

# Converting Colors

XYZ(16.5128, 28.1233, 8.3009)

Have a look what the booklet for  
XYZ(16.5128, 28.1233, 8.3009)  
contains.

<b>XYZ(16.5151, 28.1385, 8.3022)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(16.5151, 28.1385,  
8.3022)**

# Conversions

## Conversions Part 1

Format	Color
Hex	46A438
RGB	70, 164, 56
RGB Percent	27%, 64%, 22%
CMY	0.7255, 0.3569, 0.7804
CMYK	0.57, 0.00, 0.66, 0.36
HSL	112°, 49%, 43%
HSV	112°, 66%, 64%
XYZ	16.5151, 28.1385, 8.3022
YIQ	123.5820, -21.3560, -53.5160

# Conversions

## Conversions Part 2

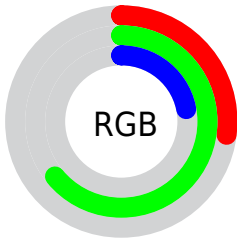
<b>Format</b>	<b>Color</b>
<b>RYB</b>	56, 164, 150
Decimal	4629560
CIELab	60.01, -48.64, 46.25
CIELCh	60, 67.116, 136.441
Yxy	28.1385, 0.3119, 0.5314
Android (android.graphics.Color)	4282819640 (0xFF46A438)
YUV	123.5820, -33.3179, -46.9914
Hunter-Lab	53.0457, -37.2564, 27.8525

# Details

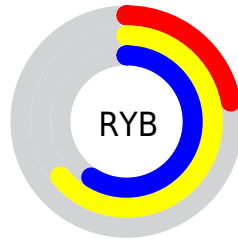
The XYZ color **16.5151, 28.1385, 8.3022** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **20.6940, 11.9936, 36.3477**, and the grayscale version is **19.1321, 20.1285, 21.9199**.

A 20% lighter version of the original color is **37.0524, 56.7811, 23.1943**, and **5.6844, 11.3689, 1.8948** is the 20% darker color. If you saturate the color by 10%, you get **15.2679, 27.5354, 6.4824**, and if you desaturate by 10%, it is **18.1398, 28.9227, 10.8267**.

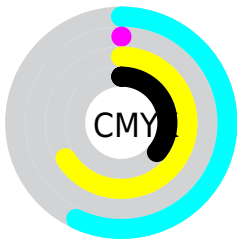
# Distribution



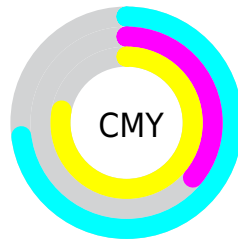
- Red (27%)
- Green (64%)
- Blue (22%)



- Red (22%)
- Yellow (64%)
- Blue (59%)



- Cyan (57%)
- Magenta (0%)
- Yellow (66%)
- Black (36%)




- Cyan (73%)
- Magenta (36%)
- Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.5151, 28.1385, 8.3022 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 16.5151, 28.1385, 8.3022 by changing the saturation by 10% instead.





