

# Converting Colors

XYZ(31.7556, 19.7874, 87.7336)

Have a look what the booklet for  
XYZ(31.7556, 19.7874, 87.7336)  
contains.

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# Color

**XYZ(31.7556, 19.7874,  
87.7336)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9259F4
RGB	146, 89, 244
RGB Percent	57%, 35%, 96%
CMY	0.4274, 0.6510, 0.0431
CMYK	0.40, 0.64, 0.00, 0.04
HSL	262°, 88%, 65%
HSV	262°, 64%, 96%
XYZ	31.7556, 19.7874, 87.7336
YIQ	123.7130, -15.7830, 60.2890

# Conversions

## Conversions Part 2

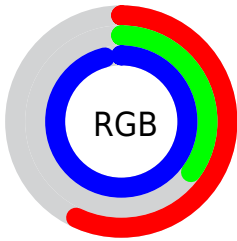
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	146, 89, 244
Decimal	9591284
CIE Lab	51.60, 55.59, -69.56
CIE LCh	52, 89.044, 308.627
Yxy	19.7874, 0.2280, 0.1421
Android (android.graphics.Color)	4287781364 (0xFF9259F4)
YUV	123.7130, 59.3015, 19.5457
Hunter-Lab	44.4830, 49.5825, -85.7992

# Details

The XYZ color **31.7556, 19.7874, 87.7336** is a light color, and the websafe version is hex **9966FF**. The color can be described as light muted purple. A complement of this color would be **54.6469, 75.9874, 21.2383**, and the grayscale version is **18.8767, 19.8597, 21.6273**.

A 20% lighter version of the original color is **52.8998, 39.5451, 99.4526**, and **13.4690, 6.8894, 47.6336** is the 20% darker color. If you saturate the color by 10%, you get **27.4915, 15.0583, 87.0460**, and if you desaturate by 10%, it is **37.0642, 26.0536, 88.6637**.

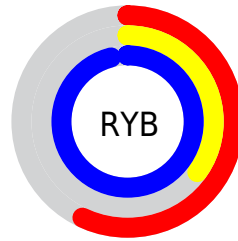
# Distribution



Red (57%)

Green (35%)

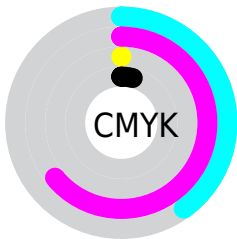
Blue (96%)



Red (57%)

Yellow (35%)

Blue (96%)

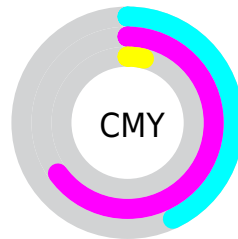


Cyan (40%)

Magenta (64%)

Yellow (0%)

Black (4%)



Cyan (43%)

Magenta (65%)

Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.7556, 19.7874, 87.7336 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 31.7556, 19.7874, 87.7336 by changing the saturation by 10% instead.





