

# Converting Colors

XYZ(15.9665, 17.9757, 10.7896)

Have a look what the booklet for  
XYZ(15.9665, 17.9757, 10.7896)  
contains.

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# Color

**XYZ(16.0235, 18.0505,  
10.8232)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	787853
RGB	120, 120, 83
RGB Percent	47%, 47%, 33%
CMY	0.5294, 0.5294, 0.6745
CMYK	0.00, 0.00, 0.31, 0.53
HSL	60°, 18%, 40%
HSV	60°, 31%, 47%
XYZ	16.0235, 18.0505, 10.8232
YIQ	115.7820, 11.8770, -11.5070

# Conversions

## Conversions Part 2

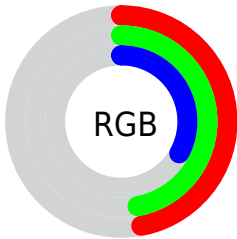
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	83, 120, 83
Decimal	7895123
CIE Lab	49.56, -6.36, 20.38
CIE LCh	50, 21.353, 107.335
Yxy	18.0505, 0.3569, 0.4020
Android (android.graphics.Color)	4286085203 (0xFF787853)
YUV	115.7820, -16.1615, 3.6992
Hunter-Lab	42.4859, -7.0292, 14.6361

# Details

The XYZ color **16.0235, 18.0505, 10.8232** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **10.0514, 9.3821, 19.0514**, and the grayscale version is **16.5794, 17.4428, 18.9952**.

A 20% lighter version of the original color is **36.2197, 40.0827, 28.0181**, and **5.2498, 6.1079, 2.6525** is the 20% darker color. If you saturate the color by 10%, you get **15.5998, 17.8816, 8.5907**, and if you desaturate by 10%, it is **16.5283, 18.2531, 13.4789**.

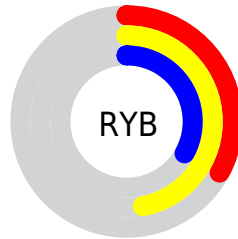
# Distribution



Red (47%)

Green (47%)

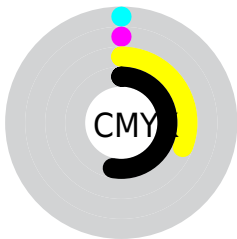
Blue (33%)



Red (33%)

Yellow (47%)

Blue (33%)

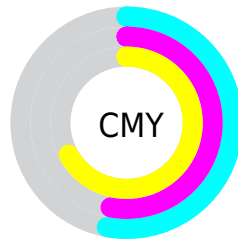


Cyan (0%)

Magenta (0%)

Yellow (31%)

Black (53%)



Cyan (53%)

Magenta (53%)

Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.0235, 18.0505, 10.8232 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 16.0235, 18.0505, 10.8232 by changing the saturation by 10% instead.



