

# Converting Colors

XYZ(18.8546, 32.7524, 5.3281)

Have a look what the booklet for  
XYZ(18.8546, 32.7524, 5.3281)  
contains.

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# Color

**XYZ(18.8336, 32.7561,  
5.3299)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	50B000
RGB	80, 176, 0
RGB Percent	31%, 69%, 0%
CMY	0.6863, 0.3098, 0.9999
CMYK	0.55, 0.00, 1.00, 0.31
HSL	93°, 100%, 35%
HSV	93°, 100%, 69%
XYZ	18.8336, 32.7561, 5.3299
YIQ	127.2320, -0.7200, -75.0880

# Conversions

## Conversions Part 2

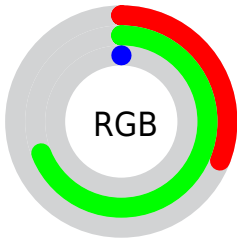
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 176, 96
Decimal	5287936
CIELab	63.96, -53.17, 64.71
CIELCh	64, 83.749, 129.411
Yxy	32.7561, 0.3309, 0.5755
Android (android.graphics.Color)	4283478016 (0xFF50B000)
YUV	127.2320, -62.7254, -41.4225
Hunter-Lab	57.2329, -41.4188, 34.5416

# Details

The XYZ color **18.8336, 32.7561, 5.3299** is a dark color, and the websafe version is hex **66CC33**. A complement of this color would be **12.6629, 5.6229, 41.4940**, and the grayscale version is **20.4634, 21.5291, 23.4452**.

A 20% lighter version of the original color is **40.8086, 63.7240, 16.9866**, and **6.9595, 13.9191, 2.3198** is the 20% darker color. If you saturate the color by 10%, you get **18.8335, 32.7571, 5.3301**, and if you desaturate by 10%, it is **19.8098, 33.2481, 5.9294**.

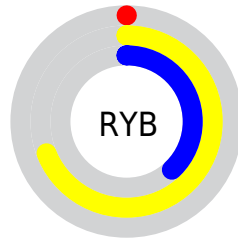
# Distribution



Red (31%)

Green (69%)

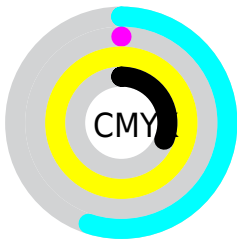
Blue (0%)



Red (0%)

Yellow (69%)

Blue (38%)

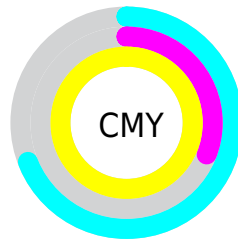


Cyan (55%)

Magenta (0%)

Yellow (100%)

Black (31%)



Cyan (69%)

Magenta (31%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8336, 32.7561, 5.3299 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 18.8336, 32.7561, 5.3299 by changing the saturation by 10% instead.





 18.8336, 32.7561,  
5.3299


 18.8336, 32.7561,  
5.3299


238.4844,  
314.5493, 162.0249


 11.6534, 21.9397,  
2.3800


 40.9718, 63.9946,  
16.9763


 6.5786, 13.8126,  
0.7755


 56.6605, 85.1854,  
26.5099

 3.2440, 7.9904,  
0.0000


 75.9160, 110.6031,  
39.0751

 1.2841, 4.0888,  
0.0000

 99.1038, 140.6321,  
55.0906

 0.1712, 1.7234,  
0.0000

 126.5892,  
175.6569, 74.9747

 0.0000, 0.4387,  
0.0000

 158.7375,

 0.0000, 0.0000,

216.0617, 99.1461

0.0000

195.9141,  
262.2310, 128.0233

18.8336, 32.7561,  
5.3299

18.8336, 32.7561,  
5.3299

18.8335, 32.7571,  
5.3301

19.8098, 33.2481,  
5.9294

21.0003, 33.8387,  
7.0317

22.4470, 34.5461,  
8.8311

24.1710, 35.3794,  
11.4187

26.1912, 36.3465,  
14.8716

■ 28.5241, 37.4545,  
19.2579

■ 31.1849, 38.7099,  
24.6388

■ 34.1878, 40.1187,  
31.0705

■ 37.5459, 41.6866,  
38.6047

# Harmonies

## Analogous

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



27.5683, 32.7561, 2.2949



18.8336, 32.7561, 5.3299



14.3545, 32.7561, 17.3438

# Triad

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



18.8336, 32.7561, 5.3299



23.8152, 32.7561, 137.6699



59.3192, 32.7561, 26.0587

# Complementary

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



18.8336, 32.7561, 5.3299



12.6629, 5.6229, 41.4940

# 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.



57.5781, 32.7561, 63.7534



18.8336, 32.7561, 5.3299



34.9940, 32.7561, 145.8916

# Square

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



18.8336, 32.7561, 5.3299



16.6850, 32.7561, 94.8910



47.8792, 32.7561, 113.1391



52.1660, 32.7561, 8.2694



# Rectangle

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



18.8336, 32.7561, 5.3299



13.5073, 32.7561, 35.0016



47.8792, 32.7561, 113.1391



59.7880, 32.7561, 36.3384

# Sweetspot

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



18.8344, 32.7575, 5.3306



56.2835, 70.0754, 44.1161



21.8970, 17.2139, 2.1690



11.7546, 14.9778, 8.6516



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



18.8344, 32.7575, 5.3306



33.9022, 59.2771, 9.6548



15.5584, 31.0650, 5.3451



8.7436, 9.6729, 9.0587



13.8837, 24.0674, 3.9137



0.5044, 0.7921, 0.1263



# Inverse Universe

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



12.6629, 5.6229, 41.4940



22.6988, 10.0598, 75.2407



25.1741, 12.1383, 39.1144



8.4701, 8.4509, 10.6911



9.3581, 4.1601, 30.4467

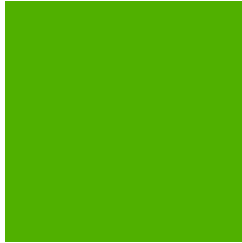


0.3606, 0.1650, 0.9611



# Previews

## White Background



This preview shows how the XYZ color 18.8336, 32.7561, 5.3299 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 18.8336, 32.7561, 5.3299 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

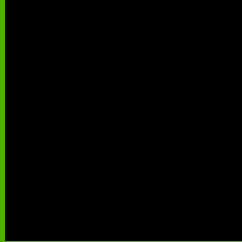
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 18.8336, 32.7561, 5.3299**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.8336, 32.7561, 5.3299.



This preview shows how white text looks on a background with the XYZ color 18.8336, 32.7561,



# 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

18.8336, 32.7561, 5.3299

### Protanopia

29.0112, 32.1099, 4.6688

### Deuteranopia

32.8455, 32.1545, 6.1444



## Tritanopia

27.1551, 32.7894, 46.4927

# Trichromacy



## Original Color

18.8336, 32.7561, 5.3299

## Protanomaly

23.7355, 31.4161, 4.8129

## Deuteranomaly

25.3485, 30.9481, 5.4482

## Tritanomaly

21.9130, 31.7389, 20.5941

# Monochromacy



## Original Color

18.8336, 32.7561, 5.3299

## Achromatopsia

20.1725, 21.2231, 23.1119

## Achromatomaly

18.0410, 24.1599, 11.4970

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.8336, 32.7561, 5.3299 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(80, 176, 0)` looks like.

```
.text, #text, p{  
    color:rgb(80, 176, 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(80, 176, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 176, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 18.8336, 32.7561, 5.3299 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(80, 176, 0) }
```



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

```
.border{ border-color:rgb(80, 176, 0) }
```

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

Here you see how a box with a 4 pixel rgb(80, 176, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 176, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 176, 0);  
box-shadow:4px 4px 4px 4px rgb(80, 176, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.8336, 32.7561, 5.3299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 176, 0) }
```

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

```
.background{ background-color: rgb(80, 176,  
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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