

# Converting Colors

XYZ(16.9639, 30.0851, 4.9142)

Have a look what the booklet for  
XYZ(16.9639, 30.0851, 4.9142)  
contains.

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# Color

**XYZ(16.9733, 30.0890,  
4.9132)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47AA00
RGB	71, 170, 0
RGB Percent	28%, 67%, 0%
CMY	0.7216, 0.3333, 0.9999
CMYK	0.58, 0.00, 1.00, 0.33
HSL	95°, 100%, 33%
HSV	95°, 100%, 67%
XYZ	16.9733, 30.0890, 4.9132
YIQ	121.0190, -4.4340, -73.8580

# Conversions

## Conversions Part 2

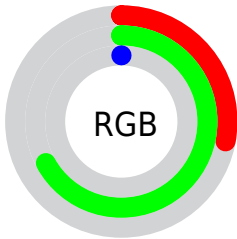
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 170, 99
Decimal	4696576
CIELab	61.73, -53.48, 62.82
CIElCh	62, 82.499, 130.411
Yxy	30.0890, 0.3266, 0.5789
Android (android.graphics.Color)	4282886656 (0xFF47AA00)
YUV	121.0190, -59.6624, -43.8667
Hunter-Lab	54.8534, -40.7603, 33.0868

# Details

The XYZ color **16.9733, 30.0890, 4.9132** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **12.4039, 5.5565, 38.4505**, and the grayscale version is **18.3694, 19.3261, 21.0461**.

A 20% lighter version of the original color is **37.7925, 59.7124, 16.0123**, and **6.3613, 12.7226, 2.1204** is the 20% darker color. If you saturate the color by 10%, you get **16.9732, 30.0899, 4.9133**, and if you desaturate by 10%, it is **17.8616, 30.5361, 5.4837**.

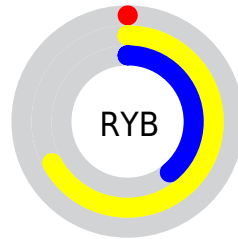
# Distribution



Red (28%)

Green (67%)

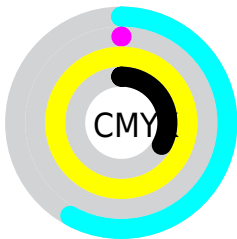
Blue (0%)



Red (0%)

Yellow (67%)

Blue (39%)

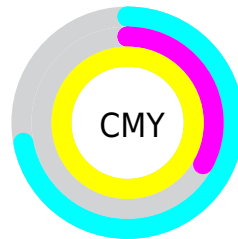


Cyan (58%)

Magenta (0%)

Yellow (100%)

Black (33%)



Cyan (72%)

Magenta (33%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.9733, 30.0890, 4.9132 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 16.9733, 30.0890, 4.9132 by changing the saturation by 10% instead.



