

# Converting Colors

XYZ(16.9468, 30.3548, 4.9659)

Have a look what the booklet for  
XYZ(16.9468, 30.3548, 4.9659)  
contains.

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# Color

**XYZ(16.9468, 30.3548,  
4.9659)**

# Conversions

## Conversions Part 1

Format	Color
Hex	44AB00
RGB	68, 171, 0
RGB Percent	27%, 67%, 0%
CMY	0.7333, 0.3294, 0.9999
CMYK	0.60, 0.00, 1.00, 0.33
HSL	96°, 100%, 34%
HSV	96°, 100%, 67%
XYZ	16.9468, 30.3548, 4.9659
YIQ	120.7090, -6.4970, -75.0170

# Conversions

## Conversions Part 2

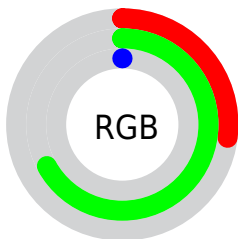
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 171, 103
Decimal	4500224
CIELab	61.96, -54.61, 62.96
CIELCh	62, 83.342, 130.941
Yxy	30.3548, 0.3242, 0.5808
Android (android.graphics.Color)	4282690304 (0xFF44AB00)
YUV	120.7090, -59.5095, -46.2258
Hunter-Lab	55.0952, -41.5115, 33.2226

# Details

The XYZ color **16.9468, 30.3548, 4.9659** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **12.9472, 5.8256, 38.9719**, and the grayscale version is **18.2687, 19.2201, 20.9307**.

A 20% lighter version of the original color is **37.7584, 60.0997, 16.0889**, and **6.3613, 12.7226, 2.1204** is the 20% darker color. If you saturate the color by 10%, you get **16.9467, 30.3557, 4.9661**, and if you desaturate by 10%, it is **17.8322, 30.8004, 5.5404**.

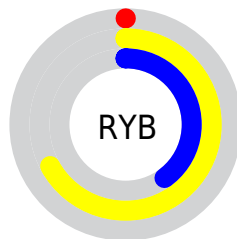
# Distribution



Red (27%)

Green (67%)

Blue (0%)



Red (0%)

Yellow (67%)

Blue (40%)

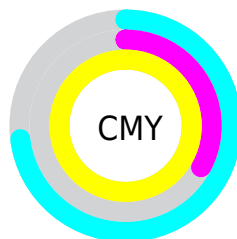


Cyan (60%)

Magenta (0%)

Yellow (100%)

Black (33%)



Cyan (73%)

Magenta (33%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.9468, 30.3548, 4.9659 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 16.9468, 30.3548, 4.9659 by changing the saturation by 10% instead.



