

# Converting Colors

XYZ(16.3220, 32.6439, 5.4408)

Have a look what the booklet for  
XYZ(16.3220, 32.6439, 5.4408)  
contains.

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# Color

**XYZ(16.3213, 32.6425,  
5.4404)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B400
RGB	0, 180, 0
RGB Percent	0%, 71%, 0%
CMY	1.0000, 0.2941, 0.9999
CMYK	1.00, 0.00, 1.00, 0.29
HSL	120°, 100%, 35%
HSV	120°, 100%, 71%
XYZ	16.3213, 32.6425, 5.4404
YIQ	105.6600, -49.5000, -94.1400

# Conversions

## Conversions Part 2

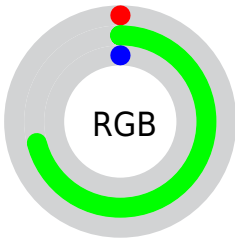
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 180, 180
Decimal	46080
CIELab	63.87, -66.36, 64.04
CIELCh	64, 92.221, 136.016
Yxy	32.6425, 0.3000, 0.6000
Android (android.graphics.Color)	4278236160 (0xFF00B400)
YUV	105.6600, -52.0904, -92.6638
Hunter-Lab	57.1336, -48.9919, 34.3478

# Details

The XYZ color **16.3213, 32.6425, 5.4404** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **27.0605, 12.9987, 44.2581**, and the grayscale version is **13.7558, 14.4721, 15.7601**.

A 20% lighter version of the original color is **36.6257, 63.6868, 17.1999**, and **7.3336, 14.6672, 2.4445** is the 20% darker color. If you saturate the color by 10%, you get **16.3220, 32.6438, 5.4410**, and if you desaturate by 10%, it is **16.6808, 32.8162, 6.0280**.

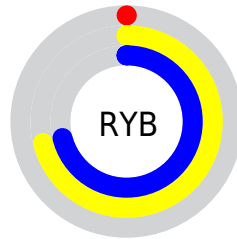
# Distribution



Red (0%)

Green (71%)

Blue (0%)



Red (0%)

Yellow (71%)

Blue (0%)

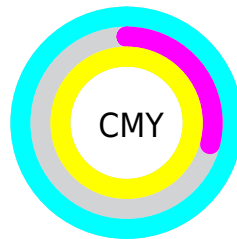


Cyan (100%)

Magenta (0%)

Yellow (100%)

Black (29%)



Cyan (100%)

Magenta (29%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.3213, 32.6425, 5.4404 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 16.3213, 32.6425, 5.4404 by changing the saturation by 10% instead.





 16.3213, 32.6425,  
5.4404


 16.3213, 32.6425,  
5.4404


224.4636,  
314.0357, 163.0962


 9.8441, 21.8527,  
2.4447


 36.7081, 63.8170,  
17.2150


 5.3572, 13.7487,  
0.8106


 51.3483, 84.9705,  
26.8310


 2.4952, 7.9461,  
0.0000


 69.4403, 110.3473,  
39.4908

 0.8928, 4.0605,  
0.0000

 91.3494, 140.3319,  
55.6130

 0.0000, 1.7075,  
0.0000

 117.4409,  
175.3087, 75.6160


 0.0000, 0.4285,  
0.0000


 148.0802,


 0.0000, 0.0000,


215.6619, 99.9186


0.0000


 183.6326,  
261.7762, 128.9391


 16.3213, 32.6425,  
5.4404


 16.3213, 32.6425,  
5.4404


 16.3220, 32.6438,  
5.4410

 16.6808, 32.8162,  
6.0280

 17.3683, 33.1464,  
7.1528

 18.5098, 33.6947,  
9.0200

 20.1650, 34.4898,  
11.7277

 22.3851, 35.5562,  
15.3590

■ 25.2146, 36.9154,  
19.9872

■ 28.6939, 38.5866,  
25.6781

■ 32.8598, 40.5877,  
32.4921

■ 37.7463, 42.9350,  
40.4847

# Harmonies

## Analogous

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



24.6425, 32.6425, 1.6077



16.3213, 32.6425, 5.4404



12.5756, 32.6425, 20.9284

# Triad

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



16.3213, 32.6425, 5.4404



25.3821, 32.6425, 159.6133



61.6911, 32.6425, 19.2569

# Complementary

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



16.3213, 32.6425, 5.4404



27.0605, 12.9987, 44.2581

# 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.



62.0536, 32.6425, 55.7410



16.3213, 32.6425, 5.4404



38.4257, 32.6425, 157.8362

# Square

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



16.3213, 32.6425, 5.4404



16.7321, 32.6425, 115.6555



52.6459, 32.6425, 111.7686



51.7616, 32.6425, 4.9440



# Rectangle

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



16.3213, 32.6425, 5.4404



12.2490, 32.6425, 43.5632



52.6459, 32.6425, 111.7686



63.0136, 32.6425, 28.5715

# Sweetspot

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



16.3221, 32.6439, 5.4411



51.6704, 69.7923, 45.9763



35.1450, 42.3475, 6.3217



10.5761, 14.8004, 8.9694



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.



16.3221, 32.6439, 5.4411



29.5940, 59.1879, 9.8651



18.1676, 33.3821, 15.1597



8.3890, 9.4901, 9.0423



11.3913, 22.7825, 3.7974



0.3584, 0.7168, 0.1195



# Inverse Universe

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



27.0605, 12.9987, 44.2581



49.0645, 23.5683, 80.2461



20.6688, 10.4421, 10.6000



8.8500, 8.6467, 10.7087



18.8858, 9.0719, 30.8883

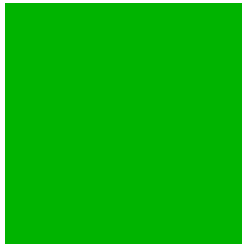


0.5942, 0.2854, 0.9719



# Previews

## White Background



This preview shows how the XYZ color 16.3213, 32.6425, 5.4404 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

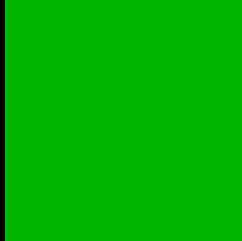
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 16.3213, 32.6425, 5.4404 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 16.3213, 32.6425, 5.4404**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.3213, 32.6425, 5.4404.



This preview shows how white text looks on a background with the XYZ color 16.3213, 32.6425,



# 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

16.3213, 32.6425, 5.4404

### Protanopia

28.7892, 31.9954, 4.6584

### Deuteranopia

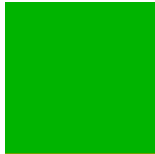
32.6374, 32.0417, 6.3839



## Tritanopia

25.1397, 32.5101, 48.6661

# Trichromacy



## Original Color

16.3213, 32.6425, 5.4404



## Protanomaly

19.5276, 29.5094, 4.6667



## Deuteranomaly

20.5707, 28.7349, 5.3819



## Tritanomaly

19.0660, 31.3712, 21.2700

# Monochromacy



## Original Color

16.3213, 32.6425, 5.4404



## Achromatopsia

13.6994, 14.4128, 15.6956



## Achromatomaly

11.7154, 18.3736, 8.2392

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.3213, 32.6425, 5.4404 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, 180, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 180, 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(0, 180, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 180, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 16.3213, 32.6425, 5.4404 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, 180, 0) }
```



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

```
.border{ border-color:rgb(0, 180, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 180, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 180, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 180, 0); box-shadow:4px  
4px 4px 4px rgb(0, 180, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.3213, 32.6425, 5.4404 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 180, 0) }
```

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

```
.background{ background-color: rgb(0, 180,  
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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