

Converting Colors

XYZ(49.8258, 41.1801, 5.3225)

Have a look what the booklet for
XYZ(49.8258, 41.1801, 5.3225)
contains.

XYZ(49.8581, 41.1914, 5.3229)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(49.8581, 41.1914,
5.3229)**

Conversions

Conversions Part 1

Format	Color
Hex	FA9300
RGB	250, 147, 0
RGB Percent	98%, 58%, 0%
CMY	0.0196, 0.4235, 1.0000
CMYK	0.00, 0.41, 1.00, 0.02
HSL	35°, 100%, 49%
HSV	35°, 100%, 98%
XYZ	49.8581, 41.1914, 5.3229
YIQ	161.0390, 108.5750, -23.8810

Conversions

Conversions Part 2

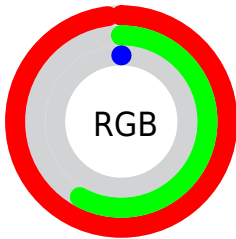
Format	Color
RYB	175, 250, 0
Decimal	16421632
CIELab	70.31, 31.22, 75.68
CIELCh	70, 81.867, 67.583
Yxy	41.1914, 0.5173, 0.4274
Android (android.graphics.Color)	4294611712 (0xFFFA9300)
YUV	161.0390, -79.3922, 78.0188
Hunter-Lab	64.1805, 26.3503, 40.0091

Details

The XYZ color **49.8581, 41.1914, 5.3229** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **22.1060, 16.6034, 92.4816**, and the grayscale version is **34.2184, 36.0004, 39.2045**.

A 20% lighter version of the original color is **63.4312, 63.5551, 15.7617**, and **24.6764, 18.9305, 2.3534** is the 20% darker color. If you saturate the color by 10%, you get **49.8582, 41.1921, 5.3230**, and if you desaturate by 10%, it is **51.7087, 44.6120, 6.8060**.

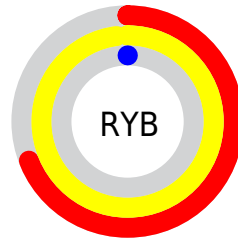
Distribution



Red (98%)

Green (58%)

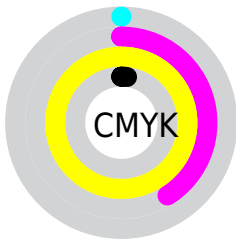
Blue (0%)



Red (69%)

Yellow (98%)

Blue (0%)

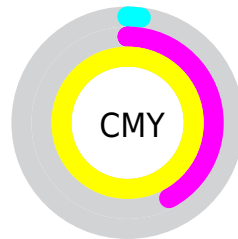


Cyan (0%)

Magenta (41%)

Yellow (100%)

Black (2%)



Cyan (2%)


Magenta (42%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.8581, 41.1914, 5.3229 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 49.8581, 41.1914, 5.3229 by changing the saturation by 10% instead.


 49.8581, 41.1914,
5.3229


 49.8581, 41.1914,
5.3229


376.5719,
351.1199, 161.9567


 35.5180, 28.4687,
2.3759


 89.1577, 76.9744,
16.9612


 24.2305, 18.6792,
0.7733


 114.8479,
100.8034, 26.4895

 15.6304, 11.4387,
0.0000


 145.0521,
129.1033, 39.0487

 9.3522, 6.3628,
0.0000

 180.1358,
162.2585, 55.0573

 5.0305, 3.0669,
0.0000

 220.4643,
200.6533, 74.9339


 2.3001, 1.1668,
0.0000


 266.4029,


 0.7947, 0.0343,


244.6723, 99.0970


0.0000


 318.3170,
294.6997, 127.9650


 0.0000, 0.0000,
0.0000


 49.8581, 41.1914,
5.3229


 49.8581, 41.1914,
5.3229


 49.8582, 41.1921,
5.3230

 51.7087, 44.6120,
6.8060

 53.9302, 48.4145,
9.5214

 56.5962, 52.6355,
13.8354

 59.7522, 57.2987,
19.9700

 63.4364, 62.4246,
28.1115

67.6828, 68.0317,
38.4231

72.5220, 74.1373,
51.0508

77.9822, 80.7574,
66.1281

84.0894, 87.9070,
83.7779

Harmonies

Analogous

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



63.4136, 41.1914, 13.1577



49.8581, 41.1914, 5.3229



35.8386, 41.1914, 4.2154

Triad

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



49.8581, 41.1914, 5.3229



18.7129, 41.1914, 55.3445



57.1256, 41.1914, 132.8031

Complementary

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



49.8581, 41.1914, 5.3229



22.1060, 16.6034, 92.4816

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.



42.6618, 41.1914, 165.5138



49.8581, 41.1914, 5.3229



22.0328, 41.1914, 106.8400

Square

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



49.8581, 41.1914, 5.3229



19.7888, 41.1914, 22.1300



30.0986, 41.1914, 153.9799



68.2348, 41.1914, 79.4155

Rectangle

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



49.8581, 41.1914, 5.3229



28.3615, 41.1914, 6.0332



30.0986, 41.1914, 153.9799



52.3797, 41.1914, 147.6525

Sweetspot

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



49.8590, 41.1936, 5.3236



75.8431, 77.5282, 53.3503



41.9317, 21.3271, 15.0494



15.7598, 16.0036, 10.1614



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.



49.8590, 41.1936, 5.3236



52.1372, 43.0545, 5.5624



66.5519, 85.0563, 12.9102



18.0929, 18.9216, 18.1610



26.5917, 22.1401, 2.8719



2.5673, 2.2594, 0.3008

Inverse Universe

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



22.1060, 16.6034, 92.4816



23.1074, 17.3348, 96.7358



17.5613, 7.0601, 90.8791



16.8704, 17.8176, 21.9353



11.8589, 9.0733, 49.0999



1.1999, 1.0435, 4.5814

Previews

White Background



This preview shows how the XYZ color 49.8581, 41.1914, 5.3229 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 49.8581, 41.1914, 5.3229 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 49.8581, 41.1914, 5.3229

Background



This preview shows how black text looks on a background with the XYZ color 49.8581, 41.1914, 5.3229.



This preview shows how white text looks on a background with the XYZ color 49.8581, 41.1914,

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

49.8581, 41.1914, 5.3229

Protanopia

37.3092, 41.4035, 6.6414

Deuteranopia

42.1889, 41.4563, 5.7783



Tritanopia

55.4521, 41.2579, 32.6447

Trichromacy



Original Color

49.8581, 41.1914, 5.3229

Protanomaly

41.0734, 40.8736, 6.0724

Deuteranomaly

44.8600, 41.2767, 5.6028

Tritanomaly

52.0533, 40.7406, 15.7099

Monochromacy



Original Color

49.8581, 41.1914, 5.3229

Achromatopsia

33.8758, 35.6400, 38.8120

Achromatomaly

36.2791, 36.0737, 17.6212

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.8581, 41.1914, 5.3229 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(250, 147, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 147, 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(250, 147, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 147, 0) }
```

Border

The CSS property to change the border of an element to XYZ 49.8581, 41.1914, 5.3229 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(250, 147, 0) }
```


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

```
.border{ border-color:rgb(250, 147, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(250, 147, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 147, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 147, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 147,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 49.8581, 41.1914, 5.3229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 147, 0) }
```

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

```
.background{ background-color: rgb(250,  
147, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor