

# Converting Colors

XYZ(51.9181, 47.2526, 15.3383)

Have a look what the booklet for  
XYZ(51.9181, 47.2526, 15.3383)  
contains.

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# Color

**XYZ(51.9986, 47.3942,  
15.4242)**

# Conversions

## Conversions Part 1

| Format      | Color                      |
|-------------|----------------------------|
| Hex         | F1A857                     |
| RGB         | 241, 168, 87               |
| RGB Percent | 95%, 66%, 34%              |
| CMY         | 0.0549, 0.3412, 0.6588     |
| CMYK        | 0.00, 0.30, 0.64, 0.05     |
| HSL         | 32°, 85%, 64%              |
| HSV         | 32°, 64%, 95%              |
| XYZ         | 51.9986, 47.3942, 15.4242  |
| YIQ         | 180.5930, 69.5090, -9.7150 |

# Conversions

## Conversions Part 2

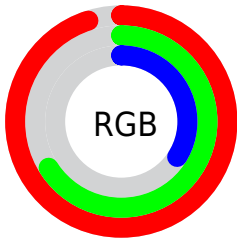
| Format                              | Color                          |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 226, 241, 87                   |
| Decimal                             | 15837271                       |
| CIE Lab                             | 74.44, 19.10, 51.67            |
| CIE LCh                             | 74, 55.092, 69.712             |
| Yxy                                 | 47.3942, 0.4529,<br>0.4128     |
| Android<br>(android.graphics.Color) | 4294027351<br>(0xFFFF1A857)    |
| YUV                                 | 180.5930, -46.1413,<br>52.9769 |
| Hunter-Lab                          | 68.8434, 14.3480,<br>34.9066   |

# Details

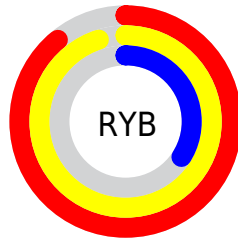
The XYZ color **51.9986, 47.3942, 15.4242** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **32.3778, 33.5171, 87.9816**, and the grayscale version is **43.9172, 46.2043, 50.3165**.

A 20% lighter version of the original color is **72.2879, 75.8994, 35.2662**, and **25.6199, 22.4419, 4.6505** is the 20% darker color. If you saturate the color by 10%, you get **49.1566, 43.0317, 10.4035**, and if you desaturate by 10%, it is **55.3567, 52.2634, 22.2387**.

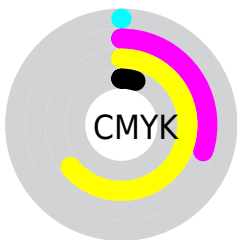
# Distribution



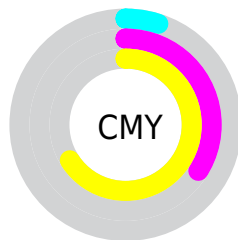
- Red (95%)
- Green (66%)
- Blue (34%)



- Red (89%)
- Yellow (95%)
- Blue (34%)



- Cyan (0%)
- Magenta (30%)
- Yellow (64%)
- Black (5%)




- Cyan (5%)
- Magenta (34%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.9986, 47.3942, 15.4242 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 51.9986, 47.3942, 15.4242 by changing the saturation by 10% instead.





