

# Converting Colors

XYZ(11.5153, 22.8473, 3.8030)

Have a look what the booklet for  
XYZ(11.5153, 22.8473, 3.8030)  
contains.

<b>XYZ(11.5164, 22.8470, 3.8029)</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(11.5164, 22.8470,  
3.8029)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0A9900
RGB	10, 153, 0
RGB Percent	4%, 60%, 0%
CMY	0.9608, 0.4000, 1.0000
CMYK	0.93, 0.00, 1.00, 0.40
HSL	116°, 100%, 30%
HSV	116°, 100%, 60%
XYZ	11.5164, 22.8470, 3.8029
YIQ	92.8010, -36.1150, -77.8990

# Conversions

## Conversions Part 2

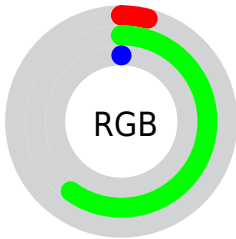
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 153, 143
Decimal	694528
CIELab	54.91, -58.25, 56.89
CIELCh	55, 81.421, 135.676
Yxy	22.8470, 0.3017, 0.5986
Android (android.graphics.Color)	4278884608 (0xFF0A9900)
YUV	92.8010, -45.7509, -72.6165
Hunter-Lab	47.7985, -40.6403, 28.7418

# Details

The XYZ color **11.5164, 22.8470, 3.8029** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **17.0803, 8.1412, 30.8094**, and the grayscale version is **10.4681, 11.0132, 11.9934**.

A 20% lighter version of the original color is **28.3196, 48.3184, 13.6281**, and **4.5572, 9.1143, 1.5191** is the 20% darker color. If you saturate the color by 10%, you get **11.5167, 22.8479, 3.8031**, and if you desaturate by 10%, it is **11.8640, 23.0167, 4.2810**.

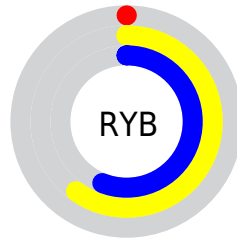
# Distribution



Red (4%)

Green (60%)

Blue (0%)



Red (0%)

Yellow (60%)

Blue (56%)

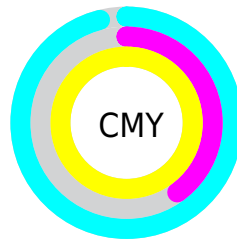


Cyan (93%)

Magenta (0%)

Yellow (100%)

Black (40%)



Cyan (96%)

Magenta (40%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 11.5164, 22.8470, 3.8029 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 11.5164, 22.8470, 3.8029 by changing the saturation by 10% instead.



