

# Converting Colors

XYZ(33.8719, 59.4731, 22.7155)

Have a look what the booklet for  
XYZ(33.8719, 59.4731, 22.7155)  
contains.

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# Color

**XYZ(33.9763, 59.6472,  
22.8190)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4BE768
RGB	75, 231, 104
RGB Percent	29%, 91%, 41%
CMY	0.7059, 0.0941, 0.5921
CMYK	0.68, 0.00, 0.55, 0.09
HSL	131°, 76%, 60%
HSV	131°, 68%, 91%
XYZ	33.9763, 59.6472, 22.8190
YIQ	169.8780, -52.2090, -72.5690

# Conversions

## Conversions Part 2

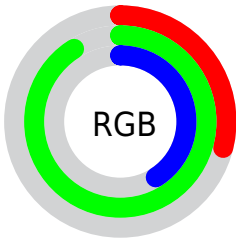
Format	Color
<a href="#">RYB</a>	<a href="#">75, 207, 231</a>
Decimal	<a href="#">4974440</a>
CIELab	<a href="#">81.65, -66.03, 49.56</a>
CIELCh	<a href="#">82, 82.562, 143.113</a>
Yxy	<a href="#">59.6472, 0.2918, 0.5122</a>
Android (android.graphics.Color)	<a href="#">4283164520 (0xFF4BE768)</a>
YUV	<a href="#">169.8780, -32.4779, -83.2080</a>
Hunter-Lab	<a href="#">77.2316, -56.6283, 36.5442</a>

# Details

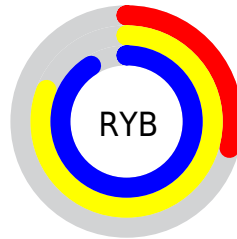
The XYZ color **33.9763, 59.6472, 22.8190** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted spring green. A complement of this color would be **46.1335, 26.2864, 58.5210**, and the grayscale version is **38.3244, 40.3203, 43.9088**.

A 20% lighter version of the original color is **52.9161, 79.6513, 44.9330**, and **15.7336, 30.5111, 8.1920** is the 20% darker color. If you saturate the color by 10%, you get **31.6358, 58.5407, 18.2676**, and if you desaturate by 10%, it is **37.1884, 61.1818, 28.5256**.

# Distribution



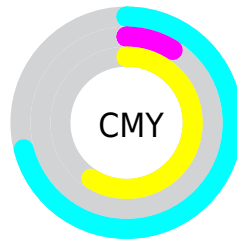
- Red (29%)
- Green (91%)
- Blue (41%)



- Red (29%)
- Yellow (81%)
- Blue (91%)



- Cyan (68%)
- Magenta (0%)
- Yellow (55%)
- Black (9%)



- Cyan (71%)
- Magenta (9%)
- Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.9763, 59.6472, 22.8190 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 33.9763, 59.6472, 22.8190 by changing the saturation by 10% instead.



33.9763, 59.6472,  
22.8190

33.9763, 59.6472,  
22.8190

311.6141,  
423.2961, 279.8857

23.0382, 43.1343,  
14.2559

65.2413, 104.3177,  
49.0154

14.7426, 29.9905,  
8.1581

86.2990, 133.2442,  
67.4857

8.7240, 19.8314,  
4.1070

111.4605,  
167.0772, 90.0955

4.6173, 12.2725,  
1.6842

141.0913,  
206.2014, 117.2633

2.0569, 6.9296,  
0.3499

175.5567,  
251.0009, 149.4077

0.6656, 3.4181,  
0.0000

215.2221,

0.0000, 1.3537,

301.8603, 186.9472

0.0000

260.4528,  
359.1639, 230.3004

■ 0.0000, 0.1822,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 33.9763, 59.6472,  
22.8190

