

# Converting Colors

XYZ(51.7222, 47.1685, 18.7770)

Have a look what the booklet for  
XYZ(51.7222, 47.1685, 18.7770)  
contains.

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# Color

**XYZ(51.6115, 47.1220,  
18.6872)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEA865
RGB	238, 168, 101
RGB Percent	93%, 66%, 40%
CMY	0.0667, 0.3412, 0.6039
CMYK	0.00, 0.29, 0.58, 0.07
HSL	29°, 80%, 66%
HSV	29°, 58%, 93%
XYZ	51.6115, 47.1220, 18.6872
YIQ	181.2920, 63.2270, -5.9970

# Conversions

## Conversions Part 2

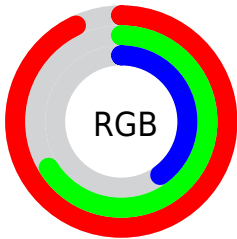
Format	Color
R <sub>Y</sub> B	238, 232, 101
Decimal	15640677
CIE Lab	74.27, 18.83, 44.49
CIE LCh	74, 48.311, 67.056
Yxy	47.1220, 0.4395, 0.4013
Android (android.graphics.Color)	4293830757 (0xFFEEA865)
YUV	181.2920, -39.5840, 49.7329
Hunter-Lab	68.6455, 14.0767, 31.9114

# Details

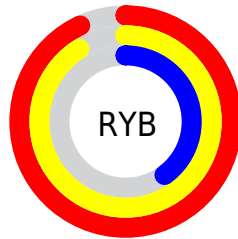
The XYZ color **51.6115, 47.1220, 18.6872** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **35.3616, 38.0639, 86.3718**, and the grayscale version is **44.2638, 46.5690, 50.7136**.

A 20% lighter version of the original color is **73.3774, 76.3353, 41.0038**, and **25.4333, 22.3135, 6.0984** is the 20% darker color. If you saturate the color by 10%, you get **48.4692, 42.4413, 12.6961**, and if you desaturate by 10%, it is **55.3036, 52.3623, 26.5279**.

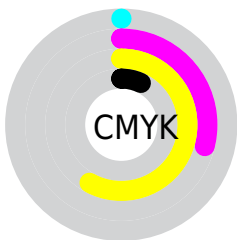
# Distribution



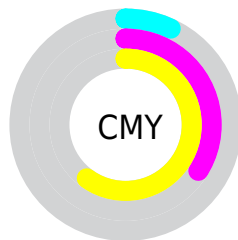
- Red (93%)
- Green (66%)
- Blue (40%)



- Red (93%)
- Yellow (91%)
- Blue (40%)



- Cyan (0%)
- Magenta (29%)
- Yellow (58%)
- Black (7%)



- Cyan (7%)
- Magenta (34%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.6115, 47.1220, 18.6872 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 51.6115, 47.1220, 18.6872 by changing the saturation by 10% instead.



