

Converting Colors

XYZ(49.7159, 37.2547, 7.7055)

Have a look what the booklet for
XYZ(49.7159, 37.2547, 7.7055)
contains.

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Color

**XYZ(49.6878, 37.1995,
7.6934)**

Conversions

Conversions Part 1

Format	Color
Hex	FF8133
RGB	255, 129, 51
RGB Percent	100%, 51%, 20%
CMY	0.0000, 0.4941, 0.8000
CMYK	0.00, 0.49, 0.80, 0.00
HSL	23°, 100%, 60%
HSV	23°, 80%, 100%
XYZ	49.6878, 37.1995, 7.6934
YIQ	157.7820, 100.1340, 2.4540

Conversions

Conversions Part 2

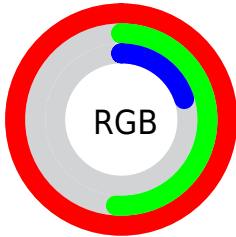
Format	Color
R_{YB}	255, 177, 51
Decimal	16744755
CIE _{Lab}	67.43, 43.19, 61.16
CIE _{LCh}	67, 74.868, 54.770
Yxy	37.1995, 0.5253, 0.3933
Android (android.graphics.Color)	4294934835 (0xFFFF8133)
YUV	157.7820, -52.6435, 85.2602
Hunter-Lab	60.9914, 38.6835, 35.2152

Details

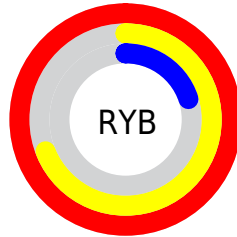
The XYZ color **49.6878, 37.1995, 7.6934** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **35.1362, 39.3658, 100.3535**, and the grayscale version is **32.6010, 34.2988, 37.3514**.

A 20% lighter version of the original color is **60.8287, 56.5203, 20.5354**, and **24.1397, 16.3841, 1.8901** is the 20% darker color. If you saturate the color by 10%, you get **47.3547, 33.2003, 4.8608**, and if you desaturate by 10%, it is **52.6501, 41.9653, 12.2547**.

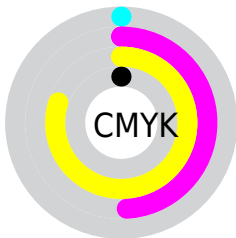
Distribution



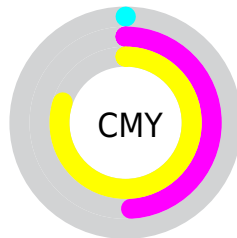
- Red (100%)
- Green (51%)
- Blue (20%)



- Red (100%)
- Yellow (69%)
- Blue (20%)



- Cyan (0%)
- Magenta (49%)
- Yellow (80%)
- Black (0%)





- Cyan (0%)
- Magenta (49%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.6878, 37.1995, 7.6934 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 49.6878, 37.1995, 7.6934 by changing the saturation by 10% instead.


 49.6878, 37.1995,
7.6934


 49.6878, 37.1995,
7.6934


375.9160,
334.1734, 183.1509


 35.3822, 25.3620,
3.8144


 88.9067, 70.8795,
21.8913

 24.1253, 16.3470,
1.5241


 114.5507, 93.4908,
33.0474

 15.5518, 9.7700,
0.2358


 144.7049,
120.4621, 47.4662

 9.2964, 5.2467,
0.0000

 179.7347,
152.1779, 65.5663

 4.9937, 2.3927,
0.0000

 220.0053,
189.0226, 87.7663

 2.2783, 0.8222,
0.0000

 265.8821,

 0.7835, 0.0000,

231.3804, 114.4847

0.0000

317.7306,
279.6359, 146.1401

■ 0.0000, 0.0000,
0.0000

■ 49.6878, 37.1995,
7.6934

■ 49.6878, 37.1995,
7.6934

■ 47.3547, 33.2003,
4.8608

■ 52.6501, 41.9653,
12.2547

■ 45.5617, 29.9038,
3.3707

■ 56.2969, 47.5367,
18.7794

■ 45.5615, 29.9034,
3.3706

■ 60.6788, 53.9562,
27.4674

■ 65.8403, 61.2611,
38.4925

■ 71.8220, 69.4862,
52.0113

■ 78.6613, 78.6641,
68.1661

■ 86.3932, 88.8258,
87.0887

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.



59.4390, 37.1995, 19.3637



49.6878, 37.1995, 7.6934



37.4086, 37.1995, 4.5262

Triad

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



49.6878, 37.1995, 7.6934



17.6094, 37.1995, 35.0078



45.4403, 37.1995, 129.3497

Complementary

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



49.6878, 37.1995, 7.6934



35.1362, 39.3658, 100.3535

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.



33.3819, 37.1995, 141.7754



49.6878, 37.1995, 7.6934



18.8566, 37.1995, 73.2019

Square

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



49.6878, 37.1995, 7.6934



20.2117, 37.1995, 13.8775



24.0863, 37.1995, 117.2455



56.6380, 37.1995, 89.0402

Rectangle

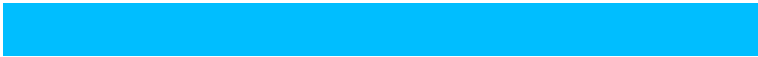
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.6878, 37.1995, 7.6934



30.0205, 37.1995, 4.9633



24.0863, 37.1995, 117.2455



41.2912, 37.1995, 137.6062

Sweetspot

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



49.6886, 37.2015, 7.6940



75.8201, 74.8760, 61.3776



50.6823, 26.9312, 45.8142



15.7123, 15.3324, 11.9218



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.



49.6886, 37.2015, 7.6940



46.2269, 31.1443, 3.8679



69.5256, 76.8755, 14.3064



18.5787, 19.1256, 18.8567



23.9400, 15.8911, 1.8055



2.4326, 1.7505, 0.2097

Inverse Universe

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



35.1362, 39.3658, 100.3535



30.9912, 32.9128, 99.3271



22.1541, 13.4014, 96.0262



17.9373, 19.2462, 23.0194



15.9240, 16.7575, 51.8298



1.6561, 1.8430, 5.0817

Previews

White Background



This preview shows how the XYZ color 49.6878, 37.1995, 7.6934 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 49.6878, 37.1995, 7.6934 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 49.6878, 37.1995, 7.6934

Background



This preview shows how black text looks on a background with the XYZ color 49.6878, 37.1995, 7.6934.



This preview shows how white text looks on a background with the XYZ color 49.6878, 37.1995,

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

49.6878, 37.1995, 7.6934

Protanopia

34.0646, 37.4375, 9.8456

Deuteranopia

38.0208, 37.2024, 7.2747



Tritanopia

52.4197, 37.0646, 25.8641

Trichromacy



Original Color

49.6878, 37.1995, 7.6934

Protanomaly

38.5451, 36.4535, 8.8756

Deuteranomaly

41.4930, 36.5945, 7.3592

Tritanomaly

50.9719, 36.8865, 17.0037

Monochromacy



Original Color

49.6878, 37.1995, 7.6934

Achromatopsia

32.4990, 34.1914, 37.2345

Achromatomaly

35.7558, 33.5368, 22.0415

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.6878, 37.1995, 7.6934 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, 129, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 129, 51)  
}
```

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, 129, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 129, 51) }
```

Border

The CSS property to change the border of an element to XYZ 49.6878, 37.1995, 7.6934 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, 129, 51) }
```


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

```
.border{ border-color:rgb(255, 129, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 129, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 129, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 129, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 129,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 49.6878, 37.1995, 7.6934 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 129, 51) }
```

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

```
.background{ background-color: rgb(255,  
129, 51) }
```

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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