■ 16.9733, 30.0890,  
4.9132

■ 16.9733, 30.0890,  
4.9132

228.1777,  
302.3191, 157.8911

■ 10.3106, 19.9062,  
2.1386

■ 37.8238, 59.8029,  
16.0664

■ 5.6692, 12.3268,  
0.6386

■ 52.7424, 80.1027,  
25.2821

■ 2.6838, 6.9667,  
0.0000

■ 71.1437, 104.5437,  
37.4819

■ 0.9888, 3.4413,  
0.0000

■ 93.3930, 133.5102,  
53.0843

■ 0.0000, 1.3662,  
0.0000

■ 119.8557,  
167.3865, 72.5079


■ 0.0000, 0.1916,  
0.0000


■ 150.8971,


■ 0.0000, 0.0000,


206.5572, 96.1712


0.0000


 186.8827,  
251.4066, 124.4927


 16.9733, 30.0890,  
4.9132


 16.9733, 30.0890,  
4.9132


 16.9732, 30.0899,  
4.9133

 17.8616, 30.5361,  
5.4837

 18.9593, 31.0804,  
6.5145

 20.3070, 31.7395,  
8.1901

 21.9253, 32.5222,  
10.5936

 23.8319, 33.4362,  
13.7959

■ 26.0432, 34.4885,  
17.8595

■ 28.5736, 35.6853,  
22.8407

■ 31.4371, 37.0328,  
28.7909

■ 34.6462, 38.5363,  
35.7577

# Harmonies

## Analogous

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



24.9484, 30.0890, 2.0123



16.9733, 30.0890, 4.9132



12.9557, 30.0890, 16.3757

# Triad

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



16.9733, 30.0890, 4.9132



22.0845, 30.0890, 129.2110



54.8148, 30.0890, 22.9995

# Complementary

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



16.9733, 30.0890, 4.9132



12.4039, 5.5565, 38.4505

# 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.



53.4759, 30.0890, 57.5207



16.9733, 30.0890, 4.9132



32.5888, 30.0890, 135.5670

# Square

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



16.9733, 30.0890, 4.9132



15.3406, 30.0890, 89.7177



44.5962, 30.0890, 103.7947



47.8883, 30.0890, 7.1098



# Rectangle

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



16.9733, 30.0890, 4.9132



12.2481, 30.0890, 33.1980



44.5962, 30.0890, 103.7947



55.3524, 30.0890, 32.3295

# Sweetspot

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



16.9740, 30.0903, 4.9139



51.5719, 64.6174, 40.8947



20.7925, 16.9748, 2.1811



11.0684, 14.2057, 8.2567



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.



16.9740, 30.0903, 4.9139



30.5595, 54.4714, 8.9034



14.4380, 28.7757, 5.1206



7.7225, 8.5550, 8.0335



12.5459, 22.1649, 3.6170



0.3639, 0.5695, 0.0907



# Inverse Universe

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



12.4039, 5.5565, 38.4505



22.2497, 9.9494, 69.7496



22.8079, 11.0385, 33.5798



7.5346, 7.5082, 9.4705



9.1879, 4.1200, 28.2865



0.2798, 0.1293, 0.6908



# Previews

## White Background



This preview shows how the XYZ color 16.9733, 30.0890, 4.9132 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 16.9733, 30.0890, 4.9132 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

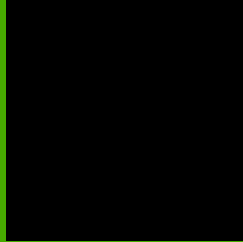
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 16.9733, 30.0890, 4.9132**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.9733, 30.0890, 4.9132.



This preview shows how white text looks on a background with the XYZ color 16.9733, 30.0890,



# 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

16.9733, 30.0890, 4.9132

### Protanopia

26.6838, 29.7104, 4.3283

### Deuteranopia

30.0779, 29.6102, 5.7202



## Tritanopia

24.6145, 29.9907, 43.0195

# Trichromacy



## Original Color

16.9733, 30.0890, 4.9132

## Protanomaly

21.5727, 29.0195, 4.4643

## Deuteranomaly

22.8747, 28.4437, 5.0436

## Tritanomaly

19.7051, 29.0195, 19.0308

# Monochromacy



## Original Color

16.9733, 30.0890, 4.9132

## Achromatopsia

18.1737, 19.1202, 20.8219

## Achromatomaly

16.1657, 21.8846, 10.3933

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.9733, 30.0890, 4.9132 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(71, 170, 0)` looks like.

```
.text, #text, p{  
    color:rgb(71, 170, 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(71, 170, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 170, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 16.9733, 30.0890, 4.9132 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(71, 170, 0) }
```



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

```
.border{ border-color:rgb(71, 170, 0) }
```

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

Here you see how a box with a 4 pixel rgb(71, 170, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 170, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 170, 0);  
box-shadow:4px 4px 4px 4px rgb(71, 170, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 16.9733, 30.0890, 4.9132 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 170, 0) }
```

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

```
.background{ background-color: rgb(71, 170,  
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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