booklet for
XYZ(49.8008, 46.4075, 6.3328)
contains.

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Color

**XYZ(49.9378, 46.5305,
6.3493)**

Conversions

Conversions Part 1

Format	Color
Hex	F0A800
RGB	240, 168, 0
RGB Percent	94%, 66%, 0%
CMY	0.0588, 0.3412, 0.9999
CMYK	0.00, 0.30, 1.00, 0.06
HSL	42°, 100%, 47%
HSV	42°, 100%, 94%
XYZ	49.9378, 46.5305, 6.3493
YIQ	170.3760, 96.8400, -36.9840

Conversions

Conversions Part 2

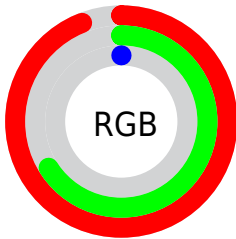
Format	Color
RYB	103, 240, 0
Decimal	15771648
CIELab	73.89, 16.01, 77.42
CIElCh	74, 79.061, 78.317
Yxy	46.5305, 0.4857, 0.4526
Android (android.graphics.Color)	4293961728 (0xFFFF0A800)
YUV	170.3760, -83.9954, 61.0602
Hunter-Lab	68.2133, 11.3037, 42.2306

Details

The XYZ color **49.9378, 46.5305, 6.3493** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle saturated orange. A complement of this color would be **18.0463, 10.9273, 83.5954**, and the grayscale version is **38.7712, 40.7904, 44.4207**.

A 20% lighter version of the original color is **69.0390, 74.5999, 18.1576**, and **24.6055, 21.9558, 2.9410** is the 20% darker color. If you saturate the color by 10%, you get **49.9378, 46.5309, 6.3494**, and if you desaturate by 10%, it is **51.4701, 49.3315, 7.6742**.

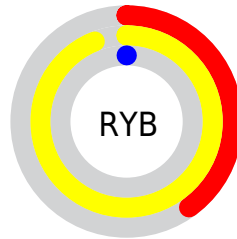
Distribution



Red (94%)

Green (66%)

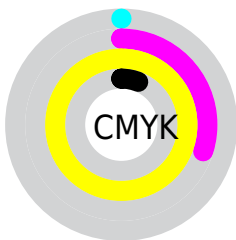
Blue (0%)



Red (40%)

Yellow (94%)

Blue (0%)

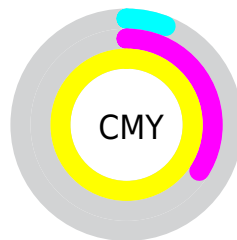


Cyan (0%)

Magenta (30%)

Yellow (100%)

Black (6%)



Cyan (6%)


Magenta (34%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.9378, 46.5305, 6.3493 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 49.9378, 46.5305, 6.3493 by changing the saturation by 10% instead.


