

# Converting Colors

XYZ(23.2516, 18.6616, 12.9662)

Have a look what the booklet for  
XYZ(23.2516, 18.6616, 12.9662)  
contains.

<b>XYZ(23.2516, 18.6616, 12.9662)</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(23.2516, 18.6616,  
12.9662)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AA655E
RGB	170, 101, 94
RGB Percent	67%, 40%, 37%
CMY	0.3333, 0.6039, 0.6314
CMYK	0.00, 0.41, 0.45, 0.33
HSL	6°, 31%, 52%
HSV	6°, 45%, 67%
XYZ	23.2516, 18.6616, 12.9662
YIQ	120.8330, 43.3710, 12.4510

# Conversions

## Conversions Part 2

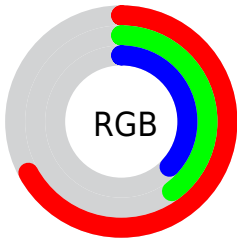
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	170, 102, 94
Decimal	11167070
CIE Lab	50.29, 26.98, 15.89
CIE LCh	50, 31.315, 30.502
Yxy	18.6616, 0.4237, 0.3400
Android (android.graphics.Color)	4289357150 (0xFFAA655E)
YUV	120.8330, -13.2287, 43.1195
Hunter-Lab	43.1991, 20.4780, 12.4435

# Details

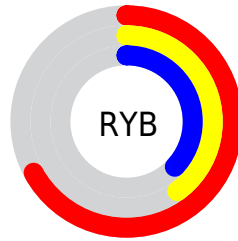
The XYZ color **23.2516, 18.6616, 12.9662** is a dark color, and the websafe version is hex **996666**. A complement of this color would be **24.9682, 31.4747, 42.7893**, and the grayscale version is **18.1521, 19.0974, 20.7971**.

A 20% lighter version of the original color is **48.4202, 41.2901, 31.8033**, and **8.8768, 6.4044, 3.5646** is the 20% darker color. If you saturate the color by 10%, you get **21.2108, 15.6693, 8.9279**, and if you desaturate by 10%, it is **25.7428, 22.2858, 17.9839**.

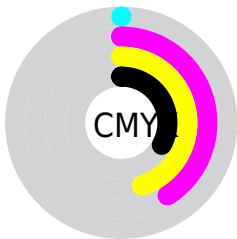
# Distribution



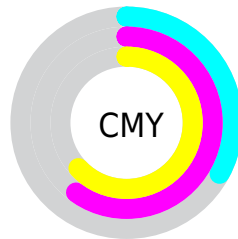
- Red (67%)
- Green (40%)
- Blue (37%)



- Red (67%)
- Yellow (40%)
- Blue (37%)



- Cyan (0%)
- Magenta (41%)
- Yellow (45%)
- Black (33%)




- Cyan (33%)
- Magenta (60%)
- Yellow (63%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2516, 18.6616, 12.9662 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 23.2516, 18.6616, 12.9662 by changing the saturation by 10% instead.





