

# Converting Colors

XYZ(13.4672, 22.2960, 1.6448)

Have a look what the booklet for  
XYZ(13.4672, 22.2960, 1.6448)  
contains.

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# Color

**XYZ(13.8462, 22.3968,  
3.5932)**

# Conversions

## Conversions Part 1

Format	Color
Hex	539200
RGB	83, 146, 0
RGB Percent	33%, 57%, 0%
CMY	0.6745, 0.4274, 1.0000
CMYK	0.43, 0.00, 1.00, 0.43
HSL	86°, 100%, 29%
HSV	86°, 100%, 57%
XYZ	13.8462, 22.3968, 3.5932
YIQ	110.5190, 9.3180, -58.7620

# Conversions

## Conversions Part 2

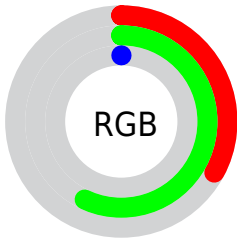
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 146, 63
Decimal	5476864
CIELab	54.45, -40.56, 57.31
CIELCh	54, 70.206, 125.287
Yxy	22.3968, 0.3476, 0.5622
Android (android.graphics.Color)	4283666944 (0xFF539200)
YUV	110.5190, -54.4859, -24.1342
Hunter-Lab	47.3253, -30.5945, 28.6260

# Details

The XYZ color **13.8462, 22.3968, 3.5932** is a dark color, and the websafe version is hex **669900**. A complement of this color would be **7.2394, 3.1328, 27.4186**, and the grayscale version is **15.1217, 15.9092, 17.3251**.

A 20% lighter version of the original color is **32.3759, 47.2272, 13.0396**, and **4.4689, 8.3786, 1.3817** is the 20% darker color. If you saturate the color by 10%, you get **13.8463, 22.3976, 3.5934**, and if you desaturate by 10%, it is **14.5116, 22.7309, 4.0602**.

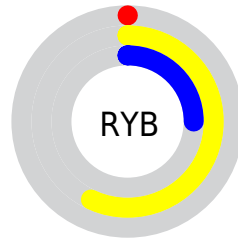
# Distribution



Red (33%)

Green (57%)

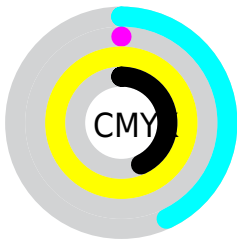
Blue (0%)



Red (0%)

Yellow (57%)

Blue (25%)

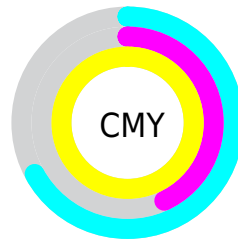


Cyan (43%)

Magenta (0%)

Yellow (100%)

Black (43%)



Cyan (67%)

Magenta (43%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.8462, 22.3968, 3.5932 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 13.8462, 22.3968, 3.5932 by changing the saturation by 10% instead.