 16.5151, 28.1385,  
8.3022


 16.5151, 28.1385,  
8.3022


225.5735,  
293.1281, 188.1057


 9.9825, 18.4301,  
4.1984


 37.0404, 56.7055,  
23.1047


 5.4496, 11.2592,  
1.7348


 51.7639, 76.3329,  
34.6404


 2.5508, 6.2415,  
0.3844


 69.9484, 100.0353,  
49.4905

 0.9210, 2.9925,  
0.0000

 91.9592, 128.1973,  
68.0735

 0.0000, 1.1278,  
0.0000

 118.1618,  
161.2032, 90.8080

 0.0000, 0.0015,  
0.0000

 148.9215,

 0.0000, 0.0000,

199.4373, 118.1125

0.0000

184.6036,  
243.2842, 150.4056

■ 16.5151, 28.1385,  
8.3022

■ 16.5151, 28.1385,  
8.3022

■ 15.2679, 27.5354,  
6.4824

■ 18.1398, 28.9227,  
10.8267

■ 14.3653, 27.0954,  
5.2941

■ 20.1676, 29.8974,  
14.1159

■ 13.7700, 26.8023,  
4.6430

■ 22.6239, 31.0752,  
18.2254

■ 13.5907, 26.7142,  
4.4401

■ 25.5317, 32.4670,  
23.2052

■ 28.9121, 34.0827,  
29.1013

■ 32.7850, 35.9316,  
35.9565

■ 37.1692, 38.0224,  
43.8109

■ 42.0824, 40.3635,  
52.7022

■ 47.5414, 42.9629,  
62.6662

# Harmonies

## Analogous

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



22.3575, 28.1385, 4.0364



16.5151, 28.1385, 8.3022



13.7379, 28.1385, 20.8747

# Triad

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



16.5151, 28.1385, 8.3022



23.0737, 28.1385, 102.9559



45.8079, 28.1385, 19.1535

# Complementary

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



16.5151, 28.1385, 8.3022



20.6940, 11.9936, 36.3477

# 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.



46.1149, 28.1385, 43.0511



16.5151, 28.1385, 8.3022



31.6714, 28.1385, 101.5872

# Square

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



16.5151, 28.1385, 8.3022



16.9427, 28.1385, 78.9722



40.5105, 28.1385, 75.8664



39.7443, 28.1385, 7.6207



# Rectangle

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



16.5151, 28.1385, 8.3022



13.5119, 28.1385, 36.2277



40.5105, 28.1385, 75.8664



46.6263, 28.1385, 25.6551

# Sweetspot

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



16.5158, 28.1397, 8.3028



49.5938, 60.4853, 47.7692



26.8674, 29.8646, 8.0902



10.4899, 13.0549, 9.8296



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



16.5158, 28.1397, 8.3028



26.8794, 49.5740, 10.6329



17.0002, 28.2301, 15.5237



7.0670, 7.9370, 7.5396



10.4444, 20.4948, 3.4054



0.2428, 0.4427, 0.0726



# Inverse Universe

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



20.6940, 11.9936, 36.3477



34.9068, 17.9820, 65.3834



20.3884, 12.1869, 20.4804



7.2736, 7.1554, 8.9008



13.8176, 6.5297, 27.4619



0.3138, 0.1493, 0.5781



# Previews

## White Background



This preview shows how the XYZ color 16.5151, 28.1385, 8.3022 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 16.5151, 28.1385, 8.3022 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 16.5151, 28.1385, 8.3022**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.5151, 28.1385, 8.3022.



This preview shows how white text looks on a background with the XYZ color 16.5151, 28.1385,



# 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

16.5151, 28.1385, 8.3022

### Protanopia

25.2469, 27.7539, 7.0440

### Deuteranopia

28.2599, 27.7380, 8.8655



## Tritanopia

22.7884, 27.8628, 40.2534

# Trichromacy



## Original Color

16.5151, 28.1385, 8.3022

## Protanomaly

20.5885, 26.9703, 7.3695

## Deuteranomaly

21.9507, 26.7042, 8.5549

## Tritanomaly

19.5692, 27.5516, 24.0252

# Monochromacy



## Original Color

16.5151, 28.1385, 8.3022

## Achromatopsia

19.1579, 20.1556, 21.9495

## Achromatomaly

17.1937, 22.3091, 15.2043

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.5151, 28.1385, 8.3022 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(70, 164, 56)` looks like.

```
.text, #text, p{  
    color:rgb(70, 164, 56)  
}
```

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(70, 164, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 164, 56) }
```

## Border

The CSS property to change the border of an element to XYZ 16.5151, 28.1385, 8.3022 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(70, 164, 56) }
```



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

```
.border{ border-color:rgb(70, 164, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 164, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 164, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 164, 56);  
box-shadow:4px 4px 4px 4px rgb(70, 164,  
56) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.5151, 28.1385, 8.3022 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 164, 56) }
```

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

```
.background{ background-color: rgb(70, 164,  
56) }
```

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**