

# Converting Colors

XYZ(19.8071, 33.8596, 6.3770)

Have a look what the booklet for  
XYZ(19.8071, 33.8596, 6.3770)  
contains.

<b>XYZ(19.7414, 33.7916, 6.3461)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(19.7414, 33.7916,  
6.3461)**

# Conversions

## Conversions Part 1

Format	Color
Hex	54B218
RGB	84, 178, 24
RGB Percent	33%, 70%, 9%
CMY	0.6706, 0.3019, 0.9058
CMYK	0.53, 0.00, 0.87, 0.30
HSL	97°, 76%, 40%
HSV	97°, 87%, 70%
XYZ	19.7414, 33.7916, 6.3461
YIQ	132.3380, -6.5900, -67.8220

# Conversions

## Conversions Part 2

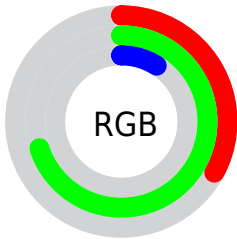
<b>Format</b>	<b>Color</b>
<b>RYB</b>	24, 178, 118
Decimal	5550616
CIELab	64.80, -52.15, 61.76
CIELCh	65, 80.836, 130.179
Yxy	33.7916, 0.3297, 0.5643
Android (android.graphics.Color)	4283740696 (0xFF54B218)
YUV	132.3380, -53.4106, -42.3924
Hunter-Lab	58.1305, -41.1090, 34.2187

# Details

The XYZ color **19.7414, 33.7916, 6.3461** is a dark color, and the websafe version is hex **66CC33**. A complement of this color would be **15.8362, 7.7207, 42.7770**, and the grayscale version is **22.2442, 23.4026, 25.4855**.

A 20% lighter version of the original color is **42.7157, 65.9282, 19.2782**, and **7.2577, 14.4411, 2.4049** is the 20% darker color. If you saturate the color by 10%, you get **18.7129, 33.2776, 5.6152**, and if you desaturate by 10%, it is **21.0410, 34.4338, 7.7101**.

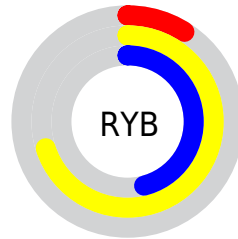
# Distribution



Red (33%)

Green (70%)

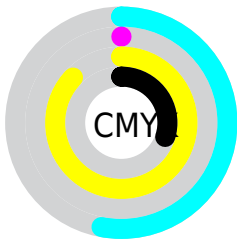
Blue (9%)



Red (9%)

Yellow (70%)

Blue (46%)

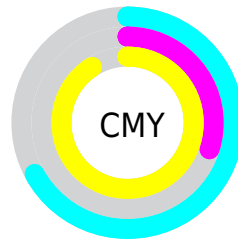


Cyan (53%)

Magenta (0%)

Yellow (87%)

Black (30%)



Cyan (67%)

Magenta (30%)

Yellow (91%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.7414, 33.7916, 6.3461 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 19.7414, 33.7916, 6.3461 by changing the saturation by 10% instead.



