

# Converting Colors

XYZ(15.7792, 15.4596, 11.9445)

Have a look what the booklet for  
XYZ(15.7792, 15.4596, 11.9445)  
contains.

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# Color

**XYZ(15.8420, 15.4477,  
12.0443)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	80695B
RGB	128, 105, 91
RGB Percent	50%, 41%, 36%
CMY	0.4980, 0.5882, 0.6431
CMYK	0.00, 0.18, 0.29, 0.50
HSL	23°, 17%, 43%
HSV	23°, 29%, 50%
XYZ	15.8420, 15.4477, 12.0443
YIQ	110.2810, 18.2020, 0.5220

# Conversions

## Conversions Part 2

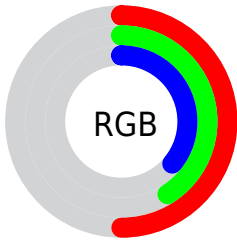
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 114, 91
Decimal	8415579
CIE Lab	46.24, 6.88, 11.31
CIE LCh	46, 13.236, 58.664
Yxy	15.4477, 0.3656, 0.3565
Android (android.graphics.Color)	4286605659 (0xFF80695B)
YUV	110.2810, -9.5055, 15.5396
Hunter-Lab	39.3036, 3.1664, 9.3435

# Details

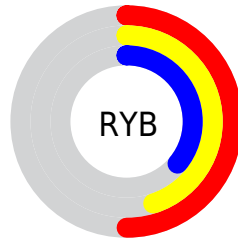
The XYZ color **15.8420, 15.4477, 12.0443** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.2278, 15.8168, 22.7252**, and the grayscale version is **14.9249, 15.7022, 17.0996**.

A 20% lighter version of the original color is **35.7522, 35.5238, 30.1717**, and **5.1286, 4.8353, 3.1456** is the 20% darker color. If you saturate the color by 10%, you get **14.5636, 13.7004, 9.1224**, and if you desaturate by 10%, it is **17.2913, 17.3858, 15.4882**.

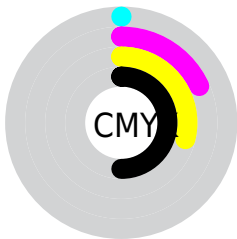
# Distribution



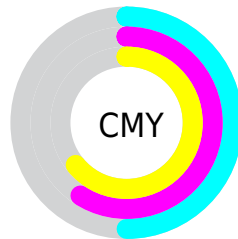
- Red (50%)
- Green (41%)
- Blue (36%)



- Red (50%)
- Yellow (45%)
- Blue (36%)



- Cyan (0%)
- Magenta (18%)
- Yellow (29%)
- Black (50%)



- Cyan (50%)
- Magenta (59%)
- Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 15.8420, 15.4477, 12.0443 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 15.8420, 15.4477, 12.0443 by changing the saturation by 10% instead.