■ 13.8462, 22.3968,  
3.5932

■ 13.8462, 22.3968,  
3.5932

209.8017,  
264.6115, 143.5904

■ 8.0948, 14.1488,  
1.4049

■ 32.4044, 47.4010,  
13.0601

■ 4.2080, 8.2242,  
0.1456

■ 45.9419, 64.9258,  
21.1759

■ 1.8204, 4.2387,  
0.0000

■ 62.8055, 86.3118,  
32.1045

■ 0.5299, 1.8080,  
0.0000

■ 83.3605, 111.9432,  
46.2646


■ 0.0000, 0.4921,  
0.0000


■ 107.9722,  
142.2045, 64.0747


■ 0.0000, 0.0000,  
0.0000


■ 137.0061,


177.4801, 85.9534


 170.8275,  
218.1543, 112.3191


 13.8462, 22.3968,  
3.5932


 13.8462, 22.3968,  
3.5932


 13.8463, 22.3976,  
3.5934

 14.5116, 22.7309,  
4.0602

 15.2858, 23.1137,  
4.8318

 16.1989, 23.5583,  
6.0577

 17.2627, 24.0693,  
7.7940

 18.4875, 24.6512,  
10.0891

■ 19.8826, 25.3077,  
12.9854

■ 21.4563, 26.0424,  
16.5214

■ 23.2163, 26.8583,  
20.7324

■ 25.1700, 27.7587,  
25.6510

# Harmonies

## Analogous

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



19.9556, 22.3968, 1.8645



13.8462, 22.3968, 3.5932



10.4941, 22.3968, 10.6353

# Triad

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



13.8462, 22.3968, 3.5932



15.6919, 22.3968, 86.5035



39.6352, 22.3968, 20.6932

# Complementary

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



13.8462, 22.3968, 3.5932



7.2394, 3.1328, 27.4186

# 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.



37.7155, 22.3968, 46.6818



13.8462, 22.3968, 3.5932



22.6774, 22.3968, 95.3803

# Square

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



13.8462, 22.3968, 3.5932



11.3664, 22.3968, 57.8803



31.0074, 22.3968, 77.7524



35.7580, 22.3968, 7.2067



# Rectangle

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



13.8462, 22.3968, 3.5932



9.7022, 22.3968, 21.0745



31.0074, 22.3968, 77.7524



39.6547, 22.3968, 28.0281

# Sweetspot

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



13.8467, 22.3978, 3.5937



37.6698, 45.8559, 28.7278



13.5149, 9.4318, 1.1085



8.1420, 10.0902, 5.8469



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.



13.8467, 22.3978, 3.5937



24.2287, 39.4086, 6.3296



10.4335, 20.6382, 3.4340



6.0261, 6.6213, 6.2009



12.2100, 19.7224, 3.1633



0.1833, 0.2588, 0.0403



# Inverse Universe

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



7.2394, 3.1328, 27.4186



12.5833, 5.4296, 48.3584



14.9942, 7.1306, 27.7815



5.7227, 5.7480, 7.2776



6.3946, 2.7691, 24.1285



0.1110, 0.0508, 0.2969



# Previews

## White Background



This preview shows how the XYZ color 13.8462, 22.3968, 3.5932 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

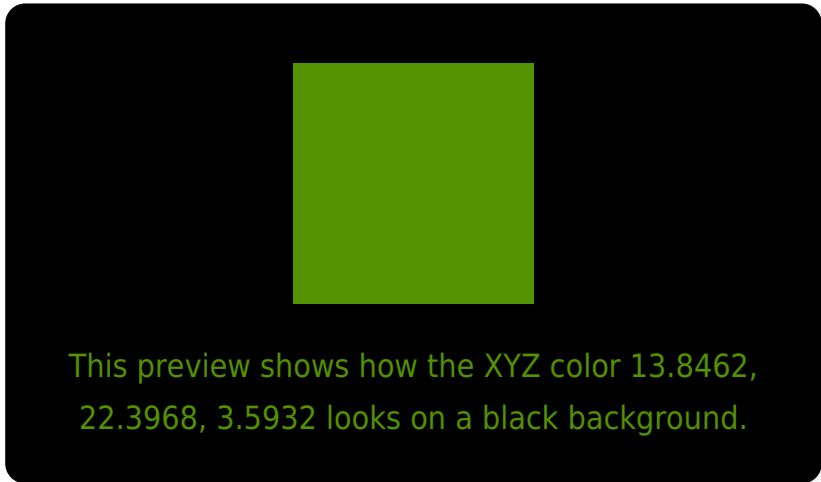
Any Text WCAG AA × Fail

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

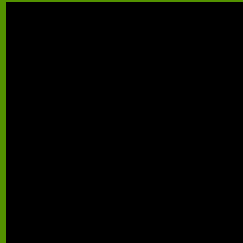
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 13.8462, 22.3968, 3.5932**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.8462, 22.3968, 3.5932.



This preview shows how white text looks on a background with the XYZ color 13.8462, 22.3968,



# 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

13.8462, 22.3968, 3.5932

### Protanopia

19.8367, 22.0763, 3.2156

### Deuteranopia

22.4090, 22.0412, 4.2357



## Tritanopia

19.3261, 22.4242, 30.9135

# Trichromacy



## Original Color

13.8462, 22.3968, 3.5932

## Protanomaly

16.9725, 21.8193, 3.3170

## Deuteranomaly

18.0570, 21.3446, 3.7405

## Tritanomaly

16.0146, 21.9440, 13.9812

# Monochromacy



## Original Color

13.8462, 22.3968, 3.5932

## Achromatopsia

15.1092, 15.8961, 17.3108

## Achromatomaly

13.7118, 17.6369, 8.6428

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.8462, 22.3968, 3.5932 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(83, 146, 0)` looks like.

```
.text, #text, p{  
    color:rgb(83, 146, 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(83, 146, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 146, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 13.8462, 22.3968, 3.5932 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(83, 146, 0) }
```



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

```
.border{ border-color:rgb(83, 146, 0) }
```

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

Here you see how a box with a 4 pixel rgb(83, 146, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 146, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 146, 0);  
box-shadow:4px 4px 4px 4px rgb(83, 146, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 13.8462, 22.3968, 3.5932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 146, 0) }
```

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

```
.background{ background-color: rgb(83, 146,  
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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