

# Converting Colors

XYZ(32.8031, 63.3587, 10.8816)

Have a look what the booklet for  
XYZ(32.8031, 63.3587, 10.8816)  
contains.

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# Color

**XYZ(32.6489, 63.0793,  
10.8355)**

# Conversions

## Conversions Part 1

Format	Color
Hex	34F00D
RGB	52, 240, 13
RGB Percent	20%, 94%, 5%
CMY	0.7961, 0.0588, 0.9489
CMYK	0.78, 0.00, 0.95, 0.06
HSL	110°, 90%, 50%
HSV	110°, 95%, 94%
XYZ	32.6489, 63.0793, 10.8355
YIQ	157.9100, -39.1810, -110.4530

# Conversions

## Conversions Part 2

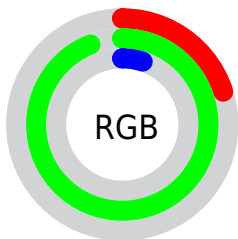
Format	Color
<a href="#">RYB</a>	<a href="#">13, 240, 201</a>
Decimal	<a href="#">3469325</a>
CIELab	<a href="#">83.48, -78.64, 78.84</a>
CIELCh	<a href="#">83, 111.357, 134.926</a>
Yxy	<a href="#">63.0793, 0.3064, 0.5919</a>
Android (android.graphics.Color)	<a href="#">4281659405 (0xFF34F00D)</a>
YUV	<a href="#">157.9100, -71.4406, -92.8831</a>
Hunter-Lab	<a href="#">79.4225, -65.6118, 47.5069</a>

# Details


The XYZ color **32.6489, 63.0793, 10.8355** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark saturated green. A complement of this color would be **39.9694, 19.0022, 84.0026**, and the grayscale version is **32.7879, 34.4954, 37.5655**.

A 20% lighter version of the original color is **47.0518, 77.1180, 22.5306**, and **16.7279, 33.4559, 5.5760** is the 20% darker color. If you saturate the color by 10%, you get **32.0842, 62.7985, 10.4303**, and if you desaturate by 10%, it is **34.1593, 63.8296, 12.2726**.

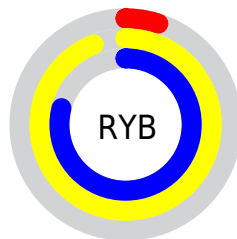
# Distribution



 Red (20%)

 Green (94%)

 Blue (5%)




 Red (5%)

 Yellow (94%)

 Blue (79%)

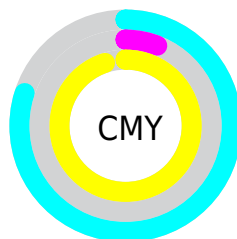



 Cyan (78%)

 Magenta (0%)

 Yellow (95%)

 Black (6%)



 Cyan (80%)

 Magenta (6%)


 Yellow (95%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.6489, 63.0793, 10.8355 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 32.6489, 63.0793, 10.8355 by changing the saturation by 10% instead.





 32.6489, 63.0793,  
10.8355


 32.6489, 63.0793,  
10.8355


305.7577,  
435.8572, 207.2322


 22.0156, 45.9054,  
5.8436


 63.1853, 109.2839,  
27.9876

 13.9850, 32.1711,  
2.6829


 83.8192, 139.0834,  
40.9848


 8.1919, 21.4923,  
0.9348


 108.5172,  
173.8601, 57.4874

 4.2708, 13.4843,  
0.0000

 137.6447,  
213.9986, 77.9142

 1.8564, 7.7629,  
0.0000

 171.5672,  
259.8831, 102.6835

 0.5513, 3.9436,  
0.0000

 210.6500,

 0.0000, 1.6421,

311.8982, 132.2139

0.0000

255.2584,  
370.4281, 166.9240

■ 0.0000, 0.3857,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 32.6489, 63.0793,  
10.8355