■ 15.8420, 15.4477,  
12.0443

■ 15.8420, 15.4477,  
12.0443

221.6963,  
226.0603, 215.6867

■ 9.5026, 9.1342,  
6.6509

■ 35.8834, 35.6367,  
30.2414

■ 5.1301, 4.8288,  
3.1697

■ 50.3160, 50.2810,  
43.8822

■ 2.3594, 2.1472,  
1.1819

■ 68.1770, 68.4709,  
61.1092

■ 0.8248, 0.6910,  
0.0000

■ 89.8319, 90.5910,  
82.3410

■ 0.0000, 0.0000,  
0.0000

115.6459,  
117.0256, 107.9961

145.9844,

148.1591, 138.4930

181.2128,  
184.3758, 174.2504

■ 15.8420, 15.4477,  
12.0443

■ 15.8420, 15.4477,  
12.0443

■ 14.5636, 13.7004,  
9.1224

■ 17.2913, 17.3858,  
15.4882

■ 13.4479, 12.1356,  
6.6958

■ 18.9166, 19.5183,  
19.4773

■ 12.4881, 10.7477,  
4.7366

■ 20.7245, 21.8514,  
24.0344

■ 11.6761, 9.5299,  
3.2138

■ 22.7207, 24.3903,  
29.1807

■ 11.0032, 8.4748,  
2.0928

■ 24.9108, 27.1402,  
34.9365

■ 10.4592, 7.5744,  
1.3334

■ 27.2999, 30.1058,  
41.3209

■ 10.0212, 6.8152,  
0.8275

■ 29.8932, 33.2920,  
48.3522

■ 9.9772, 6.7395,  
0.7750

■ 32.6955, 36.7032,  
56.0482

■ 35.7115, 40.3439,  
64.4257

# Harmonies

## Analogous

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



16.6732, 15.4477, 14.0076



15.8420, 15.4477, 12.0443



14.7333, 15.4477, 11.3335

# Triad

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



15.8420, 15.4477, 12.0443



12.6154, 15.4477, 16.6752



15.7499, 15.4477, 22.8934

# Complementary

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



15.8420, 15.4477, 12.0443



14.2278, 15.8168, 22.7252

# 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.



14.6320, 15.4477, 23.8409



15.8420, 15.4477, 12.0443



12.8571, 15.4477, 19.9854

# Square

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



15.8420, 15.4477, 12.0443



12.9035, 15.4477, 13.7864



13.5811, 15.4477, 22.7156



16.6181, 15.4477, 20.2687



# Rectangle

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



15.8420, 15.4477, 12.0443



13.9980, 15.4477, 11.5856



13.5811, 15.4477, 22.7156



15.3891, 15.4477, 23.4324

# Sweetspot

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



15.8424, 15.4484, 12.0446



33.2147, 34.2466, 34.0665



15.7053, 13.2964, 17.7880



7.6886, 7.9036, 7.7578



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



15.8424, 15.4484, 12.0446



26.3081, 25.0407, 17.5610



17.8817, 19.5271, 12.7244



4.4508, 4.5903, 4.5716



9.8944, 6.6852, 0.7689



0.0000, 0.0000, 0.0000



# Inverse Universe

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



14.2278, 15.8168, 22.7252



22.9547, 25.8002, 39.7264



12.3876, 12.1365, 22.1118



4.3139, 4.6219, 5.4780



6.6773, 7.1731, 21.2826



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 15.8420, 15.4477, 12.0443 looks on a white 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 × Fail



# Black Background



This preview shows how the XYZ color 15.8420, 15.4477, 12.0443 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 15.8420, 15.4477, 12.0443**

## **Background**



This preview shows how black text looks on a background with the XYZ color 15.8420, 15.4477, 12.0443.



This preview shows how white text looks on a background with the XYZ color 15.8420, 15.4477,



# 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

15.8420, 15.4477, 12.0443

### Protanopia

14.5147, 15.3724, 12.5581

### Deuteranopia

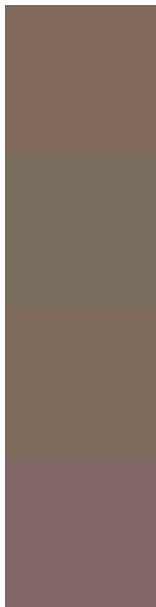
15.6923, 15.3705, 12.0373



## Tritanopia

16.7718, 15.3744, 16.8354

# Trichromacy



## Original Color

15.8420, 15.4477, 12.0443

## Protanomaly

15.0401, 15.4909, 12.3226

## Deuteranomaly

15.6923, 15.3705, 12.0373

## Tritanomaly

16.3517, 15.3469, 14.9324

# Monochromacy



## Original Color

15.8420, 15.4477, 12.0443

## Achromatopsia

14.8208, 15.5926, 16.9804

## Achromatomaly

15.1469, 15.4863, 15.0228

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 15.8420, 15.4477, 12.0443 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(128, 105, 91)` looks like.

```
.text, #text, p{  
    color:rgb(128, 105, 91)  
}
```

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(128, 105, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 105, 91) }
```

## Border

The CSS property to change the border of an element to XYZ 15.8420, 15.4477, 12.0443 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(128, 105, 91) }
```



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

```
.border{ border-color:rgb(128, 105, 91) }
```

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

Here you see how a box with a 4 pixel rgb(128, 105, 91) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 105, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 105, 91);  
box-shadow:4px 4px 4px 4px rgb(128, 105,  
91) }
```

# Background

The CSS property to change the background color of an element to XYZ 15.8420, 15.4477, 12.0443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 105, 91) }
```

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

```
.background{ background-color: rgb(128,  
105, 91) }
```

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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