

# Converting Colors

XYZ(16.3991, 23.1331, 16.1377)

Have a look what the booklet for  
XYZ(16.3991, 23.1331, 16.1377)  
contains.

<b>XYZ(16.4542, 23.2363, 16.1882)</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(16.4542, 23.2363,  
16.1882)**

# Conversions

## Conversions Part 1

Format	Color
Hex	579166
RGB	87, 145, 102
RGB Percent	34%, 57%, 40%
CMY	0.6588, 0.4314, 0.6000
CMYK	0.40, 0.00, 0.30, 0.43
HSL	136°, 25%, 45%
HSV	136°, 40%, 57%
XYZ	16.4542, 23.2363, 16.1882
YIQ	122.7560, -20.7650, -25.6690

# Conversions

## Conversions Part 2

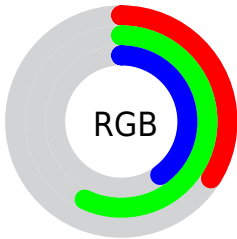
<b>Format</b>	<b>Color</b>
<b>RYB</b>	87, 133, 145
Decimal	5738854
CIELab	55.31, -28.73, 17.00
CIELCh	55, 33.382, 149.377
Yxy	23.2363, 0.2945, 0.4158
Android (android.graphics.Color)	4283928934 (0xFF579166)
YUV	122.7560, -10.2327, -31.3580
Hunter-Lab	48.2040, -23.4270, 13.8317

# Details

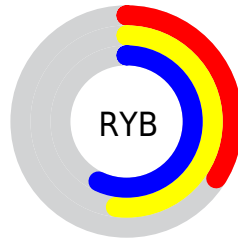
The XYZ color **16.4542, 23.2363, 16.1882** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **19.1154, 14.4485, 22.9016**, and the grayscale version is **18.7844, 19.7627, 21.5215**.

A 20% lighter version of the original color is **36.8207, 48.6357, 37.5840**, and **5.4198, 8.6563, 4.9996** is the 20% darker color. If you saturate the color by 10%, you get **14.7350, 22.4083, 13.5030**, and if you desaturate by 10%, it is **18.5157, 24.2341, 19.2514**.

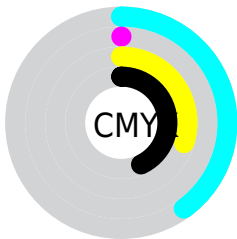
# Distribution



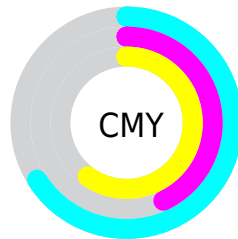
- Red (34%)
- Green (57%)
- Blue (40%)



- Red (34%)
- Yellow (52%)
- Blue (57%)



- Cyan (40%)
- Magenta (0%)
- Yellow (30%)
- Black (43%)



- Cyan (66%)
- Magenta (43%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.4542, 23.2363, 16.1882 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 16.4542, 23.2363, 16.1882 by changing the saturation by 10% instead.