 49.9378, 46.5305,
6.3493


 49.9378, 46.5305,
6.3493

376.8787,
372.9373, 171.5622


 35.5816, 32.6647,
2.9864


 89.2751, 85.0124,
19.1417

 24.2798, 21.8697,
1.0877


 114.9869,
110.3972, 29.4084

 15.6672, 13.7612,
0.0000


 145.2145,
140.3905, 42.8134

 9.3783, 7.9547,
0.0000

 180.3234,
175.3766, 59.7752

 5.0478, 4.0660,
0.0000

 220.6789,
215.7399, 80.7125

 2.3104, 1.7106,
0.0000

 266.6464,

 0.8000, 0.4305,

261.8649, 106.0437

0.0000

318.5912,
314.1359, 136.1874

■ 0.0000, 0.0000,
0.0000

■ 49.9378, 46.5305,
6.3493

■ 49.9378, 46.5305,
6.3493

■ 49.9378, 46.5309,
6.3494

■ 51.4701, 49.3315,
7.6742

■ 53.2800, 52.3612,
10.0967

■ 55.4334, 55.6496,
13.9536

■ 57.9691, 59.2143,
19.4446

■ 60.9202, 63.0699,
26.7375

■ 64.3155, 67.2298,
35.9791

■ 68.1809, 71.7060,
47.3010

■ 72.5401, 76.5096,
60.8233

■ 77.4153, 81.6510,
76.6569

Harmonies

Analogous

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



64.7837, 46.5305, 12.0168



49.9378, 46.5305, 6.3493



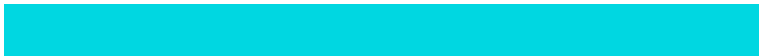
36.2513, 46.5305, 6.9488

Triad

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



49.9378, 46.5305, 6.3493



23.1814, 46.5305, 79.1472



67.6833, 46.5305, 121.6970

Complementary

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



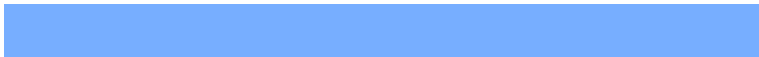
49.9378, 46.5305, 6.3493



18.0463, 10.9273, 83.5954

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.



53.2917, 46.5305, 165.6744



49.9378, 46.5305, 6.3493



28.5543, 46.5305, 133.4350

Square

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



49.9378, 46.5305, 6.3493



22.6582, 46.5305, 36.5290



38.9670, 46.5305, 170.8436



76.3895, 46.5305, 68.0425

Rectangle

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



49.9378, 46.5305, 6.3493



29.4740, 46.5305, 10.9296



38.9670, 46.5305, 170.8436



63.2251, 46.5305, 139.0963

Sweetspot

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



49.9388, 46.5329, 6.3502



78.1971, 82.2362, 54.1349



37.1052, 18.9935, 7.8434



16.3218, 17.1275, 10.3488



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.



49.9388, 46.5329, 6.3502



57.2605, 53.3010, 7.2702



52.8988, 73.5265, 11.4045



16.6993, 17.6118, 16.6690



27.4589, 25.7158, 3.5164



2.3709, 2.3125, 0.3214

Inverse Universe

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



18.0463, 10.9273, 83.5954



20.6689, 12.4577, 95.9230



16.9478, 6.9203, 82.8799



15.2838, 16.0017, 20.0047



9.9798, 6.1838, 45.7955



0.9141, 0.6821, 3.8377

Previews

White Background



This preview shows how the XYZ color 49.9378, 46.5305, 6.3493 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 49.9378, 46.5305, 6.3493 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 49.9378, 46.5305, 6.3493

Background



This preview shows how black text looks on a background with the XYZ color 49.9378, 46.5305, 6.3493.



This preview shows how white text looks on a background with the XYZ color 49.9378, 46.5305,

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

49.9378, 46.5305, 6.3493

Protanopia

41.9910, 46.4695, 7.2083

Deuteranopia

47.5767, 46.7101, 6.5084



Tritanopia

57.3141, 46.3782, 42.9769

Trichromacy



Original Color

49.9378, 46.5305, 6.3493

Protanomaly

44.6904, 46.3716, 6.8823

Deuteranomaly

48.4946, 46.6182, 6.4423

Tritanomaly

52.5329, 45.4362, 19.9112

Monochromacy



Original Color

49.9378, 46.5305, 6.3493

Achromatopsia

38.2080, 40.1978, 43.7754

Achromatomaly

39.4004, 41.0607, 20.0362

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.9378, 46.5305, 6.3493 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(240, 168, 0)` looks like.

```
.text, #text, p{  
    color:rgb(240, 168, 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(240, 168, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 168, 0) }
```

Border

The CSS property to change the border of an element to XYZ 49.9378, 46.5305, 6.3493 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(240, 168, 0) }
```


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

```
.border{ border-color:rgb(240, 168, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(240, 168, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 168, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 168, 0);  
box-shadow:4px 4px 4px 4px rgb(240, 168,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 49.9378, 46.5305, 6.3493 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 168, 0) }
```

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

```
.background{ background-color: rgb(240,  
168, 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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