

# Converting Colors

XYZ(31.7944, 54.1110, 8.7687)

Have a look what the booklet for  
XYZ(31.7944, 54.1110, 8.7687)  
contains.

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# Color

**XYZ(31.7619, 53.9780,  
8.7448)**

# Conversions

Conversions Part 1	
Format	Color
Hex	6EDB00
RGB	110, 219, 0
RGB Percent	43%, 86%, 0%
CMY	0.5686, 0.1412, 0.9999
CMYK	0.50, 0.00, 1.00, 0.14
HSL	90°, 100%, 43%
HSV	90°, 100%, 86%
XYZ	31.7619, 53.9780, 8.7448
YIQ	161.4430, 5.3350, -91.2170

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	<a href="#">0, 219, 109</a>
Decimal	<a href="#">7265024</a>
CIELab	<a href="#">78.45, -60.14, 76.55</a>
CIELCh	<a href="#">78, 97.349, 128.152</a>
Yxy	<a href="#">53.9780, 0.3362, 0.5713</a>
Android (android.graphics.Color)	<a href="#">4285455104</a> (0xFF6EDB00)
YUV	<a href="#">161.4430, -79.5914, -45.1155</a>
Hunter-Lab	<a href="#">73.4697, -51.4042, 44.3718</a>

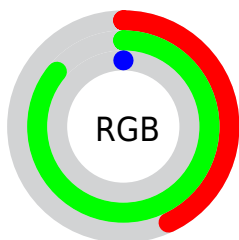
# Details

The XYZ color **31.7619, 53.9780, 8.7448** is a dark color, and the websafe version is hex **66CC00**.

The color can be described as dark washed chartreuse. A complement of this color would be **19.0979, 8.3687, 67.6296**, and the grayscale version is **34.4432, 36.2370, 39.4621**.

A 20% lighter version of the original color is **54.1943, 80.8338, 21.3405**, and **13.9723, 26.6455, 4.4067** is the 20% darker color. If you saturate the color by 10%, you get **31.7612, 53.9793, 8.7451**, and if you desaturate by 10%, it is **33.3481, 54.7808, 9.5716**.

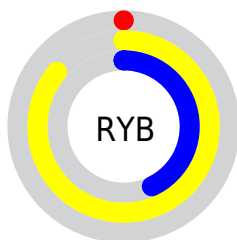
# Distribution



Red (43%)

Green (86%)

Blue (0%)



Red (0%)

Yellow (86%)

Blue (43%)

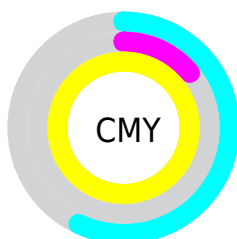


Cyan (50%)

Magenta (0%)

Yellow (100%)

Black (14%)



Cyan (57%)

Magenta (14%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.7619, 53.9780, 8.7448 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 31.7619, 53.9780, 8.7448 by changing the saturation by 10% instead.