■ 16.4542, 23.2363,  
16.1882

■ 16.4542, 23.2363,  
16.1882

225.2252,  
268.9364, 242.3332

■ 9.9390, 14.7681,  
9.5016

■ 36.9361, 48.7810,  
37.6959

■ 5.4205, 8.6568,  
4.9685

■ 51.6334, 66.6264,  
53.3542

■ 2.5333, 4.5180,  
2.1704

■ 69.7889, 88.3662,  
72.8401

■ 0.9121, 1.9673,  
0.6572

■ 91.7678, 114.3849,  
96.5722

■ 0.0000, 0.5884,  
0.0000

■ 117.9356,  
145.0668, 124.9690

■ 0.0000, 0.0000,  
0.0000

148.6575,

180.7965, 158.4491

184.2989,  
221.9582, 197.4310

■ 16.4542, 23.2363,  
16.1882

■ 16.4542, 23.2363,  
16.1882

■ 14.7350, 22.4083,  
13.5030

■ 18.5157, 24.2341,  
19.2514

■ 13.3373, 21.7378,  
11.1796

■ 20.9353, 25.4074,  
22.7049

■ 12.2408, 21.2151,  
9.2029


■ 23.7298, 26.7656,  
26.5623


■ 11.4219, 20.8286,  
7.5560


■ 26.9145, 28.3160,  
30.8363


■ 10.8534, 20.5645,  
6.2207


■ 30.5038, 30.0660,  
35.5387


 10.4676, 20.3883,  
5.1753

 34.5114, 32.0224,  
40.6811

 10.4676, 20.3883,  
5.1752

 38.9504, 34.1915,  
46.2746

 43.8331, 36.5797,  
52.3298

 49.1716, 39.1929,  
58.8571

# Harmonies

## Analogous

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



18.7404, 23.2363, 11.2566



16.4542, 23.2363, 16.1882



15.6435, 23.2363, 25.0769

# Triad

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



16.4542, 23.2363, 16.1882



22.0072, 23.2363, 52.0063



28.9676, 23.2363, 16.4782

# Complementary

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



16.4542, 23.2363, 16.1882



19.1154, 14.4485, 22.9016

# 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.



30.0899, 23.2363, 25.5252



16.4542, 23.2363, 16.1882



25.8064, 23.2363, 47.8409

# Square

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



16.4542, 23.2363, 16.1882



18.6192, 23.2363, 47.4989



28.8739, 23.2363, 37.3160



25.9571, 23.2363, 11.3878



# Rectangle

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



16.4542, 23.2363, 16.1882



15.9693, 23.2363, 32.7716



28.8739, 23.2363, 37.3160



29.5923, 23.2363, 19.0608

# Sweetspot

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



16.4548, 23.2373, 16.1887



41.3087, 47.3545, 45.9485



21.1294, 25.7254, 12.8691



9.0615, 10.4722, 10.0461



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844



# Same Dimension

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



16.4548, 23.2373, 16.1887



26.6684, 40.2638, 24.6319



18.1195, 23.9032, 24.9551



5.3966, 6.0509, 6.0542



8.9876, 17.4909, 4.4887



0.0939, 0.1704, 0.0848



# Inverse Universe

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



19.1154, 14.4485, 22.9016



32.1079, 22.2658, 38.3348



17.4595, 13.7862, 14.1821



5.5675, 5.4875, 6.4865



12.3257, 6.0873, 12.6325



0.1268, 0.0618, 0.1681



# Previews

## White Background



This preview shows how the XYZ color 16.4542, 23.2363, 16.1882 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 16.4542, 23.2363, 16.1882 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 16.4542, 23.2363, 16.1882**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.4542, 23.2363, 16.1882.



This preview shows how white text looks on a background with the XYZ color 16.4542, 23.2363,



# 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

16.4542, 23.2363, 16.1882

### Protanopia

21.5179, 23.0978, 14.3905

### Deuteranopia

23.3278, 22.9917, 16.8440



## Tritanopia

19.6674, 23.2086, 32.2973

# Trichromacy



## Original Color

16.4542, 23.2363, 16.1882

## Protanomaly

19.1763, 22.9107, 14.9668

## Deuteranomaly

20.1282, 22.7372, 16.6925

## Tritanomaly

18.2727, 23.0704, 25.6803

# Monochromacy



## Original Color

16.4542, 23.2363, 16.1882

## Achromatopsia

18.8265, 19.8069, 21.5697

## Achromatomaly

17.6412, 20.7854, 19.3018

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.4542, 23.2363, 16.1882 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(87, 145, 102)` looks like.

```
.text, #text, p{  
    color:rgb(87, 145, 102)  
}
```

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(87, 145, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 145, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 16.4542, 23.2363, 16.1882 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(87, 145, 102) }
```



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

```
.border{ border-color:rgb(87, 145, 102) }
```

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

Here you see how a box with a 4 pixel rgb(87, 145, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 145, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 145, 102);  
box-shadow:4px 4px 4px 4px rgb(87, 145,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.4542, 23.2363, 16.1882 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 145, 102) }
```

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

```
.background{ background-color: rgb(87, 145,  
102) }
```

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