 31.7556, 19.7874,  
87.7336


 31.7556, 19.7874,  
87.7336


301.7695,  
250.7619, 541.0091


 21.3295, 12.2406,  
65.5394


 61.7955, 43.0605,  
146.0941

 13.4789, 6.9078,  
47.4445


 82.1401, 59.5555,  
183.0974

 7.8384, 3.4045,  
33.0303


 106.5216, 79.8021,  
225.8743

 4.0427, 1.3464,  
21.8783

 135.3053,  
104.1846, 274.8431

 1.7263, 0.1767,  
13.5701

168.8566,  
133.0874, 330.4224

 0.4726, 0.0000,  
7.6869

207.5408,

 0.0000, 0.0000,

166.8950, 393.0309

3.8104

251.7233,  
205.9917, 463.0869

■ 0.0000, 0.0000,  
1.5219

■ 0.0000, 0.0000,  
0.2342

■ 31.7556, 19.7874,  
87.7336

■ 31.7556, 19.7874,  
87.7336

■ 27.4915, 15.0583,  
87.0460

■ 37.0642, 26.0536,  
88.6637

■ 24.1850, 11.7180,  
86.5755

■ 43.4883, 33.9821,  
89.8555

■ 21.7367, 9.5901,  
86.2938

■ 51.0953, 43.6870,  
91.3278

■ 20.5199, 8.6921,  
86.1846

■ 59.9463, 55.2715,  
93.0973

70.0976, 68.8307,  
95.1795

81.6022, 84.4534,  
97.5886

92.9588, 99.1207,  
99.8211

93.3292, 99.3117,  
99.8385

# Harmonies

## Analogous

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



21.5143, 19.7874, 116.5380



31.7556, 19.7874, 87.7336



39.8682, 19.7874, 45.0184

# Triad

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



31.7556, 19.7874, 87.7336



25.8173, 19.7874, 0.4222



6.3915, 19.7874, 29.8342

# Complementary

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



31.7556, 19.7874, 87.7336



54.6469, 75.9874, 21.2383

# 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.



6.8862, 19.7874, 8.0940



31.7556, 19.7874, 87.7336



16.3375, 19.7874, 0.0645

# Square

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



31.7556, 19.7874, 87.7336



35.7504, 19.7874, 3.0831



9.9662, 19.7874, 1.4114



8.2967, 19.7874, 69.4134



# Rectangle

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



31.7556, 19.7874, 87.7336



41.8488, 19.7874, 22.7500



9.9662, 19.7874, 1.4114



6.2994, 19.7874, 20.3835

# Sweetspot

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



31.7566, 19.7880, 87.7341



71.1087, 67.5341, 103.8953



38.2550, 44.2673, 92.1166



14.5492, 13.5622, 22.1009



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.



31.7566, 19.7880, 87.7341



29.3193, 15.5226, 96.0586



50.4361, 29.4177, 88.6083



16.1567, 16.2234, 20.8225



11.2950, 4.7971, 46.8686



1.1018, 0.4779, 4.1244



# Inverse Universe

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



49.8502, 29.9659, 50.1687



51.5426, 28.0681, 47.8987



40.5432, 68.7167, 20.5783



16.9400, 16.6589, 19.4306



23.5378, 11.7586, 18.0723

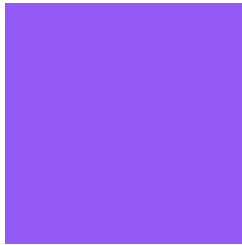


2.1182, 1.0532, 1.8486



# Previews

## White Background



This preview shows how the XYZ color 31.7556, 19.7874, 87.7336 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

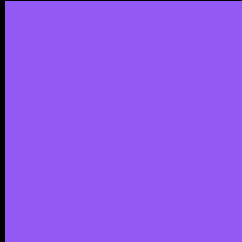
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 31.7556, 19.7874, 87.7336 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 × Fail

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

**XYZ 31.7556, 19.7874, 87.7336**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.7556, 19.7874, 87.7336.



This preview shows how white text looks on a background with the XYZ color 31.7556, 19.7874,



# 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

31.7556, 19.7874, 87.7336

### Protanopia

23.8910, 19.9219, 93.8529

### Deuteranopia

20.1198, 19.7817, 69.7757



## Tritanopia

19.0095, 19.6500, 24.6207

# Trichromacy



## Original Color

31.7556, 19.7874, 87.7336



## Protanomaly

23.6692, 18.0496, 91.0434



## Deuteranomaly

21.2660, 17.9467, 75.7420



## Tritanomaly

22.3247, 18.9148, 42.0094

# Monochromacy



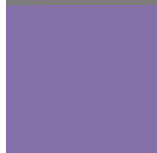
## Original Color

31.7556, 19.7874, 87.7336



## Achromatopsia

19.1579, 20.1556, 21.9495



## Achromatomaly

22.2680, 19.1016, 39.5591

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.7556, 19.7874, 87.7336 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(146, 89, 244)` looks like.

```
.text, #text, p{  
    color:rgb(146, 89, 244)  
}
```

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(146, 89, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 89, 244) }
```

## Border

The CSS property to change the border of an element to XYZ 31.7556, 19.7874, 87.7336 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(146, 89, 244) }
```



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

```
.border{ border-color:rgb(146, 89, 244) }
```

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

Here you see how a box with a 4 pixel `rgb(146, 89, 244)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(146, 89, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(146, 89, 244);  
box-shadow:4px 4px 4px 4px rgb(146, 89,  
244) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.7556, 19.7874, 87.7336 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 89, 244) }
```

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

```
.background{ background-color: rgb(146, 89,  
244) }
```

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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