

# Converting Colors

XYZ(16.5360, 32.1582, 5.3356)

Have a look what the booklet for  
XYZ(16.5360, 32.1582, 5.3356)  
contains.

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# Color

**XYZ(16.5476, 32.1641,  
5.3362)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21B200
RGB	33, 178, 0
RGB Percent	13%, 70%, 0%
CMY	0.8706, 0.3019, 0.9999
CMYK	0.81, 0.00, 1.00, 0.30
HSL	109°, 100%, 35%
HSV	109°, 100%, 70%
XYZ	16.5476, 32.1641, 5.3362
YIQ	114.3530, -29.2820, -86.0980

# Conversions

## Conversions Part 2

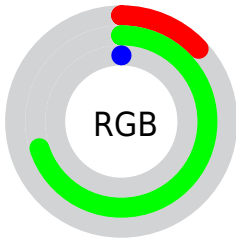
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 178, 145
Decimal	2208256
CIELab	63.48, -63.39, 63.84
CIELCh	63, 89.965, 134.796
Yxy	32.1641, 0.3062, 0.5951
Android (android.graphics.Color)	4280398336 (0xFF21B200)
YUV	114.3530, -56.3760, -71.3466
Hunter-Lab	56.7134, -47.1665, 34.1207

# Details

The XYZ color **16.5476, 32.1641, 5.3362** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **19.7174, 9.2367, 42.8648**, and the grayscale version is **16.2725, 17.1199, 18.6436**.

A 20% lighter version of the original color is **37.0762, 63.0643, 17.0560**, and **7.2077, 14.4153, 2.4026** is the 20% darker color. If you saturate the color by 10%, you get **16.5477, 32.1651, 5.3363**, and if you desaturate by 10%, it is **17.2243, 32.5015, 5.9302**.

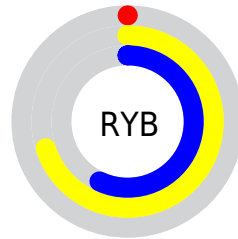
# Distribution



Red (13%)

Green (70%)

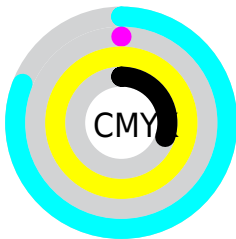
Blue (0%)



Red (0%)

Yellow (70%)

Blue (57%)

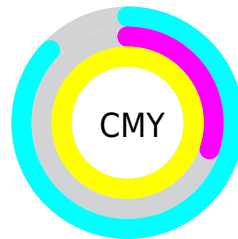


Cyan (81%)

Magenta (0%)

Yellow (100%)

Black (30%)



Cyan (87%)

Magenta (30%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.5476, 32.1641, 5.3362 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 16.5476, 32.1641, 5.3362 by changing the saturation by 10% instead.





 16.5476, 32.1641,  
5.3362


 16.5476, 32.1641,  
5.3362

225.7591,  
311.8661, 162.0862


 10.0058, 21.4869,  
2.3837


 37.0961, 63.0683,  
16.9900


 5.4651, 13.4804,  
0.7775


 51.8335, 84.0640,  
26.5283

 2.5602, 7.7601,  
0.0000


 70.0334, 109.2680,  
39.0989

 0.9257, 3.9419,  
0.0000

 92.0613, 139.0647,  
55.1205

 0.0000, 1.6411,  
0.0000

 118.2825,  
173.8384, 75.0114

 0.0000, 0.3851,  
0.0000

 149.0622,

 0.0000, 0.0000,

213.9737, 99.1903

0.0000

184.7660,  
259.8547, 128.0758

■ 16.5476, 32.1641,  
5.3362

■ 16.5476, 32.1641,  
5.3362

■ 16.5477, 32.1651,  
5.3363

■ 17.2243, 32.5015,  
5.9302

■ 18.2206, 32.9914,  
7.0465

■ 19.5942, 33.6603,  
8.8834

■ 21.3806, 34.5244,  
11.5354

■ 23.6108, 35.5979,  
15.0825

■ 26.3128, 36.8937,  
19.5950

■ 29.5121, 38.4237,  
25.1366

■ 33.2325, 40.1988,  
31.7652

■ 37.4960, 42.2291,  
39.5345

# Harmonies

## Analogous

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



24.8237, 32.1641, 1.7064



16.5476, 32.1641, 5.3362



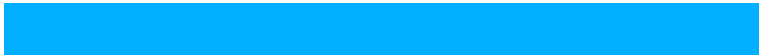
12.7216, 32.1641, 19.8672

# Triad

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



16.5476, 32.1641, 5.3362



24.6795, 32.1641, 152.6597



60.2700, 32.1641, 20.1947

# Complementary

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



16.5476, 32.1641, 5.3362



19.7174, 9.2367, 42.8648

# 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.



60.2001, 32.1641, 56.4049



16.5476, 32.1641, 5.3362



37.1433, 32.1641, 152.9998

# Square

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



16.5476, 32.1641, 5.3362



16.4670, 32.1641, 109.5684



50.8742, 32.1641, 110.3145



51.0450, 32.1641, 5.4361



# Rectangle

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



16.5476, 32.1641, 5.3362



12.3034, 32.1641, 41.1101



50.8742, 32.1641, 110.3145



61.4000, 32.1641, 29.5654

# Sweetspot

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



16.5483, 32.1654, 5.3369



53.1855, 69.5183, 45.0007



28.0945, 28.9326, 4.1044



11.2270, 15.1359, 8.9993



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



16.5483, 32.1654, 5.3369



29.8669, 58.2550, 9.6702



16.5735, 32.1031, 8.7414



8.5311, 9.5633, 9.0488



11.8798, 23.0343, 3.8199



0.4176, 0.7473, 0.1222



# Inverse Universe

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



19.7174, 9.2367, 42.8648



35.5714, 16.6543, 77.7210



22.0377, 10.9364, 20.2204



8.6926, 8.5656, 10.7015



14.1560, 6.6335, 30.6713

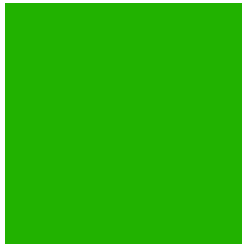


0.4854, 0.2293, 0.9669



# Previews

## White Background



This preview shows how the XYZ color 16.5476, 32.1641, 5.3362 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 16.5476, 32.1641, 5.3362 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

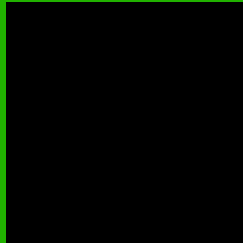
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 16.5476, 32.1641, 5.3362**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.5476, 32.1641, 5.3362.



This preview shows how white text looks on a background with the XYZ color 16.5476, 32.1641,



# 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

16.5476, 32.1641, 5.3362

### Protanopia

28.4045, 31.5531, 4.5933

### Deuteranopia

32.2135, 31.5972, 6.2348



## Tritanopia

24.9001, 31.8704, 47.4871

# Trichromacy



## Original Color

16.5476, 32.1641, 5.3362



## Protanomaly

20.8055, 29.9056, 4.6758



## Deuteranomaly

22.0534, 29.2482, 5.3473



## Tritanomaly

19.4619, 31.0211, 20.8815

# Monochromacy



## Original Color

16.5476, 32.1641, 5.3362



## Achromatopsia

15.9940, 16.8269, 18.3245



## Achromatomaly

13.8946, 20.3037, 9.4900

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.5476, 32.1641, 5.3362 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(33, 178, 0)` looks like.

```
.text, #text, p{  
    color:rgb(33, 178, 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(33, 178, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 178, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 16.5476, 32.1641, 5.3362 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(33, 178, 0) }
```



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

```
.border{ border-color:rgb(33, 178, 0) }
```

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

Here you see how a box with a 4 pixel rgb(33, 178, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 178, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 178, 0);  
box-shadow:4px 4px 4px 4px rgb(33, 178, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 16.5476, 32.1641, 5.3362 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 178, 0) }
```

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

```
.background{ background-color: rgb(33, 178,  
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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