

# Converting Colors

XYZ(18.8386, 18.6823, 16.2488)

Have a look what the booklet for  
XYZ(18.8386, 18.6823, 16.2488)  
contains.

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# Color

**XYZ(18.8386, 18.6823,  
16.2488)**

# Conversions

## Conversions Part 1

Format	Color
Hex	87746A
RGB	135, 116, 106
RGB Percent	53%, 45%, 42%
CMY	0.4706, 0.5451, 0.5843
CMYK	0.00, 0.14, 0.21, 0.47
HSL	21°, 12%, 47%
HSV	21°, 21%, 53%
XYZ	18.8386, 18.6823, 16.2488
YIQ	120.5410, 14.5340, 0.9180

# Conversions

## Conversions Part 2

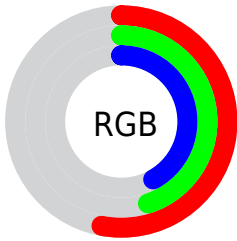
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 121, 106
Decimal	8877162
CIE Lab	50.31, 5.69, 8.25
CIE LCh	50, 10.021, 55.406
Yxy	18.6823, 0.3504, 0.3475
Android (android.graphics.Color)	4287067242 (0xFF87746A)
YUV	120.5410, -7.1687, 12.6805
Hunter-Lab	43.2230, 2.1583, 7.9673

# Details

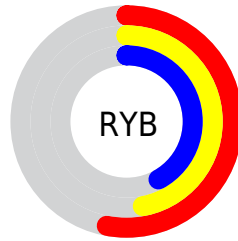
The XYZ color **18.8386, 18.6823, 16.2488** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **17.6505, 19.4802, 25.7516**, and the grayscale version is **18.0455, 18.9853, 20.6750**.

A 20% lighter version of the original color is **41.0747, 41.2584, 37.6971**, and **6.6029, 6.3813, 5.0214** is the 20% darker color. If you saturate the color by 10%, you get **17.2199, 16.4812, 12.5140**, and if you desaturate by 10%, it is **20.6660, 21.1234, 20.5989**.

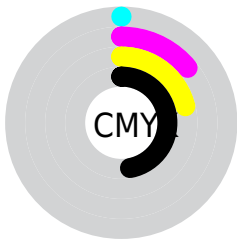
# Distribution



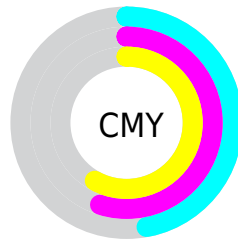
- Red (53%)
- Green (45%)
- Blue (42%)



- Red (53%)
- Yellow (47%)
- Blue (42%)



- Cyan (0%)
- Magenta (14%)
- Yellow (21%)
- Black (47%)



- Cyan (47%)
- Magenta (55%)
- Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8386, 18.6823, 16.2488 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 18.8386, 18.6823, 16.2488 by changing the saturation by 10% instead.



