

# Converting Colors

XYZ(51.2217, 50.1349, 16.0739)

Have a look what the booklet for  
XYZ(51.2217, 50.1349, 16.0739)  
contains.

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# Color

**XYZ(51.1191, 50.0841,  
15.9898)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8B357
RGB	232, 179, 87
RGB Percent	91%, 70%, 34%
CMY	0.0902, 0.2980, 0.6588
CMYK	0.00, 0.23, 0.62, 0.09
HSL	38°, 76%, 63%
HSV	38°, 62%, 91%
XYZ	51.1191, 50.0841, 15.9898
YIQ	184.3590, 61.1200, -17.3760

# Conversions

## Conversions Part 2

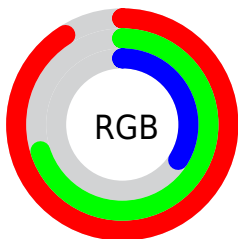
Format	Color
<a href="#">RYB</a>	<a href="#">171, 232, 87</a>
Decimal	<a href="#">15250263</a>
CIELab	<a href="#">76.12, 9.54, 53.31</a>
CIELCh	<a href="#">76, 54.159, 79.850</a>
Yxy	<a href="#">50.0841, 0.4362, 0.4274</a>
Android (android.graphics.Color)	<a href="#">4293440343</a> ( <a href="#">0xFFE8B357</a> )
YUV	<a href="#">184.3590, -47.9980, 41.7812</a>
Hunter-Lab	<a href="#">70.7701, 5.0875, 36.1431</a>

# Details

The XYZ color **51.1191, 50.0841, 15.9898** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **27.8737, 26.6076, 80.0102**, and the grayscale version is **45.9934, 48.3886, 52.6952**.

A 20% lighter version of the original color is **75.6820, 82.5701, 36.7597**, and **25.1263, 24.1843, 4.9338** is the 20% darker color. If you saturate the color by 10%, you get **48.6721, 46.4711, 11.2257**, and if you desaturate by 10%, it is **53.9775, 54.0328, 22.3943**.

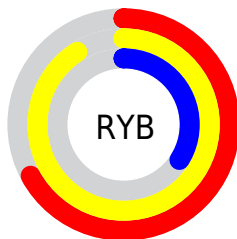
# Distribution



Red (91%)

Green (70%)

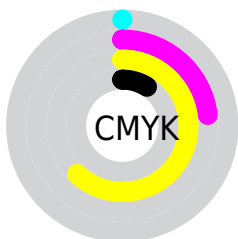
Blue (34%)



Red (67%)

Yellow (91%)

Blue (34%)

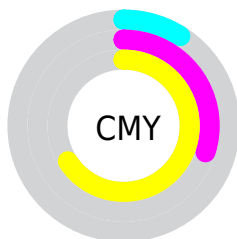


Cyan (0%)

Magenta (23%)

Yellow (62%)

Black (9%)



Cyan (9%)

Magenta (30%)

Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.1191, 50.0841, 15.9898 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 51.1191, 50.0841, 15.9898 by changing the saturation by 10% instead.



