

Converting Colors

XYZ(49.7366, 37.8105, 6.1268)

Have a look what the booklet for
XYZ(49.7366, 37.8105, 6.1268)
contains.

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Color

**XYZ(49.7658, 37.8723,
6.1260)**

Conversions

Conversions Part 1

Format	Color
Hex	FF8421
RGB	255, 132, 33
RGB Percent	100%, 52%, 13%
CMY	0.0000, 0.4823, 0.8706
CMYK	0.00, 0.48, 0.87, 0.00
HSL	27°, 100%, 56%
HSV	27°, 87%, 100%
XYZ	49.7658, 37.8723, 6.1260
YIQ	157.4910, 105.0870, -4.7130

Conversions

Conversions Part 2

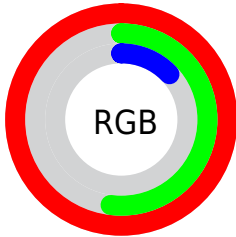
Format	Color
R_{YB}	255, 212, 33
Decimal	16745505
CIE _{Lab}	67.93, 41.24, 68.06
CIE _{LCh}	68, 79.585, 58.786
Yxy	37.8723, 0.5308, 0.4039
Android (android.graphics.Color)	4294935585 (0xFFFF8421)
YUV	157.4910, -61.3741, 85.5154
Hunter-Lab	61.5405, 36.6514, 37.1764

Details

The XYZ color **49.7658, 37.8723, 6.1260** 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 **30.5650, 31.3188, 99.0413**, and the grayscale version is **32.5057, 34.1986, 37.2422**.

A 20% lighter version of the original color is **60.8135, 57.5219, 17.3488**, and **24.3545, 16.8137, 1.9617** is the 20% darker color. If you saturate the color by 10%, you get **47.7452, 34.2050, 4.3013**, and if you desaturate by 10%, it is **52.3161, 42.1701, 9.4529**.

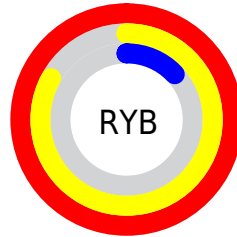
Distribution



Red (100%)

Green (52%)

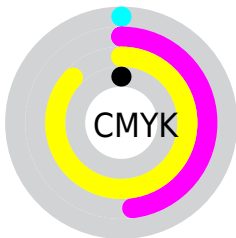
Blue (13%)



Red (100%)

Yellow (83%)

Blue (13%)

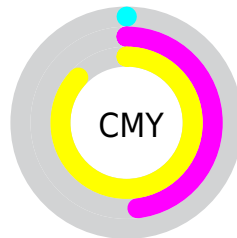


Cyan (0%)

Magenta (48%)

Yellow (87%)

Black (0%)



Cyan (0%)


Magenta (48%)


Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7658, 37.8723, 6.1260 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 49.7658, 37.8723, 6.1260 by changing the saturation by 10% instead.