■ 16.0235, 18.0505,  
10.8232

■ 16.0235, 18.0505,  
10.8232

222.7480,  
241.1555, 207.1443

■ 9.6317, 10.9862,  
5.8354

■ 36.1961, 40.1234,  
27.9644

■ 5.2159, 6.0576,  
2.6781

■ 50.7077, 55.9008,  
40.9549

■ 2.4105, 2.8801,  
0.9324

■ 68.6565, 75.3513,  
57.4500

■ 0.8504, 1.0695,  
0.0000

■ 90.4081, 98.8595,  
77.8683

■ 0.0000, 0.0000,  
0.0000

■ 116.3276,  
126.8095, 102.6284

146.7806,

159.5860, 132.1487

182.1323,  
197.5732, 166.8478

■ 16.0235, 18.0505,  
10.8232

■ 16.0235, 18.0505,  
10.8232

■ 15.5998, 17.8816,  
8.5907

■ 16.5283, 18.2531,  
13.4789

■ 15.2517, 17.7424,  
6.7585

■ 17.1168, 18.4885,  
16.5769

■ 14.9753, 17.6318,  
5.3034

■ 17.7929, 18.7589,  
20.1365

■ 14.7654, 17.5478,  
4.1990

■ 18.5600, 19.0658,  
24.1755

■ 14.6165, 17.4883,  
3.4158

■ 19.4214, 19.4104,  
28.7107

■ 14.5221, 17.4505,  
2.9195

■ 20.3801, 19.7939,  
33.7582

■ 14.4616, 17.4263,  
2.6014

■ 21.4389, 20.2174,  
39.3333

■ 22.6008, 20.6822,  
45.4507

■ 23.8683, 21.1892,  
52.1245

# Harmonies

## Analogous

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



18.0234, 18.0505, 10.6662



16.0235, 18.0505, 10.8232



14.4525, 18.0505, 13.0302

# Triad

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



16.0235, 18.0505, 10.8232



14.6533, 18.0505, 29.0351



21.2379, 18.0505, 22.1987

# Complementary

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



16.0235, 18.0505, 10.8232



10.0514, 9.3821, 19.0514

# 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.



20.1783, 18.0505, 28.2107



16.0235, 18.0505, 10.8232



16.3177, 18.0505, 32.6480

# Square

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



16.0235, 18.0505, 10.8232



13.7051, 18.0505, 23.1631



18.3416, 18.0505, 32.3197



21.1434, 18.0505, 16.5184



# Rectangle

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



16.0235, 18.0505, 10.8232



13.8119, 18.0505, 15.6665



18.3416, 18.0505, 32.3197



21.0016, 18.0505, 24.2663

# Sweetspot

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



16.0240, 18.0513, 10.8236



30.2850, 32.5887, 30.1087



12.4009, 10.8046, 9.6158



7.1449, 7.7102, 6.9648



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256



# Same Dimension

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



16.0240, 18.0513, 10.8236



27.6400, 31.5306, 16.1836



13.7015, 16.8540, 10.7149



4.3077, 4.6339, 4.2919



15.7759, 19.0100, 2.8378



75.2523, 90.6794, 13.5367



# Inverse Universe

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



10.0514, 9.3821, 19.0514



15.3672, 13.7165, 33.0907



11.9069, 10.3386, 19.1383



3.7977, 3.8936, 4.9946



3.6986, 1.4795, 19.4759



17.6424, 7.0570, 92.9021



# Previews

## White Background



This preview shows how the XYZ color 16.0235, 18.0505, 10.8232 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 16.0235, 18.0505, 10.8232 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 × Fail

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

**XYZ 16.0235, 18.0505, 10.8232**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.0235, 18.0505, 10.8232.



This preview shows how white text looks on a background with the XYZ color 16.0235, 18.0505,



# 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

16.0235, 18.0505, 10.8232

### Protanopia

16.7538, 18.0781, 10.5890

### Deuteranopia

18.3600, 18.0416, 11.1090



## Tritanopia

18.2263, 18.0767, 21.5973

# Trichromacy



## Original Color

16.0235, 18.0505, 10.8232

## Protanomaly

16.4320, 18.0879, 10.6079

## Deuteranomaly

17.5185, 18.1174, 10.9612

## Tritanomaly

17.2900, 18.0377, 17.0383

# Monochromacy



## Original Color

16.0235, 18.0505, 10.8232

## Achromatopsia

16.6002, 17.4647, 19.0191

## Achromatomaly

16.1961, 17.5040, 15.6217

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.0235, 18.0505, 10.8232 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(120, 120, 83)` looks like.

```
.text, #text, p{  
    color:rgb(120, 120, 83)  
}
```

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(120, 120, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 120, 83) }
```

## Border

The CSS property to change the border of an element to XYZ 16.0235, 18.0505, 10.8232 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(120, 120, 83) }
```



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

```
.border{ border-color:rgb(120, 120, 83) }
```

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

Here you see how a box with a 4 pixel rgb(120, 120, 83) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 120, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 120, 83);  
box-shadow:4px 4px 4px 4px rgb(120, 120,  
83) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.0235, 18.0505, 10.8232 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 120, 83) }
```

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

```
.background{ background-color: rgb(120,  
120, 83) }
```

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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