■ 32.6489, 63.0793,  
10.8355

■ 32.0842, 62.7985,  
10.4303

■ 34.1593, 63.8296,  
12.2726

■ 36.3941, 64.9229,  
15.0322

■ 39.4384, 66.4002,  
19.3384

■ 43.3639, 68.2943,  
25.3731

■ 48.2336, 70.6345,  
33.2931

■ 54.1049, 73.4472,  
43.2373

■ 61.0305, 76.7570,  
55.3320

■ 69.0591, 80.5864,  
69.6928

■ 78.2367, 84.9567,  
86.4272

# Harmonies

## Analogous

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



48.7108, 63.0793, 3.5553



32.6489, 63.0793, 10.8355



25.2174, 63.0793, 39.4369

# Triad

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



32.6489, 63.0793, 10.8355



48.6096, 63.0793, 295.7434



117.3600, 63.0793, 39.6675

# Complementary

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



32.6489, 63.0793, 10.8355



39.9694, 19.0022, 84.0026

# 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.



117.3113, 63.0793, 109.6758



32.6489, 63.0793, 10.8355



72.8086, 63.0793, 295.9797

# Square

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



32.6489, 63.0793, 10.8355



32.5922, 63.0793, 213.0812



99.3595, 63.0793, 213.6003



99.4788, 63.0793, 10.9069



# Rectangle

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



32.6489, 63.0793, 10.8355



24.4206, 63.0793, 80.8220



99.3595, 63.0793, 213.6003



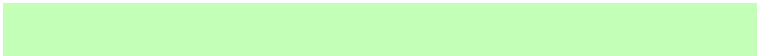
119.5700, 63.0793, 57.8240

# Sweetspot

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



32.6504, 63.0819, 10.8369



67.0982, 86.6808, 58.3225



56.2933, 59.1228, 8.8266



13.6333, 18.2051, 11.2137



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.



32.6504, 63.0819, 10.8369



36.7894, 72.0507, 11.9682



32.9637, 63.0629, 19.0094



15.8188, 17.7868, 16.7492



17.6385, 34.4145, 5.7130



1.5396, 2.9002, 0.4787



# Inverse Universe

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



39.9694, 19.0022, 84.0026



44.9762, 21.1010, 96.3101



43.1608, 21.6466, 39.0120



16.1724, 15.8861, 19.9356



21.5730, 10.1267, 45.9455

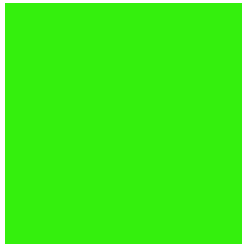


1.8642, 0.8783, 3.8255



# Previews

## White Background



This preview shows how the XYZ color 32.6489, 63.0793, 10.8355 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

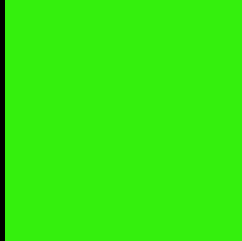
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.6489, 63.0793, 10.8355 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

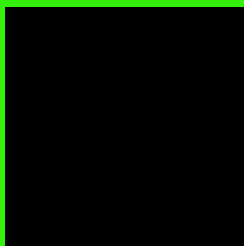
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 32.6489, 63.0793, 10.8355**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.6489, 63.0793, 10.8355.



This preview shows how white text looks on a background with the XYZ color 32.6489, 63.0793,



# 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

32.6489, 63.0793, 10.8355

### Protanopia

55.5915, 61.7815, 8.9950

### Deuteranopia

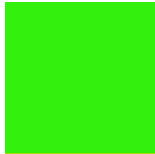
62.4651, 61.3339, 16.3309



## **Tritanopia**

48.8204, 62.5057, 92.7108

# Trichromacy



## Original Color

32.6489, 63.0793, 10.8355



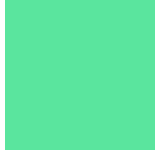
## Protanomaly

41.2953, 58.8895, 9.3339



## Deuteranomaly

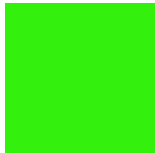
43.3133, 57.1962, 12.4985



## Tritanomaly

38.4073, 60.6809, 42.0361

# Monochromacy



## Original Color

32.6489, 63.0793, 10.8355



## Achromatopsia

32.4990, 34.1914, 37.2345



## Achromatomaly

28.1408, 40.9083, 19.7775

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.6489, 63.0793, 10.8355 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(52, 240, 13)` looks like.

```
.text, #text, p{  
    color:rgb(52, 240, 13)  
}
```

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(52, 240, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 240, 13) }
```

## Border

The CSS property to change the border of an element to XYZ 32.6489, 63.0793, 10.8355 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(52, 240, 13) }
```



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

```
.border{ border-color:rgb(52, 240, 13) }
```

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

Here you see how a box with a 4 pixel `rgb(52, 240, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 240, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(52, 240, 13);  
box-shadow:4px 4px 4px 4px rgb(52, 240,  
13) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.6489, 63.0793, 10.8355 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 240, 13) }
```

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

```
.background{ background-color: rgb(52, 240,  
13) }
```

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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