 51.9986, 47.3942,  
15.4242


 51.9986, 47.3942,  
15.4242


384.7553,  
376.3858, 237.6482

 37.2282, 33.3474,  
8.9677


 92.3034, 86.3017,  
36.3484


 25.5587, 22.3927,  
4.6236


 118.5686,  
111.9313, 51.6532

 16.6248, 14.1457,  
1.9733


 149.3960,  
142.1905, 70.7446

 10.0610, 8.2221,  
0.5388

 185.1511,  
177.4638, 94.0410

 5.5020, 4.2374,  
0.0000

226.1992,  
218.1356, 121.9610

 2.5824, 1.8072,  
0.0000

272.9057,

 0.9370, 0.4917,

264.5903, 154.9232

0.0000

325.6360,  
317.2122, 193.3461

■ 0.0000, 0.0000,  
0.0000

■ 51.9986, 47.3942,  
15.4242

■ 51.9986, 47.3942,  
15.4242

■ 49.1566, 43.0317,  
10.4035

■ 55.3567, 52.2634,  
22.2387

■ 46.7883, 39.1457,  
6.9922

■ 59.2616, 57.6531,  
31.0011


■ 44.8484, 35.7120,  
4.9702


■ 63.7451, 63.5851,  
41.8520


■ 43.8350, 33.8197,  
4.2175

■ 68.8351, 70.0773,  
54.9178

■ 74.5577, 77.1468,  
70.3150

 80.9371, 84.8096,  
88.1519

 87.8831, 93.0360,  
107.9335

 90.0854, 97.4407,  
108.6677

# Harmonies

## Analogous

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



61.3936, 47.3942, 23.9521



51.9986, 47.3942, 15.4242



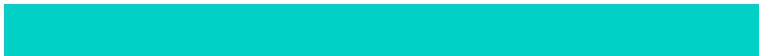
41.9010, 47.3942, 14.2870

# Triad

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



51.9986, 47.3942, 15.4242



28.7225, 47.3942, 61.3927



58.3845, 47.3942, 106.1519

# Complementary

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



51.9986, 47.3942, 15.4242



32.3778, 33.5171, 87.9816

# 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.



48.3462, 47.3942, 126.4710



51.9986, 47.3942, 15.4242



31.8944, 47.3942, 95.0346

# Square

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



51.9986, 47.3942, 15.4242



29.4027, 47.3942, 34.8676



38.7439, 47.3942, 121.7872



65.4399, 47.3942, 72.9874



# Rectangle

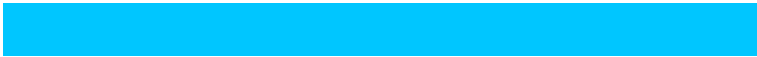
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



51.9986, 47.3942, 15.4242



36.2282, 47.3942, 17.1852



38.7439, 47.3942, 121.7872



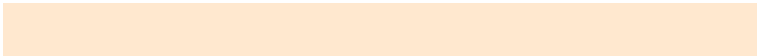
55.1914, 47.3942, 115.1779

# Sweetspot

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



51.9997, 47.3966, 15.4251



81.3141, 83.4761, 70.5702



46.1552, 28.1060, 36.9117



17.0123, 17.3803, 14.0567



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.



51.9997, 47.3966, 15.4251



54.9288, 47.3890, 10.3422



68.5809, 81.8506, 21.2015



16.4610, 17.1350, 16.5895



23.9071, 18.6122, 2.3325



2.0884, 1.7475, 0.2272



# Inverse Universe

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



32.3778, 33.5171, 87.9816



31.0154, 30.5040, 98.8609



23.4601, 15.3197, 84.9392



15.5152, 16.4645, 20.0818



12.0200, 10.2642, 46.4755



1.0989, 1.0517, 3.8993



# Previews

## White Background



This preview shows how the XYZ color 51.9986, 47.3942, 15.4242 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 51.9986, 47.3942, 15.4242 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

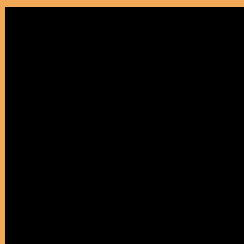
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 51.9986, 47.3942, 15.4242**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.9986, 47.3942, 15.4242.



This preview shows how white text looks on a background with the XYZ color 51.9986, 47.3942,



# 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

51.9986, 47.3942, 15.4242

### Protanopia

43.7009, 47.7502, 17.0386

### Deuteranopia

48.6482, 47.6467, 15.2270



## Tritanopia

58.1066, 47.5107, 44.6360

# Trichromacy



## Original Color

51.9986, 47.3942, 15.4242

## Protanomaly

46.3811, 47.3307, 16.3640

## Deuteranomaly

49.7109, 47.3327, 15.3202

## Tritanomaly

55.3101, 47.1466, 30.9960

# Monochromacy



## Original Color

51.9986, 47.3942, 15.4242

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

45.4204, 45.8538, 34.0605

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.9986, 47.3942, 15.4242 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(241, 168, 87)` looks like.

```
.text, #text, p{  
    color:rgb(241, 168, 87)  
}
```

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(241, 168, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 168, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 51.9986, 47.3942, 15.4242 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(241, 168, 87) }
```



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

```
.border{ border-color:rgb(241, 168, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(241, 168, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 168, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 168, 87);  
box-shadow:4px 4px 4px 4px rgb(241, 168,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.9986, 47.3942, 15.4242 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 168, 87) }
```

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

```
.background{ background-color: rgb(241,  
168, 87) }
```

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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