 49.7658, 37.8723,
6.1260


 49.7658, 37.8723,
6.1260


376.2165,
337.0719, 169.5354

 35.4444, 25.8836,
2.8518


 89.0217, 71.9124,
18.6740


 24.1735, 16.7366,
1.0195


 114.6868, 94.7325,
28.7850


 15.5878, 10.0469,
0.0000


 144.8640,
121.9319, 42.0119

 9.3219, 5.4300,
0.0000

 179.9184,
153.8950, 58.7734

 5.0106, 2.5017,
0.0000

 220.2156,
191.0061, 79.4879

 2.2883, 0.8775,
0.0000

 266.1207,

 0.7887, 0.0000,

233.6497, 104.5741

0.0000

317.9992,
282.2102, 134.4504

■ 0.0000, 0.0000,
0.0000

■ 49.7658, 37.8723,
6.1260

■ 49.7658, 37.8723,
6.1260

■ 47.7452, 34.2050,
4.3013

■ 52.3161, 42.1701,
9.4529

■ 47.2258, 33.2320,
3.9253

■ 55.4566, 47.1330,
14.5631

■ 59.2389, 52.7982,
21.6795

■ 63.7074, 59.1976,
30.9917

■ 68.9016, 66.3606,
42.6667

74.8577, 74.3144,
56.8552

81.6092, 83.0851,
73.6954

89.1876, 92.6970,
93.3152

95.0497, 99.9999,
108.9000

Harmonies

Analogous

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



61.0912, 37.8723, 16.3840



49.7658, 37.8723, 6.1260



36.5023, 37.8723, 3.7608

Triad

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



49.7658, 37.8723, 6.1260



17.0854, 37.8723, 39.8113



48.6914, 37.8723, 134.2324

Complementary

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



49.7658, 37.8723, 6.1260



30.5650, 31.3188, 99.0413

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.



35.4953, 37.8723, 153.5229



49.7658, 37.8723, 6.1260



18.9313, 37.8723, 83.4435

Square

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



49.7658, 37.8723, 6.1260



19.2613, 37.8723, 15.0709



25.0347, 37.8723, 131.0901



60.3776, 37.8723, 87.5033

Rectangle

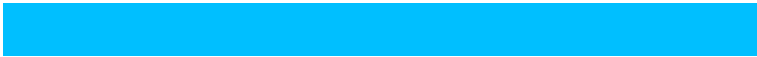
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.7658, 37.8723, 6.1260



28.8750, 37.8723, 4.5405



25.0347, 37.8723, 131.0901



44.2020, 37.8723, 145.0153

Sweetspot

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



49.7666, 37.8744, 6.1267



75.5337, 75.2030, 58.5081



48.0245, 24.8441, 34.9748



15.7006, 15.4809, 11.3877



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.



49.7666, 37.8744, 6.1267



47.2261, 33.2322, 3.9254



72.7332, 83.8074, 13.7822



18.6762, 19.3207, 18.8892



24.8203, 17.6519, 2.0990



2.5237, 1.9327, 0.2400

Inverse Universe

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



30.5650, 31.3188, 99.0413



27.6158, 26.3516, 98.2386



19.7262, 9.6413, 95.4284



17.8375, 19.0467, 22.9862



14.5812, 14.0720, 51.3822



1.5288, 1.5883, 5.0393

Previews

White Background



This preview shows how the XYZ color 49.7658, 37.8723, 6.1260 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 49.7658, 37.8723, 6.1260 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 49.7658, 37.8723, 6.1260

Background



This preview shows how black text looks on a background with the XYZ color 49.7658, 37.8723, 6.1260.



This preview shows how white text looks on a background with the XYZ color 49.7658, 37.8723,

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

49.7658, 37.8723, 6.1260

Protanopia

34.3038, 37.8787, 7.6938

Deuteranopia

38.7080, 37.8446, 5.6454



Tritanopia

53.0039, 37.9029, 27.0766

Trichromacy



Original Color

49.7658, 37.8723, 6.1260

Protanomaly

38.7858, 37.1066, 7.0375

Deuteranomaly

42.0802, 37.3991, 5.6627

Tritanomaly

51.1168, 37.5614, 15.8652

Monochromacy



Original Color

49.7658, 37.8723, 6.1260

Achromatopsia

32.0474, 33.7164, 36.7171

Achromatomaly

35.5069, 33.6871, 19.9601

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.7658, 37.8723, 6.1260 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, 132, 33)` looks like.

```
.text, #text, p{  
    color:rgb(255, 132, 33)  
}
```

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, 132, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 132, 33) }
```

Border

The CSS property to change the border of an element to XYZ 49.7658, 37.8723, 6.1260 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, 132, 33) }
```


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

```
.border{ border-color:rgb(255, 132, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 132, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 132, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 132, 33);  
box-shadow:4px 4px 4px 4px rgb(255, 132,  
33) }
```

Background

The CSS property to change the background color of an element to XYZ 49.7658, 37.8723, 6.1260 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 132, 33) }
```

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

```
.background{ background-color: rgb(255,  
132, 33) }
```

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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