■ 16.9468, 30.3548,  
4.9659

■ 16.9468, 30.3548,  
4.9659

228.0278,  
303.5548, 158.4225

■ 10.2916, 20.1080,  
2.1689

■ 37.7786, 60.2228,  
16.1824

■ 5.6565, 12.4736,  
0.6563

■ 52.6860, 80.6129,  
25.4389

■ 2.6760, 7.0671,  
0.0000

■ 71.0748, 105.1528,  
37.6857

■ 0.9848, 3.5041,  
0.0000

■ 93.3104, 134.2271,  
53.3413

■ 0.0000, 1.4002,  
0.0000

■ 119.7581,  
168.2200, 72.8243


■ 0.0000, 0.2169,  
0.0000


■ 150.7834,


■ 0.0000, 0.0000,


207.5160, 96.5531


0.0000


 186.7515,  
252.4994, 124.9463


 16.9468, 30.3548,  
4.9659


 16.9468, 30.3548,  
4.9659

 16.9467, 30.3557,  
4.9661

 17.8322, 30.8004,  
5.5404

 18.9372, 31.3481,  
6.5826

 20.3032, 32.0162,  
8.2785

 21.9517, 32.8138,  
10.7127

 23.9014, 33.7492,  
13.9573

■ 26.1691, 34.8294,  
18.0754

■ 28.7704, 36.0614,  
23.1243

■ 31.7194, 37.4512,  
29.1562

■ 35.0297, 39.0048,  
36.2194

# Harmonies

## Analogous

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



24.9659, 30.3548, 1.9791



16.9468, 30.3548, 4.9659



12.9459, 30.3548, 16.7656

# Triad

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



16.9468, 30.3548, 4.9659



22.3937, 30.3548, 131.8693



55.4772, 30.3548, 22.7021

# Complementary

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



16.9468, 30.3548, 4.9659



12.9472, 5.8256, 38.9719

# 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.



54.2697, 30.3548, 57.4667



16.9468, 30.3548, 4.9659



33.1204, 30.3548, 137.6181

# Square

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



16.9468, 30.3548, 4.9659



15.4837, 30.3548, 91.9229



45.3282, 30.3548, 104.6407



48.2951, 30.3548, 6.9165



# Rectangle

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



16.9468, 30.3548, 4.9659



12.2700, 30.3548, 34.0708



45.3282, 30.3548, 104.6407



56.0783, 30.3548, 32.0522

# Sweetspot

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



16.9475, 30.3561, 4.9666



51.2566, 64.4548, 40.8799



21.6069, 18.2812, 2.3903



10.9917, 14.1661, 8.2531



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.



16.9475, 30.3561, 4.9666



30.1254, 54.2476, 8.8831



14.6659, 29.1681, 5.3921



8.1945, 9.0889, 8.5358



12.8307, 22.9116, 3.7461



0.4196, 0.6697, 0.1071



# Inverse Universe

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



12.9472, 5.8256, 38.9719



22.9397, 10.3051, 69.7819



22.6203, 10.9886, 31.4591



8.0242, 7.9868, 10.0714



9.8196, 4.4221, 29.3805



0.3326, 0.1536, 0.8201



# Previews

## White Background



This preview shows how the XYZ color 16.9468, 30.3548, 4.9659 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

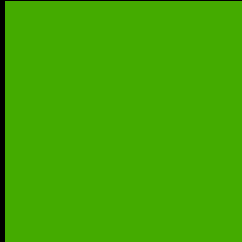
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 16.9468, 30.3548, 4.9659 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 ✓ Pass

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

**XYZ 16.9468, 30.3548, 4.9659**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.9468, 30.3548, 4.9659.



This preview shows how white text looks on a background with the XYZ color 16.9468, 30.3548,



# 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

16.9468, 30.3548, 4.9659

### Protanopia

26.8959, 29.8197, 4.3382

### Deuteranopia

30.3368, 29.7419, 5.8109



## Tritanopia

24.6684, 30.2616, 43.5706

# Trichromacy



## Original Color

16.9468, 30.3548, 4.9659



## Protanomaly

21.5727, 29.0195, 4.4643



## Deuteranomaly

22.8845, 28.4476, 5.0954



## Tritanomaly

19.6953, 29.2769, 19.0810

# Monochromacy



## Original Color

16.9468, 30.3548, 4.9659



## Achromatopsia

18.1737, 19.1202, 20.8219



## Achromatomaly

16.0517, 21.8258, 10.3880

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.9468, 30.3548, 4.9659 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(68, 171, 0)` looks like.

```
.text, #text, p{  
    color:rgb(68, 171, 0)  
}
```

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(68, 171, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 171, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 16.9468, 30.3548, 4.9659 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(68, 171, 0) }
```



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

```
.border{ border-color:rgb(68, 171, 0) }
```

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

Here you see how a box with a 4 pixel rgb(68, 171, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 171, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 171, 0);  
box-shadow:4px 4px 4px 4px rgb(68, 171, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 16.9468, 30.3548, 4.9659 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 171, 0) }
```

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

```
.background{ background-color: rgb(68, 171,  
0) }
```

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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