

Converting Colors

XYZ(49.6305, 37.6953, 5.7926)

Have a look what the booklet for
XYZ(49.6305, 37.6953, 5.7926)
contains.

XYZ(49.5781, 37.5813, 5.8033)	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(49.5781, 37.5813,
5.8033)**

Conversions

Conversions Part 1

Format	Color
Hex	FF831D
RGB	255, 131, 29
RGB Percent	100%, 51%, 11%
CMY	0.0000, 0.4862, 0.8863
CMYK	0.00, 0.49, 0.89, 0.00
HSL	27°, 100%, 56%
HSV	27°, 89%, 100%
XYZ	49.5781, 37.5813, 5.8033
YIQ	156.4480, 106.6460, -5.4340

Conversions

Conversions Part 2

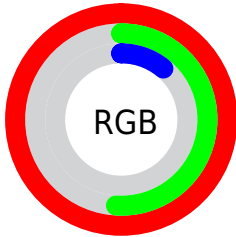
Format	Color
R_{YB}	255, 215, 29
Decimal	16745245
CIE _{Lab}	67.71, 41.67, 69.06
CIE _{LCh}	68, 80.658, 58.897
Yxy	37.5813, 0.5333, 0.4043
Android (android.graphics.Color)	4294935325 (0xFFFF831D)
YUV	156.4480, -62.8319, 86.4301
Hunter-Lab	61.3036, 37.0772, 37.2998

Details

The XYZ color **49.5781, 37.5813, 5.8033** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **29.9473, 30.2625, 98.8699**, and the grayscale version is **32.0407, 33.7093, 36.7094**.

A 20% lighter version of the original color is **60.4786, 57.0497, 16.6282**, and **24.2818, 16.6683, 1.9375** is the 20% darker color. If you saturate the color by 10%, you get **47.6223, 33.9942, 4.1522**, and if you desaturate by 10%, it is **52.0427, 41.7813, 8.8742**.

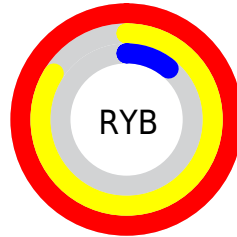
Distribution



Red (100%)

Green (51%)

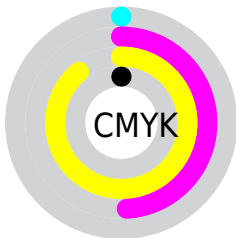
Blue (11%)



Red (100%)

Yellow (84%)

Blue (11%)

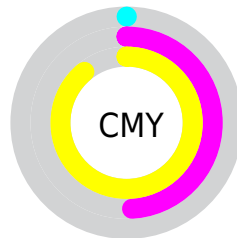


Cyan (0%)

Magenta (49%)

Yellow (89%)

Black (0%)



Cyan (0%)


Magenta (49%)


Yellow (89%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 49.5781, 37.5813, 5.8033 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 49.5781, 37.5813, 5.8033 by changing the saturation by 10% instead.