■ 33.9763, 59.6472,  
22.8190

■ 31.6358, 58.5407,  
18.2676

■ 37.1884, 61.1818,  
28.5256

■ 30.0731, 57.8105,  
14.7885


■ 41.3443, 63.1753,  
35.4550


■ 29.1734, 57.4010,  
12.2936


■ 46.5138, 65.6636,  
43.6741

■ 29.0121, 57.3282,  
11.8165


■ 52.7585, 68.6776,  
53.2438

 60.1353, 72.2451,  
64.2214

 68.6968, 76.3923,  
76.6605

 78.4925, 81.1435,  
90.6120

 87.7788, 85.5989,  
106.0408

 87.8671, 85.6342,  
106.5057

# Harmonies

## Analogous

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



44.5792, 59.6472, 10.7441



33.9763, 59.6472, 22.8190



29.6024, 59.6472, 54.1483

# Triad

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



33.9763, 59.6472, 22.8190



52.7855, 59.6472, 213.4836



93.2469, 59.6472, 34.1958

# Complementary

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



33.9763, 59.6472, 22.8190



46.1335, 26.2864, 58.5210

# 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.



96.6841, 59.6472, 77.0907



33.9763, 59.6472, 22.8190



70.8235, 59.6472, 198.4218

# Square

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



33.9763, 59.6472, 22.8190



38.9324, 59.6472, 175.2614



87.7826, 59.6472, 140.8371



79.1692, 59.6472, 14.5801



# Rectangle

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



33.9763, 59.6472, 22.8190



30.0123, 59.6472, 89.1236



87.7826, 59.6472, 140.8371



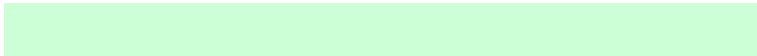
95.7888, 59.6472, 45.5911

# Sweetspot

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



33.9778, 59.6497, 22.8203



72.7333, 89.1859, 76.6526



54.3137, 70.2752, 17.3588



15.0008, 18.8152, 15.5650



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



33.9778, 59.6497, 22.8203



38.7144, 72.8450, 21.0045



39.8815, 62.0111, 53.9088



14.2982, 16.1327, 15.8352



16.2972, 32.1510, 6.7992



1.2358, 2.3884, 0.6681



# Inverse Universe

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



46.1335, 26.2864, 58.5210



54.7880, 28.3999, 67.9682



39.1362, 23.4875, 21.6734



14.8741, 14.5668, 17.5376



23.6103, 11.5783, 27.9064

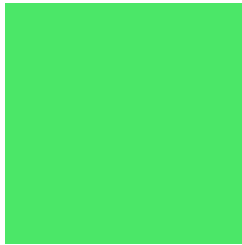


1.7746, 0.8675, 2.2195



# Previews

## White Background



This preview shows how the XYZ color 33.9763, 59.6472, 22.8190 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 33.9763, 59.6472, 22.8190 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

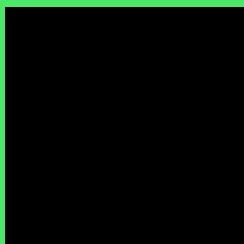
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.9763, 59.6472, 22.8190**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.9763, 59.6472, 22.8190.



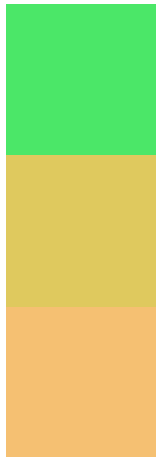
This preview shows how white text looks on a background with the XYZ color 33.9763, 59.6472,



# 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

33.9763, 59.6472, 22.8190

### Protanopia

53.3384, 58.2694, 19.0256

### Deuteranopia

59.5431, 58.3267, 24.0395



## Tritanopia

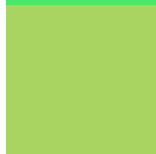
46.7477, 59.2013, 87.5604

# Trichromacy



## Original Color

33.9763, 59.6472, 22.8190



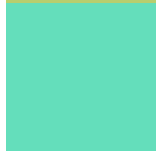
## Protanomaly

42.1103, 56.4038, 20.2229



## Deuteranomaly

44.4142, 55.3357, 23.0918



## Tritanomaly

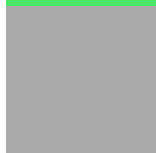
40.3464, 58.5397, 56.1865

# Monochromacy



## Original Color

33.9763, 59.6472, 22.8190



## Achromatopsia

38.2080, 40.1978, 43.7754



## Achromatomaly

34.0296, 44.9255, 34.0721

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.9763, 59.6472, 22.8190 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(75, 231, 104)` looks like.

```
.text, #text, p{  
    color:rgb(75, 231, 104)  
}
```

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(75, 231, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 231, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 33.9763, 59.6472, 22.8190 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(75, 231, 104) }
```



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

```
.border{ border-color:rgb(75, 231, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 231, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 231, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 231, 104);  
box-shadow:4px 4px 4px 4px rgb(75, 231,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.9763, 59.6472, 22.8190 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 231, 104) }
```

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

```
.background{ background-color: rgb(75, 231,  
104) }
```

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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