

# Converting Colors

XYZ(29.9454, 58.2358, 22.2512)

Have a look what the booklet for  
XYZ(29.9454, 58.2358, 22.2512)  
contains.

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# Color

**XYZ(31.5372, 59.2371,  
22.3421)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E966
RGB	0, 233, 102
RGB Percent	0%, 91%, 40%
CMY	0.9999, 0.0863, 0.6000
CMYK	1.00, 0.00, 0.56, 0.09
HSL	146°, 100%, 46%
HSV	146°, 100%, 91%
XYZ	31.5372, 59.2371, 22.3421
YIQ	148.3990, -96.8170, -90.1370

# Conversions

## Conversions Part 2

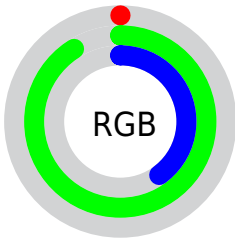
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 162, 233
Decimal	59750
CIELab	81.42, -73.77, 50.00
CIELCh	81, 89.121, 145.869
Yxy	59.2371, 0.2788, 0.5237
Android (android.graphics.Color)	4278249830 (0xFF00E966)
YUV	148.3990, -22.8747, -130.1459
Hunter-Lab	76.9656, -61.5483, 36.6649

# Details

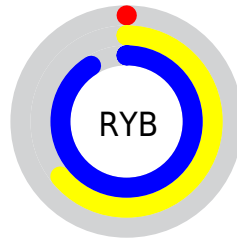
The XYZ color **31.5372, 59.2371, 22.3421** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed spring green. A complement of this color would be **37.7034, 18.9637, 23.1508**, and the grayscale version is **28.4393, 29.9204, 32.5833**.

A 20% lighter version of the original color is **48.1912, 77.2353, 43.8205**, and **16.0797, 31.2724, 8.0944** is the 20% darker color. If you saturate the color by 10%, you get **31.5381, 59.2393, 22.3415**, and if you desaturate by 10%, it is **32.6011, 59.7061, 26.0574**.

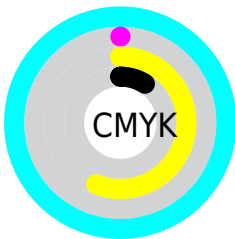
# Distribution



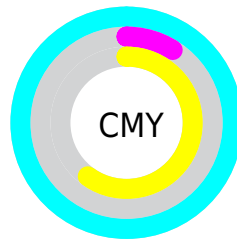
- Red (0%)
- Green (91%)
- Blue (40%)



- Red (0%)
- Yellow (64%)
- Blue (91%)



- Cyan (100%)
- Magenta (0%)
- Yellow (56%)
- Black (9%)




- Cyan (100%)
- Magenta (9%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.5372, 59.2371, 22.3421 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 31.5372, 59.2371, 22.3421 by changing the saturation by 10% instead.





 31.5372, 59.2371,  
22.3421


 31.5372, 59.2371,  
22.3421


300.7885,  
421.7800, 277.3392


 21.1621, 42.8040,  
13.9078


 61.4550, 103.7222,  
48.2202


 13.3557, 29.7314,  
7.9185


 81.7283, 132.5430,  
66.5010


 7.7526, 19.6348,  
3.9558


 106.0318,  
166.2618, 88.9011

 3.9875, 12.1298,  
1.6011

 134.7308,  
205.2630, 115.8390

 1.6951, 6.8322,  
0.2916

 168.1906,  
249.9311, 147.7332

 0.4532, 3.3574,  
0.0000

206.7765,

 0.0000, 1.3210,

300.6503, 185.0023

0.0000

250.8541,  
357.8052, 228.0648

■ 0.0000, 0.1574,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 31.5372, 59.2371,  
22.3421