■ 19.7414, 33.7916,  
6.3461

■ 19.7414, 33.7916,  
6.3461

243.3720,  
319.2018, 171.5333

■ 12.3144, 22.7335,  
2.9845

■ 42.4905, 65.6095,  
19.1351

■ 7.0319, 14.3969,  
1.0867

■ 58.5432, 87.1381,  
29.3995

■ 3.5286, 8.3972,  
0.0000

■ 78.2019, 112.9256,  
42.8019

■ 1.4390, 4.3502,  
0.0000

■ 101.8319,  
143.3565, 59.7609

■ 0.2838, 1.8713,  
0.0000

■ 129.7985,  
178.8152, 80.6950

■ 0.0000, 0.5310,  
0.0000

■ 162.4672,

■ 0.0000, 0.0000,

219.6861, 106.0228

0.0000

200.2033,  
266.3535, 136.1627

■ 19.7414, 33.7916,  
6.3461

■ 19.7414, 33.7916,  
6.3461

■ 18.7129, 33.2776,  
5.6152

■ 21.0410, 34.4338,  
7.7101

■ 18.3998, 33.1201,  
5.4230

■ 22.6384, 35.2121,  
9.8246

■ 24.5574, 36.1380,  
12.7784

■ 26.8179, 37.2200,  
16.6475

■ 29.4382, 38.4662,  
21.4992

■ 32.4353, 39.8838,  
27.3946

■ 35.8246, 41.4798,  
34.3898

■ 39.6208, 43.2604,  
42.5368

■ 43.8379, 45.2319,  
51.8844

# Harmonies

## Analogous

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



28.3252, 33.7916, 2.9019



19.7414, 33.7916, 6.3461



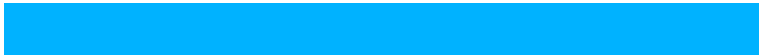
15.3378, 33.7916, 19.0679

# Triad

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



19.7414, 33.7916, 6.3461



25.1156, 33.7916, 135.9314



59.5430, 33.7916, 26.5946

# Complementary

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



19.7414, 33.7916, 6.3461



15.8362, 7.7207, 42.7770

# 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.



58.0868, 33.7916, 63.0653



19.7414, 33.7916, 6.3461



36.2349, 33.7916, 142.6994

# Square

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



19.7414, 33.7916, 6.3461



17.8816, 33.7916, 95.5210



48.8162, 33.7916, 110.6336



52.4149, 33.7916, 9.0091



# Rectangle

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



19.7414, 33.7916, 6.3461



14.5425, 33.7916, 36.9942



48.8162, 33.7916, 110.6336



60.0757, 33.7916, 36.5931

# Sweetspot

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



19.7422, 33.7930, 6.3468



58.8526, 72.3405, 49.7486



24.8182, 22.1160, 3.8254



12.6091, 15.8241, 10.1620



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.



19.7422, 33.7930, 6.3468



33.1259, 59.9350, 9.8227



16.6711, 32.1858, 7.2890



8.6917, 9.6461, 9.0563



13.2308, 23.7308, 3.8832



0.4828, 0.7809, 0.1253



# Inverse Universe

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



15.8362, 7.7207, 42.7770



25.6685, 11.5492, 77.2575



25.2632, 12.7492, 35.5941



8.5231, 8.4782, 10.6936



10.3043, 4.6479, 30.4910



0.3873, 0.1787, 0.9623



# Previews

## White Background



This preview shows how the XYZ color 19.7414, 33.7916, 6.3461 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 19.7414, 33.7916, 6.3461 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 19.7414, 33.7916, 6.3461**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.7414, 33.7916, 6.3461.



This preview shows how white text looks on a background with the XYZ color 19.7414, 33.7916,



# 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

19.7414, 33.7916, 6.3461

### Protanopia

30.0626, 33.3845, 5.3897

### Deuteranopia

33.7909, 33.0900, 6.8915



## **Tritanopia**

28.0796, 33.7783, 47.6877

# Trichromacy



## Original Color

19.7414, 33.7916, 6.3461



## Protanomaly

24.9091, 32.8004, 5.6801



## Deuteranomaly

26.2341, 31.8922, 6.4422



## Tritanomaly

23.2054, 32.8888, 23.8640

# Monochromacy



## Original Color

19.7414, 33.7916, 6.3461



## Achromatopsia

21.9318, 23.0740, 25.1276



## Achromatomaly

19.7935, 25.9300, 14.3177

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.7414, 33.7916, 6.3461 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(84, 178, 24)` looks like.

```
.text, #text, p{  
    color:rgb(84, 178, 24)  
}
```

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(84, 178, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(84, 178, 24) }
```

## Border

The CSS property to change the border of an element to XYZ 19.7414, 33.7916, 6.3461 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(84, 178, 24) }
```



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

```
.border{ border-color:rgb(84, 178, 24) }
```

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

Here you see how a box with a 4 pixel `rgb(84, 178, 24)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(84, 178, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(84, 178, 24);  
box-shadow:4px 4px 4px 4px rgb(84, 178,  
24) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.7414, 33.7916, 6.3461 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(84, 178, 24) }
```

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

```
.background{ background-color: rgb(84, 178,  
24) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor