

# Converting Colors

XYZ(47.7444, 39.5091, 7.4236)

Have a look what the booklet for  
XYZ(47.7444, 39.5091, 7.4236)  
contains.

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# Color

**XYZ(47.8697, 39.6583,  
7.4173)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F4912B
RGB	244, 145, 43
RGB Percent	96%, 57%, 17%
CMY	0.0431, 0.4313, 0.8314
CMYK	0.00, 0.41, 0.82, 0.04
HSL	30°, 90%, 56%
HSV	30°, 82%, 96%
XYZ	47.8697, 39.6583, 7.4173
YIQ	162.9730, 91.7460, -10.7340

# Conversions

## Conversions Part 2

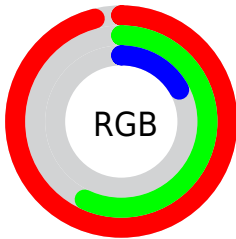
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	238, 244, 43
Decimal	16027947
CIE Lab	69.23, 30.46, 65.26
CIE LCh	69, 72.018, 64.978
Yxy	39.6583, 0.5042, 0.4177
Android (android.graphics.Color)	4294218027 (0xFFFF4912B)
YUV	162.9730, -59.1467, 71.0607
Hunter-Lab	62.9748, 25.4790, 37.0991

# Details

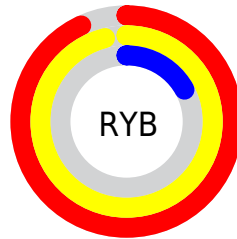
The XYZ color **47.8697, 39.6583, 7.4173** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **26.9978, 26.3901, 89.2583**, and the grayscale version is **35.0414, 36.8662, 40.1473**.

A 20% lighter version of the original color is **63.8680, 62.9887, 20.3471**, and **23.2941, 17.9505, 2.2371** is the 20% darker color. If you saturate the color by 10%, you get **45.8083, 36.0509, 5.1427**, and if you desaturate by 10%, it is **50.3943, 43.7652, 11.1654**.

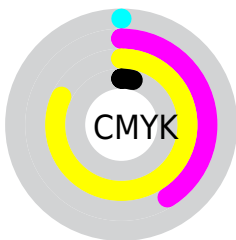
# Distribution



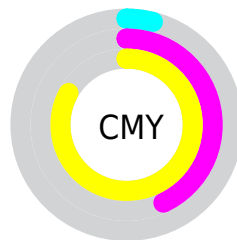
- Red (96%)
- Green (57%)
- Blue (17%)



- Red (93%)
- Yellow (96%)
- Blue (17%)



- Cyan (0%)
- Magenta (41%)
- Yellow (82%)
- Black (4%)




- Cyan (4%)
- Magenta (43%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.8697, 39.6583, 7.4173 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 47.8697, 39.6583, 7.4173 by changing the saturation by 10% instead.




 47.8697, 39.6583,  
7.4173


 47.8697, 39.6583,  
7.4173


368.8666,  
344.6812, 180.8479

 33.9345, 27.2722,  
3.6420


 86.2212, 74.6429,  
21.3349


 23.0060, 17.7778,  
1.4311


 111.3683, 98.0102,  
32.3144

 14.7186, 10.7906,  
0.1658


 140.9834,  
125.8067, 46.5323

 8.7072, 5.9262,  
0.0000

 175.4319,  
158.4169, 64.4072

 4.6063, 2.8002,  
0.0000

 215.0791,  
196.2250, 86.3577

 2.0505, 1.0284,  
0.0000

 260.2904,

 0.6621, 0.0000,

239.6155, 112.8023

0.0000

311.4311,  
288.9728, 144.1595

■ 0.0000, 0.0000,  
0.0000

■ 47.8697, 39.6583,  
7.4173

■ 47.8697, 39.6583,  
7.4173

■ 45.8083, 36.0509,  
5.1427

■ 50.3943, 43.7652,  
11.1654


■ 44.4940, 33.6051,  
4.1413


■ 53.4269, 48.3936,  
16.6052


■ 57.0080, 53.5703,  
23.9206


■ 61.1730, 59.3178,  
33.2702

■ 65.9534, 65.6569,  
44.7958

 71.3784, 72.6072,  
58.6265

 77.4750, 80.1871,  
74.8809

 84.2686, 88.4142,  
93.6697

 90.5344, 96.8058,  
108.5214

# Harmonies

## Analogous

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



58.9329, 39.6583, 16.0524



47.8697, 39.6583, 7.4173



35.8027, 39.6583, 5.7867

# Triad

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



47.8697, 39.6583, 7.4173



19.6411, 39.6583, 48.9287



51.8848, 39.6583, 118.8916

# Complementary

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



47.8697, 39.6583, 7.4173



26.9978, 26.3901, 89.2583

# 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.



39.6508, 39.6583, 142.3427



47.8697, 39.6583, 7.4173



22.2909, 39.6583, 90.7628

# Square

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



47.8697, 39.6583, 7.4173



20.9627, 39.6583, 21.5092



29.0734, 39.6583, 130.0471



61.5627, 39.6583, 75.9867



# Rectangle

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



47.8697, 39.6583, 7.4173



29.0861, 39.6583, 7.4111



29.0734, 39.6583, 130.0471



47.8520, 39.6583, 130.0892

# Sweetspot

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



47.8706, 39.6604, 7.4180



77.2205, 78.1305, 60.4453



43.1680, 22.9594, 28.3426



16.0733, 16.1412, 11.7747



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.



47.8706, 39.6604, 7.4180



49.3255, 37.4086, 4.6941



70.0946, 84.1084, 14.8260



17.1943, 17.8728, 17.3411



24.3307, 18.5470, 2.2976



2.2413, 1.8358, 0.2362



# Inverse Universe

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



26.9978, 26.3901, 89.2583



25.6563, 22.3852, 97.5763



18.1895, 8.7733, 86.3221



16.2552, 17.2746, 21.0202



12.6784, 11.1506, 48.0221



1.2169, 1.1853, 4.2549



# Previews

## White Background



This preview shows how the XYZ color 47.8697, 39.6583, 7.4173 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 47.8697, 39.6583, 7.4173 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 47.8697, 39.6583, 7.4173**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.8697, 39.6583, 7.4173.



This preview shows how white text looks on a background with the XYZ color 47.8697, 39.6583,



# 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

47.8697, 39.6583, 7.4173

### Protanopia

36.1643, 39.9184, 8.7047

### Deuteranopia

40.5039, 39.7632, 7.2094



## Tritanopia

52.8417, 39.5120, 31.6296

# Trichromacy



## Original Color

47.8697, 39.6583, 7.4173

## Protanomaly

39.8363, 39.3966, 8.1940

## Deuteranomaly

42.8280, 39.4365, 7.2742

## Tritanomaly

50.2972, 39.3221, 19.1263

# Monochromacy



## Original Color

47.8697, 39.6583, 7.4173

## Achromatopsia

34.8123, 36.6253, 39.8849

## Achromatomaly

36.9565, 36.3153, 22.5145

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.8697, 39.6583, 7.4173 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(244, 145, 43)` looks like.

```
.text, #text, p{  
    color:rgb(244, 145, 43)  
}
```

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(244, 145, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 145, 43) }
```

## Border

The CSS property to change the border of an element to XYZ 47.8697, 39.6583, 7.4173 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(244, 145, 43) }
```



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

```
.border{ border-color:rgb(244, 145, 43) }
```

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

Here you see how a box with a 4 pixel `rgb(244, 145, 43)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 145, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 145, 43);  
box-shadow:4px 4px 4px 4px rgb(244, 145,  
43) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.8697, 39.6583, 7.4173 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 145, 43) }
```

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

```
.background{ background-color: rgb(244,  
145, 43) }
```

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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