■ 31.5372, 59.2371,  
22.3421


■ 31.5381, 59.2393,  
22.3415


■ 32.6011, 59.7061,  
26.0574


■ 34.2044, 60.4392,  
30.3562


■ 36.4902, 61.5112,  
35.2685


■ 39.5427, 62.9651,  
40.8192

 43.4333, 64.8373,  
47.0314

 48.2246, 67.1596,  
53.9271

 53.9731, 69.9608,  
61.5270

 60.7303, 73.2671,  
69.8509

 68.5443, 77.1028,  
78.9178

# Harmonies

## Analogous

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



42.0655, 59.2371, 9.2052



31.5372, 59.2371, 22.3421



27.5828, 59.2371, 57.3832

# Triad

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



31.5372, 59.2371, 22.3421



53.7602, 59.2371, 230.6478



95.1106, 59.2371, 29.2737

# Complementary

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



31.5372, 59.2371, 22.3421



37.7034, 18.9637, 23.1508

# 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.



100.1607, 59.2371, 72.1803



31.5372, 59.2371, 22.3421



73.4375, 59.2371, 207.9978

# Square

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



31.5372, 59.2371, 22.3421



38.4895, 59.2371, 192.2704



91.4950, 59.2371, 140.9534



78.9069, 59.2371, 11.3760



# Rectangle

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



31.5372, 59.2371, 22.3421



28.3815, 59.2371, 96.8428



91.4950, 59.2371, 140.9534



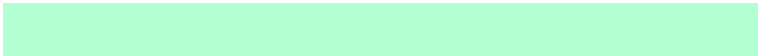
98.3031, 59.2371, 40.3016

# Sweetspot

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



31.5386, 59.2395, 22.3435



66.1171, 85.7971, 75.3548



38.6623, 63.1889, 10.1594



13.4821, 18.0374, 15.2615



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.



31.5386, 59.2395, 22.3435



38.6638, 72.6815, 27.2111



41.7260, 63.3144, 75.9892



15.1422, 16.9717, 17.4316



17.9546, 33.6363, 12.9918



1.4574, 2.6603, 1.2707



# Inverse Universe

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



37.7034, 18.9637, 23.1508



46.2264, 23.2546, 28.1881



33.6959, 17.3607, 2.0476



15.4202, 15.1959, 17.4979



21.4560, 10.7851, 13.4684

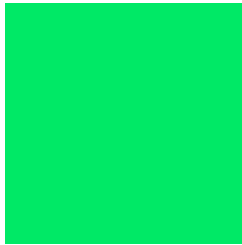


1.7330, 0.8662, 1.3114



# Previews

## White Background



This preview shows how the XYZ color 31.5372, 59.2371, 22.3421 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 31.5372, 59.2371, 22.3421 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 31.5372, 59.2371, 22.3421**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.5372, 59.2371, 22.3421.



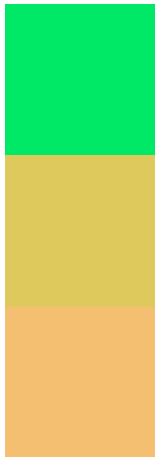
This preview shows how white text looks on a background with the XYZ color 31.5372, 59.2371,



# 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

31.5372, 59.2371, 22.3421

### Protanopia

52.9426, 58.0756, 18.5445

### Deuteranopia

58.9197, 57.6870, 23.6521



## Tritanopia

44.9320, 59.0016, 89.1410

# Trichromacy



## Original Color

31.5372, 59.2371, 22.3421



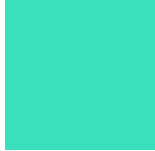
## Protanomaly

36.8901, 54.0957, 19.5635



## Deuteranomaly

38.3492, 52.2153, 22.5253



## Tritanomaly

37.4777, 57.8417, 56.7662

# Monochromacy



## Original Color

31.5372, 59.2371, 22.3421



## Achromatopsia

28.1479, 29.6138, 32.2495



## Achromatomaly

24.8329, 36.2586, 27.1625

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.5372, 59.2371, 22.3421 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(0, 233, 102)` looks like.

```
.text, #text, p{  
    color:rgb(0, 233, 102)  
}
```

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(0, 233, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 233, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 31.5372, 59.2371, 22.3421 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(0, 233, 102) }
```



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

```
.border{ border-color:rgb(0, 233, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 233, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 233, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 233, 102);  
box-shadow:4px 4px 4px 4px rgb(0, 233,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.5372, 59.2371, 22.3421 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 233, 102) }
```

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

```
.background{ background-color: rgb(0, 233,  
102) }
```

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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