 31.7619, 53.9780,  
8.7448


 31.7619, 53.9780,  
8.7448


301.7978,  
402.0261, 191.6100


 21.3344, 38.5841,  
4.4806


 61.8054, 96.0419,  
23.9760


 13.4825, 26.4363,  
1.8925


 82.1520, 123.4807,  
35.7800

 7.8409, 17.1503,  
0.4880


 106.5357,  
155.7033, 50.9343

 4.0443, 10.3417,  
0.0000

 135.3218,  
193.0940, 69.8575

 1.7272, 5.6261,  
0.0000

 168.8757,  
236.0372, 92.9682

 0.4732, 2.6191,  
0.0000


 207.5628,


 0.0000, 0.9363,


284.9174, 120.6847


0.0000


251.7484,  
340.1189, 153.4258


 0.0000, 0.0000,  
0.0000


 31.7619, 53.9780,  
8.7448


 31.7619, 53.9780,  
8.7448

 31.7612, 53.9793,  
8.7451


 33.3481, 54.7808,  
9.5716

 35.2691, 55.7356,  
11.2653


 37.5848, 56.8688,  
14.1085

 40.3306, 58.1953,  
18.2597

 43.5368, 59.7277,  
23.8523

 47.2303, 61.4773,  
31.0034

 51.4357, 63.4545,  
39.8180

 56.1756, 65.6689,  
50.3918

 61.4712, 68.1294,  
62.8136

# Harmonies

## Analogous

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



46.2608, 53.9780, 3.9985



31.7619, 53.9780, 8.7448



24.1647, 53.9780, 27.6261

# Triad

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



31.7619, 53.9780, 8.7448



38.7904, 53.9780, 220.9317



97.0411, 53.9780, 45.0583

# Complementary

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



31.7619, 53.9780, 8.7448



19.0979, 8.3687, 67.6296

# 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.



93.6080, 53.9780, 107.3735



31.7619, 53.9780, 8.7448



56.7020, 53.9780, 237.0370

# Square

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



31.7619, 53.9780, 8.7448



27.4636, 53.9780, 150.8919



77.5639, 53.9780, 186.7328



86.0300, 53.9780, 14.7455



# Rectangle

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



31.7619, 53.9780, 8.7448



22.6106, 53.9780, 55.4382



77.5639, 53.9780, 186.7328



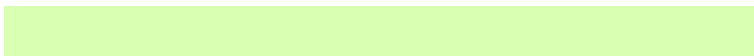
97.5816, 53.9780, 62.2386

# Sweetspot

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



31.7631, 53.9803, 8.7460



72.4373, 89.4937, 55.8393



34.3552, 25.3415, 3.0815



14.9467, 18.8935, 10.7621



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.



31.7631, 53.9803, 8.7460



44.6714, 76.1140, 12.3370



25.3789, 50.6891, 8.4472



13.5065, 14.9259, 13.8947



18.9586, 32.0710, 5.1911



1.3276, 2.1290, 0.3410



# Inverse Universe

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



19.0979, 8.3687, 67.6296



26.7931, 11.7273, 95.4592



40.9157, 19.6162, 68.6506



12.9531, 12.9339, 16.4659



11.4487, 5.0262, 40.1051

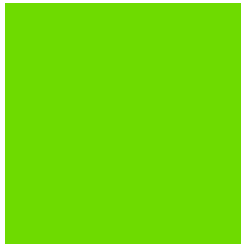


0.8411, 0.3768, 2.6029



# Previews

## White Background



This preview shows how the XYZ color 31.7619, 53.9780, 8.7448 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

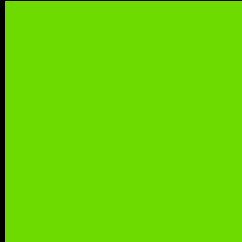
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.7619, 53.9780, 8.7448 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 31.7619, 53.9780, 8.7448**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.7619, 53.9780, 8.7448.



This preview shows how white text looks on a background with the XYZ color 31.7619, 53.9780,



# 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

31.7619, 53.9780, 8.7448

### Protanopia

47.9834, 53.0454, 7.7098

### Deuteranopia

54.3693, 53.1111, 9.8685




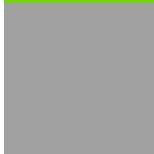

## Tritanopia

45.1586, 53.8420, 75.7226

# Trichromacy

	<b>Original Color</b> 31.7619, 53.9780, 8.7448
	<b>Protanomaly</b> 39.7109, 51.8248, 7.9102
	<b>Deuteranomaly</b> 42.4674, 51.1707, 8.8011
	<b>Tritanomaly</b> 36.4362, 52.0836, 32.9437

# Monochromacy

	<b>Original Color</b> 31.7619, 53.9780, 8.7448
	<b>Achromatopsia</b> 33.8758, 35.6400, 38.8120
	<b>Achromatomaly</b> 30.2816, 40.1660, 18.7272

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.7619, 53.9780, 8.7448 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(110, 219, 0)` looks like.

```
.text, #text, p{  
    color:rgb(110, 219, 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(110, 219, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(110, 219, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 31.7619, 53.9780, 8.7448 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(110, 219, 0) }
```



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

```
.border{ border-color:rgb(110, 219, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(110, 219, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(110, 219, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(110, 219, 0);  
box-shadow:4px 4px 4px 4px rgb(110, 219,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.7619, 53.9780, 8.7448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(110, 219, 0) }
```

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

```
.background{ background-color: rgb(110,  
219, 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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