 49.5781, 37.5813,
5.8033


 49.5781, 37.5813,
5.8033


375.4931,
335.8204, 166.5473


 35.2947, 25.6579,
2.6590


 88.7450, 71.4659,
17.9918

 24.0576, 16.5679,
0.9227


 114.3593, 94.1959,
27.8731

 15.5013, 9.9269,
0.0000


 144.4812,
121.2969, 40.8371

 9.2606, 5.3505,
0.0000

 179.4761,
153.1533, 57.3024

 4.9700, 2.4543,
0.0000

 219.7094,
190.1494, 77.6875

 2.2642, 0.8536,
0.0000

 265.5464,

 0.7763, 0.0000,

232.6697, 102.4110

0.0000

317.3525,
281.0986, 131.8914

■ 0.0000, 0.0000,
0.0000

■ 49.5781, 37.5813,
5.8033

■ 49.5781, 37.5813,
5.8033

■ 47.6223, 33.9942,
4.1522

■ 52.0427, 41.7813,
8.8742

■ 47.3812, 33.5429,
3.9772

■ 55.0841, 46.6316,
13.6879

■ 58.7552, 52.1695,
20.4741

■ 63.1007, 58.4266,
29.4261

■ 68.1607, 65.4321,
40.7143

73.9716, 73.2133,
54.4914

80.5671, 81.7958,
70.8973

87.9785, 91.2037,
90.0613

95.0497, 99.9998,
108.9000

Harmonies

Analogous

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



61.0637, 37.5813, 15.9148



49.5781, 37.5813, 5.8033



36.1830, 37.5813, 3.5156

Triad

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



49.5781, 37.5813, 5.8033



16.7239, 37.5813, 39.6133



48.5910, 37.5813, 135.1599

Complementary

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



49.5781, 37.5813, 5.8033



29.9473, 30.2625, 98.8699

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.



35.2608, 37.5813, 154.9731



49.5781, 37.5813, 5.8033



18.5847, 37.5813, 83.8302

Square

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



49.5781, 37.5813, 5.8033



18.8845, 37.5813, 14.7269



24.7195, 37.5813, 132.2522



60.4069, 37.5813, 87.5740

Rectangle

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



49.5781, 37.5813, 5.8033



28.5099, 37.5813, 4.2830



24.7195, 37.5813, 132.2522



44.0532, 37.5813, 146.1913

Sweetspot

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



49.5789, 37.5834, 5.8039



74.9899, 74.5536, 56.9759



47.4539, 24.4487, 32.4859



15.5984, 15.3604, 11.0954



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.



49.5789, 37.5834, 5.8039



47.3816, 33.5431, 3.9772



73.7219, 85.8693, 13.8516



18.6845, 19.3372, 18.8920



24.9023, 17.8158, 2.1263



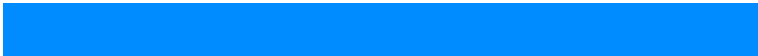
2.5320, 1.9493, 0.2428

Inverse Universe

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



29.9473, 30.2625, 98.8699



27.4142, 25.9485, 98.1714



19.3258, 9.0195, 95.3294



17.8291, 19.0299, 22.9834



14.4758, 13.8613, 51.3471



1.5186, 1.5680, 5.0359

Previews

White Background



This preview shows how the XYZ color 49.5781, 37.5813, 5.8033 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 49.5781, 37.5813, 5.8033 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 49.5781, 37.5813, 5.8033

Background



This preview shows how black text looks on a background with the XYZ color 49.5781, 37.5813, 5.8033.



This preview shows how white text looks on a background with the XYZ color 49.5781, 37.5813,

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

49.5781, 37.5813, 5.8033

Protanopia

34.2358, 37.8515, 7.3354

Deuteranopia

38.3515, 37.6693, 5.2496



Tritanopia

52.8073, 37.6207, 26.6686

Trichromacy



Original Color

49.5781, 37.5813, 5.8033

Protanomaly

38.5586, 36.7527, 6.6518

Deuteranomaly

42.0143, 37.3727, 5.3159

Tritanomaly

50.8949, 37.2650, 15.3369

Monochromacy



Original Color

49.5781, 37.5813, 5.8033

Achromatopsia

31.5995, 33.2452, 36.2040

Achromatomaly

34.9864, 33.1997, 19.3160

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.5781, 37.5813, 5.8033 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(255, 131, 29)` looks like.

```
.text, #text, p{  
    color:rgb(255, 131, 29)  
}
```

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(255, 131, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 131, 29) }
```

Border

The CSS property to change the border of an element to XYZ 49.5781, 37.5813, 5.8033 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(255, 131, 29) }
```


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

```
.border{ border-color:rgb(255, 131, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 131, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 131, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 131, 29);  
box-shadow:4px 4px 4px 4px rgb(255, 131,  
29) }
```

Background

The CSS property to change the background color of an element to XYZ 49.5781, 37.5813, 5.8033 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 131, 29) }
```

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

```
.background{ background-color: rgb(255,  
131, 29) }
```

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