51.1191, 50.0841,  
15.9898

51.1191, 50.0841,  
15.9898

381.4064,  
386.9947, 241.1252

36.5248, 35.4802,  
9.3627

91.0127, 90.2995,  
37.3470

25.0118, 24.0330,  
4.8784

117.0428,  
116.6798, 52.9142

16.2146, 15.3581,  
2.1186

147.6156,  
147.7543, 72.2985

9.7680, 9.0711,  
0.6268

183.0963,  
183.9075, 95.9184

5.3065, 4.7876,  
0.0000

223.8504,  
225.5237, 124.1925

2.4648, 2.1232,  
0.0000

270.2432,

0.8775, 0.6776,

272.9874, 157.5393

0.0000

322.6401,  
326.6830, 196.3773

■ 0.0000, 0.0000,  
0.0000

■ 51.1191, 50.0841,  
15.9898

■ 51.1191, 50.0841,  
15.9898

■ 48.6721, 46.4711,  
11.2257

■ 53.9775, 54.0328,  
22.3943

■ 46.6006, 43.1706,  
7.9383

■ 57.2719, 58.3241,  
30.5756

■ 44.8674, 40.1666,  
5.9352

■ 61.0289, 62.9733,  
40.6592

■ 43.7447, 38.0880,  
5.0461

■ 65.2714, 67.9925,  
52.7584

■ 70.0210, 73.3929,  
66.9773

■ 75.2974, 79.1851,  
83.4129

■ 81.1197, 85.3792,  
102.1564

■ 84.5401, 90.7988,  
107.6779

■ 87.0885, 95.8957,  
108.5274

# Harmonies

## Analogous

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



61.3000, 50.0841, 22.0408



51.1191, 50.0841, 15.9898



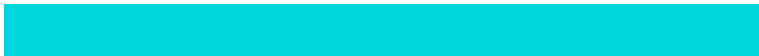
41.2907, 50.0841, 17.0918

# Triad

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



51.1191, 50.0841, 15.9898



31.5320, 50.0841, 75.7541



64.0985, 50.0841, 98.9909

# Complementary

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



51.1191, 50.0841, 15.9898



27.8737, 26.6076, 80.0102

# 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.



54.5288, 50.0841, 125.6323



51.1191, 50.0841, 15.9898



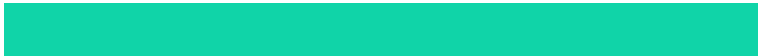
36.1160, 50.0841, 109.2531

# Square

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



51.1191, 50.0841, 15.9898



30.8886, 50.0841, 45.2815



44.2528, 50.0841, 129.9397



69.4669, 50.0841, 64.9660



# Rectangle

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



51.1191, 50.0841, 15.9898



36.1808, 50.0841, 21.9386



44.2528, 50.0841, 129.9397



61.2078, 50.0841, 109.5508

# Sweetspot

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



51.1203, 50.0865, 15.9908



82.8165, 86.4809, 71.0710



41.4330, 25.8710, 27.6859



17.3759, 18.1076, 14.1779



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.



51.1203, 50.0865, 15.9908



59.5286, 56.3680, 12.5559



57.9208, 72.4974, 19.9581



15.1355, 15.8850, 15.1728



24.4094, 21.3930, 2.8427



1.8915, 1.7564, 0.2393



# Inverse Universe

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



27.8737, 26.6076, 80.0102



28.6246, 25.2547, 97.9737



23.9577, 15.7278, 78.1166



14.0120, 14.7453, 18.2520



9.9902, 7.0425, 43.2160



0.8244, 0.6927, 3.2222



# Previews

## White Background



This preview shows how the XYZ color 51.1191, 50.0841, 15.9898 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 51.1191, 50.0841, 15.9898 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 51.1191, 50.0841, 15.9898

## Background



This preview shows how black text looks on a background with the XYZ color 51.1191, 50.0841, 15.9898.



This preview shows how white text looks on a background with the XYZ color 51.1191, 50.0841,



# 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

51.1191, 50.0841, 15.9898

### Protanopia

45.8411, 50.1145, 16.9298

### Deuteranopia

51.1191, 50.0841, 15.9898



## Tritanopia

58.2281, 50.1041, 50.8581

# Trichromacy



## Original Color

51.1191, 50.0841, 15.9898

## Protanomaly

47.7674, 50.1709, 16.6175

## Deuteranomaly

51.1191, 50.0841, 15.9898

## Tritanomaly

54.8021, 49.8266, 34.3329

# Monochromacy



## Original Color

51.1191, 50.0841, 15.9898

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

46.2402, 48.0433, 35.2699

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.1191, 50.0841, 15.9898 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(232, 179, 87)` looks like.

```
.text, #text, p{  
    color:rgb(232, 179, 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(232, 179, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 179, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 51.1191, 50.0841, 15.9898 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(232, 179, 87) }
```



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

```
.border{ border-color:rgb(232, 179, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 179, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 179, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 179, 87);  
box-shadow:4px 4px 4px 4px rgb(232, 179,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.1191, 50.0841, 15.9898 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 179, 87) }
```

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

```
.background{ background-color: rgb(232,  
179, 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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