■ 18.8386, 18.6823,  
16.2488

■ 18.8386, 18.6823,  
16.2488

238.5115,  
244.6892, 242.7010

■ 11.6570, 11.4409,  
9.5441

■ 40.9802, 41.1966,  
37.8024

■ 6.5811, 6.3642,  
4.9961

■ 56.6709, 57.2383,  
53.4884

■ 3.2455, 3.0678,  
2.1863

■ 75.9287, 76.9822,  
73.0052

■ 1.2849, 1.1672,  
0.6664

■ 99.1190, 100.8128,  
96.7714

■ 0.1719, 0.0347,  
0.0000

126.6070,  
129.1144, 125.2056

■ 0.0000, 0.0000,  
0.0000

158.7582,

162.2714, 158.7262

195.9379,  
200.6682, 197.7518

■ 18.8386, 18.6823,  
16.2488

■ 18.8386, 18.6823,  
16.2488

■ 17.2199, 16.4812,  
12.5140

■ 20.6660, 21.1234,  
20.5989

■ 15.8004, 14.5101,  
9.3653

■ 22.7078, 23.8092,  
25.5895

■ 14.5723, 12.7621,  
6.7727

■ 24.9718, 26.7472,  
31.2455

■ 13.5265, 11.2288,  
4.7033

■ 27.4645, 29.9441,  
37.5904

■ 12.6533, 9.9012,  
3.1206

■ 30.1924, 33.4059,  
44.6466

■ 11.9415, 8.7697,  
1.9831

■ 33.1616, 37.1389,  
52.4351

■ 11.3788, 7.8238,  
1.2424

■ 36.3780, 41.1489,  
60.9764

■ 10.9909, 7.1493,  
0.8007

■ 39.8473, 45.4416,  
70.2901

■ 43.5750, 50.0224,  
80.3950

# Harmonies

## Analogous

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



19.4980, 18.6823, 18.1323



18.8386, 18.6823, 16.2488



17.9070, 18.6823, 15.4625

# Triad

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



18.8386, 18.6823, 16.2488



15.9596, 18.6823, 19.9164



18.5703, 18.6823, 25.5660

# Complementary

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



18.8386, 18.6823, 16.2488



17.6505, 19.4802, 25.7516

# 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.



17.6078, 18.6823, 26.1529



18.8386, 18.6823, 16.2488



16.1228, 18.6823, 22.7240

# Square

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



18.8386, 18.6823, 16.2488



16.2635, 18.6823, 17.4536



16.7175, 18.6823, 25.0703



19.3392, 18.6823, 23.5324



# Rectangle

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



18.8386, 18.6823, 16.2488



17.2654, 18.6823, 15.6087



16.7175, 18.6823, 25.0703



18.2577, 18.6823, 25.9465

# Sweetspot

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



18.8391, 18.6831, 16.2492



38.9149, 40.3439, 41.5213



18.8689, 16.9484, 21.7909



8.9662, 9.2826, 9.5033



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424



# Same Dimension

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



18.8391, 18.6831, 16.2492



32.2122, 31.3937, 25.5524



20.5982, 22.2013, 16.8356



4.7942, 4.9320, 4.9287



10.1465, 6.6157, 0.7422



0.0415, 0.0355, 0.0047



# Inverse Universe

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



17.6505, 19.4802, 25.7516



29.6691, 33.0954, 45.8727



15.9835, 16.1462, 25.1959



4.6700, 5.0156, 5.9227



7.2963, 8.1405, 22.3234



0.0321, 0.0419, 0.0796



# Previews

## White Background



This preview shows how the XYZ color 18.8386, 18.6823, 16.2488 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

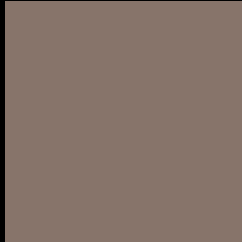
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 18.8386, 18.6823, 16.2488 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

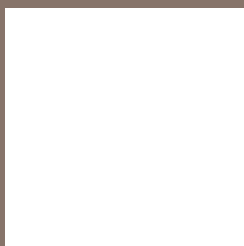
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 18.8386, 18.6823, 16.2488**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.8386, 18.6823, 16.2488.



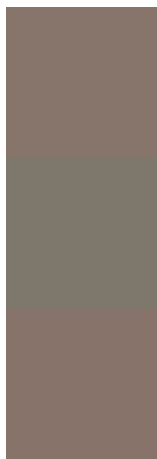
This preview shows how white text looks on a background with the XYZ color 18.8386, 18.6823,



# 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

18.8386, 18.6823, 16.2488

### Protanopia

17.7610, 18.6363, 16.8484

### Deuteranopia

18.8856, 18.5363, 16.2182



## Tritanopia

19.8467, 18.7581, 20.9870

# Trichromacy



## Original Color

18.8386, 18.6823, 16.2488

## Protanomaly

18.1855, 18.6855, 16.5581

## Deuteranomaly

18.8856, 18.5363, 16.2182

## Tritanomaly

19.4365, 18.7567, 19.1190

# Monochromacy



## Original Color

18.8386, 18.6823, 16.2488

## Achromatopsia

18.1737, 19.1202, 20.8219

## Achromatomaly

18.3534, 18.8902, 19.2018

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.8386, 18.6823, 16.2488 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(135, 116, 106)` looks like.

```
.text, #text, p{  
    color:rgb(135, 116, 106)  
}
```

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(135, 116, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 116, 106) }
```

## Border

The CSS property to change the border of an element to XYZ 18.8386, 18.6823, 16.2488 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(135, 116, 106) }
```



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

```
.border{ border-color:rgb(135, 116, 106) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 116, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 116, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 116, 106);  
box-shadow:4px 4px 4px 4px rgb(135, 116,  
106) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.8386, 18.6823, 16.2488 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 116, 106) }
```

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

```
.background{ background-color: rgb(135,  
116, 106) }
```

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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