

# Converting Colors

XYZ(24.1140, 35.0859, 5.5013)

Have a look what the booklet for  
XYZ(24.1140, 35.0859, 5.5013)  
contains.

<b>XYZ(24.2321, 35.2491, 5.5266)</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(24.2321, 35.2491,  
5.5266)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80AF00
RGB	128, 175, 0
RGB Percent	50%, 69%, 0%
CMY	0.4980, 0.3137, 0.9999
CMYK	0.27, 0.00, 1.00, 0.31
HSL	76°, 100%, 34%
HSV	76°, 100%, 69%
XYZ	24.2321, 35.2491, 5.5266
YIQ	140.9970, 28.1630, -64.3890

# Conversions

## Conversions Part 2

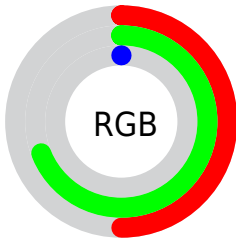
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 175, 47
Decimal	8433408
CIELab	65.94, -36.15, 67.23
CIELCh	66, 76.334, 118.270
Yxy	35.2491, 0.3728, 0.5422
Android (android.graphics.Color)	4286623488 (0xFF80AF00)
YUV	140.9970, -69.5115, -11.3984
Hunter-Lab	59.3710, -31.0449, 36.0406

# Details

The XYZ color **24.2321, 35.2491, 5.5266** is a dark color, and the websafe version is hex **99CC33**. A complement of this color would be **8.9117, 3.7005, 40.8040**, and the grayscale version is **25.5743, 26.9061, 29.3008**.

A 20% lighter version of the original color is **49.8880, 67.9879, 17.3311**, and **9.6320, 15.2968, 2.4449** is the 20% darker color. If you saturate the color by 10%, you get **24.2321, 35.2503, 5.5268**, and if you desaturate by 10%, it is **25.0617, 35.6658, 6.1151**.

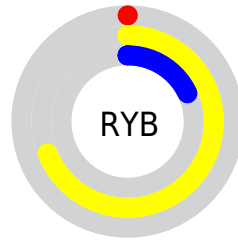
# Distribution



Red (50%)

Green (69%)

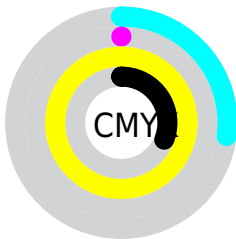
Blue (0%)



Red (0%)

Yellow (69%)

Blue (18%)

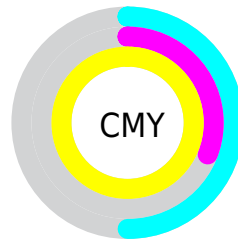


Cyan (27%)

Magenta (0%)

Yellow (100%)

Black (31%)



Cyan (50%)

Magenta (31%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.2321, 35.2491, 5.5266 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 24.2321, 35.2491, 5.5266 by changing the saturation by 10% instead.





 24.2321, 35.2491,  
5.5266


 24.2321, 35.2491,  
5.5266


266.4106,  
325.6665, 163.9251


 15.6316, 23.8548,  
2.4953

 49.8606, 67.8715,  
17.4005


 9.3530, 15.2260,  
0.8377


 67.6193, 89.8684,  
27.0802

 5.0311, 8.9781,  
0.0000


 89.1614, 116.1683,  
39.8131

 2.3005, 4.7269,  
0.0000

 114.8522,  
147.1556, 56.0178

 0.7949, 2.0879,  
0.0000

 145.0572,  
183.2146, 76.1128

 0.0000, 0.6578,  
0.0000

 180.1417,

 0.0000, 0.0000,

224.7299, 100.5167

0.0000

220.4710,  
272.0857, 129.6479

■ 24.2321, 35.2491,  
5.5266

■ 24.2321, 35.2491,  
5.5266

■ 24.2321, 35.2503,  
5.5268

■ 25.0617, 35.6658,  
6.1151

■ 26.0169, 36.1353,  
7.1951

■ 27.1352, 36.6739,  
8.9590

■ 28.4342, 37.2888,  
11.4963

■ 29.9286, 37.9857,  
14.8830

■ 31.6316, 38.7702,  
19.1861

■ 33.5549, 39.6468,  
24.4658

■ 35.7094, 40.6200,  
30.7772

■ 38.1053, 41.6940,  
38.1713

# Harmonies

## Analogous

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



34.1632, 35.2491, 3.7344



24.2321, 35.2491, 5.5266



18.2157, 35.2491, 14.0789

# Triad

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



24.2321, 35.2491, 5.5266



23.3285, 35.2491, 119.3336



60.2436, 35.2491, 40.2890

# Complementary

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



24.2321, 35.2491, 5.5266



8.9117, 3.7005, 40.8040

# 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.



55.5830, 35.2491, 81.2751



24.2321, 35.2491, 5.5266



32.8518, 35.2491, 140.1901

# Square

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



24.2321, 35.2491, 5.5266



17.7824, 35.2491, 76.0286



44.8806, 35.2491, 123.3789



56.5070, 35.2491, 15.8123



# Rectangle

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



24.2321, 35.2491, 5.5266



16.4178, 35.2491, 27.0714



44.8806, 35.2491, 123.3789



59.5899, 35.2491, 52.4676

# Sweetspot

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



24.2329, 35.2507, 5.5274



59.9005, 70.9153, 43.2704



18.6839, 11.1220, 1.1625



12.9883, 15.6138, 8.7093



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



24.2329, 35.2507, 5.5274



43.1788, 63.0165, 9.8876



16.2392, 31.1298, 5.1533



8.4496, 9.2204, 8.5477



17.4133, 25.2740, 3.9606



0.5327, 0.7280, 0.1124



# Inverse Universe

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



8.9117, 3.7005, 40.8040



15.7804, 6.5342, 73.0664



17.5976, 8.1783, 41.2105



7.7732, 7.8574, 10.0596



6.4325, 2.6760, 29.2220



0.2313, 0.1014, 0.8154



# Previews

## White Background



This preview shows how the XYZ color 24.2321, 35.2491, 5.5266 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 24.2321, 35.2491, 5.5266 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 24.2321, 35.2491, 5.5266**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.2321, 35.2491, 5.5266.



This preview shows how white text looks on a background with the XYZ color 24.2321, 35.2491,



# 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

24.2321, 35.2491, 5.5266

### Protanopia

31.3932, 34.8449, 5.0711

### Deuteranopia

35.4285, 34.6605, 6.2617



## Tritanopia

32.4353, 35.2583, 46.1703

# Trichromacy



## Original Color

24.2321, 35.2491, 5.5266

## Protanomaly

28.1531, 34.4873, 5.1729

## Deuteranomaly

30.1617, 34.1944, 5.7200

## Tritanomaly

27.2246, 34.2106, 20.4976

# Monochromacy



## Original Color

24.2321, 35.2491, 5.5266

## Achromatopsia

25.3171, 26.6356, 29.0061

## Achromatomaly

23.3900, 28.7549, 13.9903

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.2321, 35.2491, 5.5266 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(128, 175, 0)` looks like.

```
.text, #text, p{  
    color:rgb(128, 175, 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(128, 175, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 175, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 24.2321, 35.2491, 5.5266 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(128, 175, 0) }
```



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

```
.border{ border-color:rgb(128, 175, 0) }
```

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

Here you see how a box with a 4 pixel rgb(128, 175, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 175, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 175, 0);  
box-shadow:4px 4px 4px 4px rgb(128, 175,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.2321, 35.2491, 5.5266 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 175, 0) }
```

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

```
.background{ background-color: rgb(128,  
175, 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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