

# Converting Colors

XYZ(52.0622, 50.3378, 16.0475)

Have a look what the booklet for  
XYZ(52.0622, 50.3378, 16.0475)  
contains.

<b>XYZ(51.9016, 50.1911, 15.9692)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(51.9016, 50.1911,  
15.9692)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EBB257
RGB	235, 178, 87
RGB Percent	92%, 70%, 34%
CMY	0.0784, 0.3019, 0.6588
CMYK	0.00, 0.24, 0.63, 0.08
HSL	37°, 79%, 63%
HSV	37°, 63%, 92%
XYZ	51.9016, 50.1911, 15.9692
YIQ	184.6690, 63.1830, -16.2170

# Conversions

## Conversions Part 2

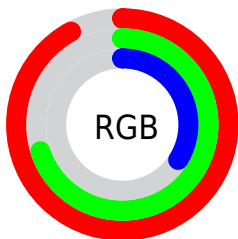
Format	Color
<a href="#">RYB</a>	<a href="#">180, 235, 87</a>
Decimal	<a href="#">15446615</a>
CIELab	<a href="#">76.19, 11.33, 53.47</a>
CIElCh	<a href="#">76, 54.656, 78.041</a>
Yxy	<a href="#">50.1911, 0.4396, 0.4251</a>
Android (android.graphics.Color)	<a href="#">4293636695 (0xFFEBB257)</a>
YUV	<a href="#">184.6690, -48.1508, 44.1403</a>
Hunter-Lab	<a href="#">70.8457, 6.7893, 36.2275</a>

# Details

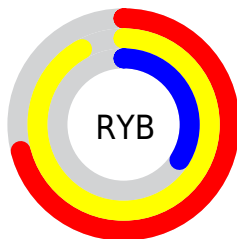
The XYZ color **51.9016, 50.1911, 15.9692** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **28.8986, 27.9696, 82.4722**, and the grayscale version is **46.1657, 48.5699, 52.8927**.

A 20% lighter version of the original color is **75.3964, 81.9991, 36.6645**, and **25.6687, 24.2732, 4.9224** is the 20% darker color. If you saturate the color by 10%, you get **49.3519, 46.3864, 11.1290**, and if you desaturate by 10%, it is **54.8849, 54.3633, 22.4962**.

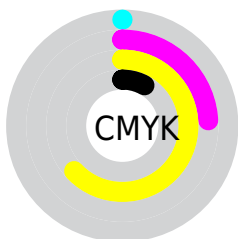
# Distribution



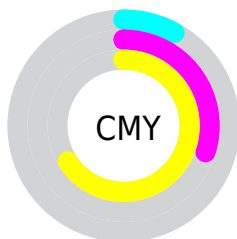
- Red (92%)
- Green (70%)
- Blue (34%)



- Red (71%)
- Yellow (92%)
- Blue (34%)



- Cyan (0%)
- Magenta (24%)
- Yellow (63%)
- Black (8%)




- Cyan (8%)
- Magenta (30%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.9016, 50.1911, 15.9692 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 51.9016, 50.1911, 15.9692 by changing the saturation by 10% instead.