51.6115, 47.1220,  
18.6872

51.6115, 47.1220,  
18.6872

383.2836,  
375.3013, 257.0814

36.9185, 33.1321,  
11.2700

91.7357, 85.8957,  
42.0345

25.3178, 22.2277,  
6.1323

117.8975,  
111.4483, 58.8016

16.4440, 14.0243,  
2.8556

148.6131,  
141.6239, 79.5225

9.9317, 8.1376,  
1.0214

184.2477,  
176.8070, 104.6156

5.4156, 4.1831,  
0.0000

225.1667,  
217.3819, 134.4995

2.5304, 1.7765,  
0.0000

271.7354,

0.9106, 0.4725,

263.7329, 169.5927

0.0000

324.3193,  
316.2446, 210.3138

■ 0.0000, 0.0000,  
0.0000

■ 51.6115, 47.1220,  
18.6872

■ 51.6115, 47.1220,  
18.6872

■ 48.4692, 42.4413,  
12.6961

■ 55.3036, 52.3623,  
26.5279

■ 45.8376, 38.2897,  
8.3916

■ 59.5740, 58.1767,  
36.3568

■ 43.6764, 34.6435,  
5.5867

■ 64.4532, 64.5878,  
48.3021

■ 41.9322, 31.4712,  
4.0311

■ 69.9679, 71.6146,  
62.4805

■ 41.5517, 30.7611,  
3.7475

■ 76.1435, 79.2749,  
78.9999

■ 83.0034, 87.5860,  
97.9614

■ 88.4740, 95.7257,  
108.4216

■ 89.0697, 96.9171,  
108.6201

# Harmonies

## Analogous

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



59.4649, 47.1220, 27.5657



51.6115, 47.1220, 18.6872



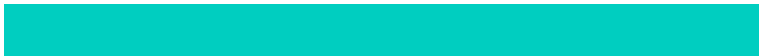
42.7697, 47.1220, 16.9976

# Triad

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



51.6115, 47.1220, 18.6872



30.1875, 47.1220, 57.4040



55.6123, 47.1220, 99.6638

# Complementary

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



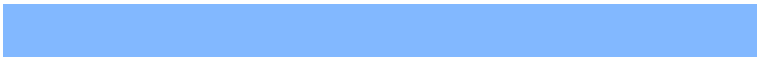
51.6115, 47.1220, 18.6872



35.3616, 38.0639, 86.3718

# 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.



46.8689, 47.1220, 114.8331



51.6115, 47.1220, 18.6872



32.7498, 47.1220, 85.8213

# Square

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



51.6115, 47.1220, 18.6872



31.1143, 47.1220, 34.8450



38.5942, 47.1220, 109.0835



61.9751, 47.1220, 72.2784



# Rectangle

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



51.6115, 47.1220, 18.6872



37.6199, 47.1220, 19.4360



38.5942, 47.1220, 109.0835



52.8134, 47.1220, 106.7051

# Sweetspot

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



51.6126, 47.1243, 18.6881



82.1766, 84.1900, 73.9752



47.3393, 30.4551, 42.3045



17.2960, 17.6512, 15.0658



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.



51.6126, 47.1243, 18.6881



56.1273, 48.7737, 13.8627



67.5226, 78.9443, 23.9914



16.4111, 17.0353, 16.5729



23.3106, 17.4192, 2.1336



2.0385, 1.6477, 0.2106



# Inverse Universe

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



35.3616, 38.0639, 86.3718



35.4562, 37.2396, 99.9270



25.6783, 18.6972, 83.1441



15.5650, 16.5641, 20.0984



12.5950, 11.4143, 46.6672



1.1474, 1.1488, 3.9155



# Previews

## White Background



This preview shows how the XYZ color 51.6115, 47.1220, 18.6872 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

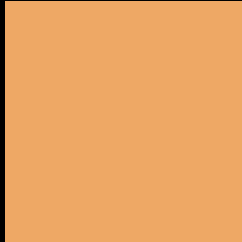
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.6115, 47.1220, 18.6872 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

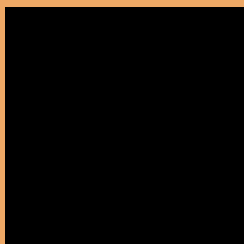
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 51.6115, 47.1220, 18.6872**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.6115, 47.1220, 18.6872.



This preview shows how white text looks on a background with the XYZ color 51.6115, 47.1220,



# 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

51.6115, 47.1220, 18.6872

### Protanopia

43.6224, 47.3251, 20.4712

### Deuteranopia

48.1768, 47.0395, 18.5969



## Tritanopia

56.9793, 47.1749, 45.1322

# Trichromacy



## Original Color

51.6115, 47.1220, 18.6872

## Protanomaly

46.1506, 47.1364, 19.7625

## Deuteranomaly

49.3659, 47.0832, 18.5427

## Tritanomaly

54.5611, 46.9705, 33.3847

# Monochromacy



## Original Color

51.6115, 47.1220, 18.6872

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

45.5500, 45.8742, 36.1596

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.6115, 47.1220, 18.6872 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(238, 168, 101)` looks like.

```
.text, #text, p{  
    color:rgb(238, 168, 101)  
}
```

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(238, 168, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 168, 101) }
```

## Border

The CSS property to change the border of an element to XYZ 51.6115, 47.1220, 18.6872 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(238, 168, 101) }
```



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

```
.border{ border-color:rgb(238, 168, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 168, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 168, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 168, 101);  
box-shadow:4px 4px 4px 4px rgb(238, 168,  
101) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.6115, 47.1220, 18.6872 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 168, 101) }
```

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

```
.background{ background-color: rgb(238,  
168, 101) }
```

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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