■ 11.5164, 22.8470,  
3.8029

■ 11.5164, 22.8470,  
3.8029

195.0129,  
266.9382, 146.0087

■ 6.4851, 14.4806,  
1.5179

■ 28.2358, 48.1420,  
13.5526

■ 3.1857, 8.4557,  
0.2312

■ 40.6546, 65.8393,  
21.8543

■ 1.2527, 4.3879,  
0.0000

■ 56.2667, 87.4158,  
32.9986

■ 0.1474, 1.8928,  
0.0000

■ 75.4373, 113.2557,  
47.4041


■ 0.0000, 0.5441,  
0.0000


■ 98.5319, 143.7435,  
65.4894


■ 0.0000, 0.0000,  
0.0000


■ 125.9158,


179.2636, 87.6729


 157.9543,  
220.2004, 114.3731


 11.5164, 22.8470,  
3.8029


 11.5164, 22.8470,  
3.8029


 11.5167, 22.8479,  
3.8031

 11.8640, 23.0167,  
4.2810

 12.4557, 23.3039,  
5.1113

 13.3462, 23.7342,  
6.4534

 14.5686, 24.3232,  
8.3719

 16.1510, 25.0842,  
10.9218

■ 18.1190, 26.0292,  
14.1516

■ 20.4955, 27.1693,  
18.1051

■ 23.3019, 28.5146,  
22.8227

■ 26.5579, 30.0743,  
28.3414

# Harmonies

## Analogous

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



17.3560, 22.8470, 1.1494



11.5164, 22.8470, 3.8029



8.8678, 22.8470, 14.4952

# Triad

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



11.5164, 22.8470, 3.8029



17.6987, 22.8470, 110.7824



43.0745, 22.8470, 13.7196

# Complementary

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



11.5164, 22.8470, 3.8029



17.0803, 8.1412, 30.8094

# 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.



43.2420, 22.8470, 39.3096



11.5164, 22.8470, 3.8029



26.7496, 22.8470, 109.9633

# Square

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



11.5164, 22.8470, 3.8029



11.7070, 22.8470, 80.0586



36.6458, 22.8470, 78.2656



36.2372, 22.8470, 3.5708



# Rectangle

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



11.5164, 22.8470, 3.8029



8.6200, 22.8470, 30.1223



36.6458, 22.8470, 78.2656



43.9653, 22.8470, 20.2781

# Sweetspot

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



11.5169, 22.8480, 3.8034



36.4269, 48.5225, 31.9602



22.9304, 26.3586, 3.8795



7.6658, 10.5331, 6.4272



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

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



11.5169, 22.8480, 3.8034



20.5662, 40.8863, 6.8079



12.3843, 23.1805, 9.0235



6.1677, 6.9439, 6.6211



9.5293, 18.8884, 3.1436



0.1512, 0.2869, 0.0474



# Inverse Universe

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



17.0803, 8.1412, 30.8094



30.5261, 14.5473, 55.1710



14.8459, 7.4562, 9.6108



6.4214, 6.3031, 7.8072



14.1267, 6.7336, 25.4629

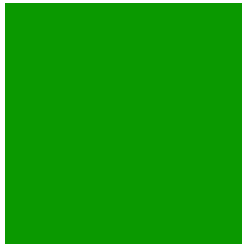


0.2215, 0.1060, 0.3812



# Previews

## White Background



This preview shows how the XYZ color 11.5164, 22.8470, 3.8029 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

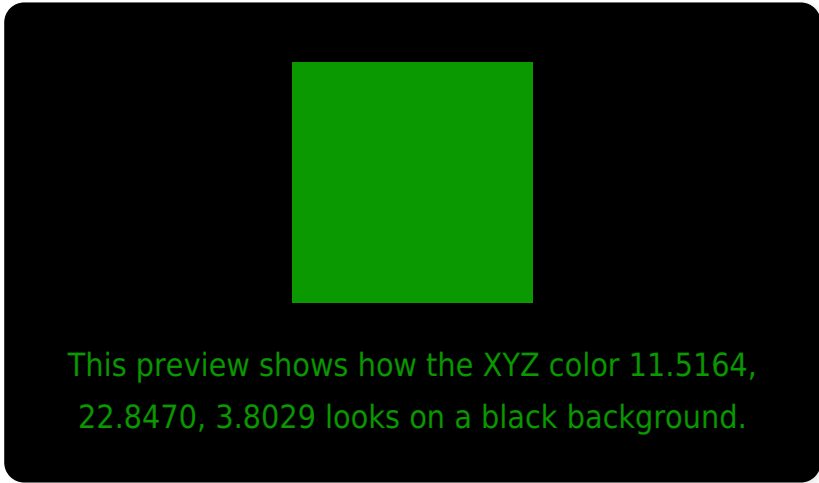
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

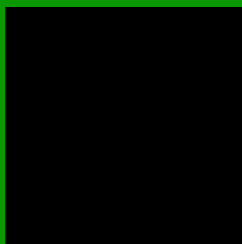
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 11.5164, 22.8470, 3.8029**

## **Background**



This preview shows how black text looks on a background with the XYZ color 11.5164, 22.8470, 3.8029.



This preview shows how white text looks on a background with the XYZ color 11.5164, 22.8470,



# 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

11.5164, 22.8470, 3.8029

### Protanopia

20.1489, 22.4356, 3.2686

### Deuteranopia

22.7920, 22.4176, 4.5646



## Tritanopia

17.6857, 22.8029, 34.0411

# Trichromacy



## Original Color

11.5164, 22.8470, 3.8029



## Protanomaly

14.1624, 21.0066, 3.3082



## Deuteranomaly

14.9837, 20.5702, 3.8902



## Tritanomaly

13.5657, 21.9975, 15.0862

# Monochromacy



## Original Color

11.5164, 22.8470, 3.8029



## Achromatopsia

10.4043, 10.9462, 11.9204



## Achromatomaly

8.9700, 13.6340, 6.2965

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 11.5164, 22.8470, 3.8029 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(10, 153, 0)` looks like.

```
.text, #text, p{  
    color:rgb(10, 153, 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(10, 153, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 153, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 11.5164, 22.8470, 3.8029 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(10, 153, 0) }
```



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

```
.border{ border-color:rgb(10, 153, 0) }
```

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

Here you see how a box with a 4 pixel rgb(10, 153, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 153, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 153, 0);  
box-shadow:4px 4px 4px 4px rgb(10, 153, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 11.5164, 22.8470, 3.8029 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 153, 0) }
```

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

```
.background{ background-color: rgb(10, 153,  
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](#).

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