 51.9016, 50.1911,  
15.9692


 51.9016, 50.1911,  
15.9692


384.3868,  
387.4128, 240.9994

 37.1506, 35.5653,  
9.3482


 92.1612, 90.4580,  
37.3108

 25.4983, 24.0986,  
4.8691


 118.4005,  
116.8678, 52.8685

 16.5794, 15.4068,  
2.1133

 149.1999,  
147.9743, 72.2422

 10.0285, 9.1054,  
0.6237

 184.9249,  
184.1621, 95.8504

 5.4803, 4.8100,  
0.0000

225.9407,  
225.8154, 124.1117

 2.5693, 2.1362,  
0.0000

272.6127,

 0.9304, 0.6849,

273.3187, 157.4446

0.0000

325.3063,  
327.0564, 196.2676

■ 0.0000, 0.0000,  
0.0000

■ 51.9016, 50.1911,  
15.9692

■ 51.9016, 50.1911,  
15.9692

■ 49.3519, 46.3864,  
11.1290

■ 54.8849, 54.3633,  
22.4962

■ 47.1984, 42.9247,  
7.8054

■ 58.3278, 58.9110,  
30.8520

■ 45.4017, 39.7883,  
5.7971

■ 62.2580, 63.8507,  
41.1668

■ 44.3102, 37.7610,  
4.9532

■ 66.7000, 69.1954,  
53.5580

■ 71.6760, 74.9575,  
68.1337

■ 77.2070, 81.1485,  
84.9944

■ 83.3129, 87.7794,  
104.2345

■ 86.6220, 93.5047,  
108.0905

■ 88.0707, 96.4020,  
108.5734

# Harmonies

## Analogous

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



62.1144, 50.1911, 22.5324



51.9016, 50.1911, 15.9692



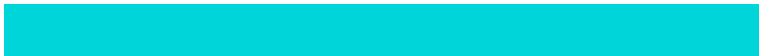
41.8646, 50.1911, 16.6607

# Triad

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



51.9016, 50.1911, 15.9692



31.3287, 50.1911, 74.0350



63.8921, 50.1911, 101.6745

# Complementary

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



51.9016, 50.1911, 15.9692



28.8986, 27.9696, 82.4722

# 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.



54.0651, 50.1911, 127.6935



51.9016, 50.1911, 15.9692



35.7167, 50.1911, 108.2077

# Square

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



51.9016, 50.1911, 15.9692



30.9221, 50.1911, 43.7800



43.7412, 50.1911, 130.4390



69.6711, 50.1911, 67.1840



# Rectangle

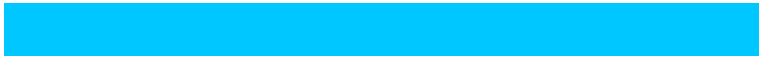
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



51.9016, 50.1911, 15.9692



36.5736, 50.1911, 21.1875



43.7412, 50.1911, 130.4390



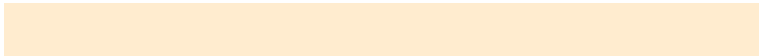
60.8931, 50.1911, 112.1618

# Sweetspot

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



51.9028, 50.1936, 15.9702



82.5416, 85.9311, 70.9794



42.8731, 26.5605, 30.1433



17.3092, 17.9742, 14.1557



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.



51.9028, 50.1936, 15.9702



58.4835, 54.3906, 11.8592



61.0041, 75.3511, 20.3464



15.8366, 16.5963, 15.8874



24.7881, 21.2705, 2.7991



2.0391, 1.8556, 0.2507



# Inverse Universe

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



28.8986, 27.9696, 82.4722



28.7672, 25.7793, 98.0675



23.8608, 15.6282, 80.3556



14.7068, 15.5000, 19.1389



10.5184, 7.6838, 44.6717



0.9166, 0.7847, 3.5380



# Previews

## White Background



This preview shows how the XYZ color 51.9016, 50.1911, 15.9692 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

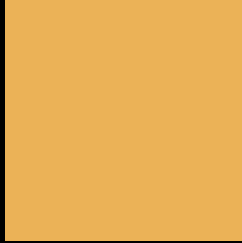
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.9016, 50.1911, 15.9692 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

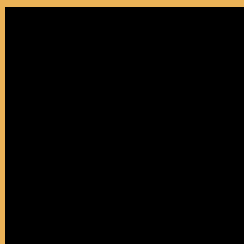
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 51.9016, 50.1911, 15.9692

## Background



This preview shows how black text looks on a background with the XYZ color 51.9016, 50.1911, 15.9692.



This preview shows how white text looks on a background with the XYZ color 51.9016, 50.1911,



# 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

51.9016, 50.1911, 15.9692

### Protanopia

45.8411, 50.1145, 16.9298

### Deuteranopia

51.4447, 50.2520, 16.0050



## Tritanopia

58.9611, 50.2187, 50.3017

# Trichromacy



## Original Color

51.9016, 50.1911, 15.9692

## Protanomaly

47.8571, 49.9077, 16.5620

## Deuteranomaly

51.7721, 50.4207, 16.0203

## Tritanomaly

55.6156, 49.9624, 34.3162

# Monochromacy



## Original Color

51.9016, 50.1911, 15.9692

## Achromatopsia

46.1135, 48.5150, 52.8328

## Achromatomaly

46.7814, 48.3223, 35.2953

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.9016, 50.1911, 15.9692 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(235, 178, 87)` looks like.

```
.text, #text, p{  
    color:rgb(235, 178, 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(235, 178, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 178, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 51.9016, 50.1911, 15.9692 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(235, 178, 87) }
```



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

```
.border{ border-color:rgb(235, 178, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 178, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 178, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 178, 87);  
box-shadow:4px 4px 4px 4px rgb(235, 178,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.9016, 50.1911, 15.9692 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 178, 87) }
```

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

```
.background{ background-color: rgb(235,  
178, 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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