 23.2516, 18.6616,  
12.9662


 23.2516, 18.6616,  
12.9662


261.5259,  
244.5742, 221.9011


 14.9011, 11.4260,  
7.2748


 48.2697, 41.1615,  
31.9333


 8.8359, 6.3541,  
3.5535


 65.6681, 57.1946,  
46.0462

 4.6905, 3.0616,  
1.3837

 86.8132, 76.9290,  
63.8033

 2.0997, 1.1640,  
0.1290

 112.0702,  
100.7491, 85.6231

 0.6891, 0.0320,  
0.0000

141.8047,  
129.0392, 111.9243

 0.0000, 0.0000,  
0.0000

176.3819,

162.1839, 143.1253

216.1672,  
200.5674, 179.6448

■ 23.2516, 18.6616,  
12.9662

■ 23.2516, 18.6616,  
12.9662

■ 21.2108, 15.6693,  
8.9279

■ 25.7428, 22.2858,  
17.9839

■ 19.5920, 13.2700,  
5.8038

■ 28.7077, 26.5722,  
24.0382

■ 18.3658, 11.4249,  
3.5228


■ 32.1695, 31.5527,  
31.1831


■ 17.4984, 10.0896,  
2.0025


■ 36.1498, 37.2560,  
39.4685


■ 16.9501, 9.2124,  
1.1433

■ 40.6686, 43.7096,  
48.9414

 16.7579, 8.9068,  
0.8360

 45.7451, 50.9391,  
59.6461

 51.3974, 58.9693,  
71.6244

 57.6427, 67.8237,  
84.9164

 64.4977, 77.5248,  
99.5604

# Harmonies

## Analogous

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



24.2315, 18.6616, 20.1734



23.2516, 18.6616, 12.9662



20.7667, 18.6616, 8.9734

# Triad

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



23.2516, 18.6616, 12.9662



13.1302, 18.6616, 13.1548



17.7884, 18.6616, 42.0147

# Complementary

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



23.2516, 18.6616, 12.9662



24.9682, 31.4747, 42.7893

# 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.



15.0178, 18.6616, 38.5987



23.2516, 18.6616, 12.9662



12.5214, 18.6616, 20.4659

# Square

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



23.2516, 18.6616, 12.9662



14.9388, 18.6616, 9.0585



13.1720, 18.6616, 30.0303



20.8651, 18.6616, 38.3749



# Rectangle

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



23.2516, 18.6616, 12.9662



18.7172, 18.6616, 7.8968



13.1720, 18.6616, 30.0303



16.7922, 18.6616, 41.6452

# Sweetspot

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



23.2521, 18.6625, 12.9666



59.3700, 58.6867, 58.6562



27.2510, 19.2198, 37.2377



12.9131, 12.6185, 12.4031



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



23.2521, 18.6625, 12.9666



38.3945, 28.2971, 16.0219



27.7343, 27.6269, 14.4606



7.5847, 7.6494, 7.8660



12.3468, 6.5908, 0.6214



0.3171, 0.1938, 0.0207



# Inverse Universe

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



24.9682, 31.4747, 42.7893



41.8968, 54.5872, 77.3301



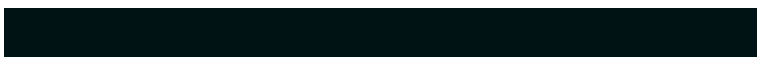
19.2902, 20.1187, 40.8966



7.6876, 8.4121, 9.6369



13.8997, 19.2595, 30.9604



0.3547, 0.5016, 0.7588



# Previews

## White Background



This preview shows how the XYZ color 23.2516, 18.6616, 12.9662 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

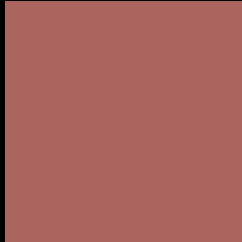
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 23.2516, 18.6616, 12.9662 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

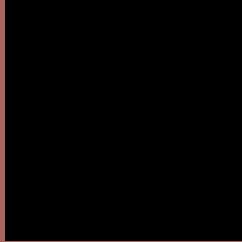
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# XYZ 23.2516, 18.6616, 12.9662

## Background



This preview shows how black text looks on a background with the XYZ color 23.2516, 18.6616, 12.9662.



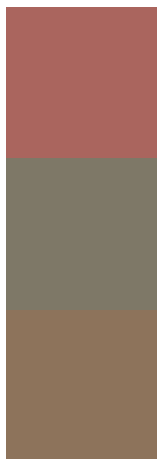
This preview shows how white text looks on a background with the XYZ color 23.2516, 18.6616,



# 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

23.2516, 18.6616, 12.9662

### Protanopia

17.7688, 18.8478, 15.5334

### Deuteranopia

19.0036, 18.6795, 12.5014



## Tritanopia

23.8579, 18.6222, 15.9727

# Trichromacy



## Original Color

23.2516, 18.6616, 12.9662

## Protanomaly

19.3607, 18.4811, 14.6034

## Deuteranomaly

20.4566, 18.6000, 12.6372

## Tritanomaly

23.7500, 18.7316, 14.9342

# Monochromacy



## Original Color

23.2516, 18.6616, 12.9662

## Achromatopsia

18.1737, 19.1202, 20.8219

## Achromatomaly

19.5340, 18.6713, 17.6133

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.2516, 18.6616, 12.9662 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(170, 101, 94)` looks like.

```
.text, #text, p{  
    color:rgb(170, 101, 94)  
}
```

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(170, 101, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 101, 94) }
```

## Border

The CSS property to change the border of an element to XYZ 23.2516, 18.6616, 12.9662 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(170, 101, 94) }
```



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

```
.border{ border-color:rgb(170, 101, 94) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 101, 94)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(170, 101, 94); -webkit-box-shadow:4px 4px 4px 4px rgb(170, 101, 94); box-shadow:4px 4px 4px 4px rgb(170, 101, 94) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.2516, 18.6616, 12.9662 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 101, 94) }
```

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

```
.background{ background-color: rgb(170,  
101, 94) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor