

# Converting Colors

XYZ(32.0057, 14.4147, 95.7032)

Have a look what the booklet for  
XYZ(32.0057, 14.4147, 95.7032)  
contains.

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# Color

**XYZ(31.9546, 14.3881,  
95.7007)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9D00FF
RGB	157, 0, 255
RGB Percent	62%, 0%, 100%
CMY	0.3843, 1.0000, 0.0000
CMYK	0.38, 1.00, 0.00, 0.00
HSL	277°, 100%, 50%
HSV	277°, 100%, 100%
XYZ	31.9546, 14.3881, 95.7007
YIQ	76.0130, 11.7170, 112.5890

# Conversions

## Conversions Part 2

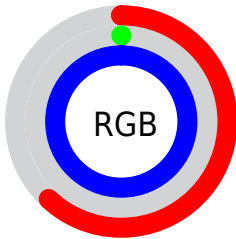
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	157, 0, 255
Decimal	10289407
CIE <sub>Lab</sub>	44.78, 85.67, -86.78
CIE <sub>LCh</sub>	45, 121.941, 314.631
Yxy	14.3881, 0.2250, 0.1013
Android (android.graphics.Color)	4288479487 (0xFF9D00FF)
YUV	76.0130, 88.2406, 71.0256
Hunter-Lab	37.9316, 83.9926, -123.0352

# Details

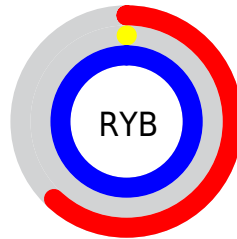
The XYZ color **31.9546, 14.3881, 95.7007** is a dark color, and the websafe version is hex **9900FF**. The color can be described as middle saturated purple. A complement of this color would be **40.7966, 74.1164, 12.1557**, and the grayscale version is **6.7150, 7.0647, 7.6935**.

A 20% lighter version of the original color is **50.7531, 29.2595, 97.5804**, and **14.5922, 6.3584, 53.2815** is the 20% darker color. If you saturate the color by 10%, you get **31.9554, 14.3885, 95.7008**, and if you desaturate by 10%, it is **34.3033, 16.1310, 95.9133**.

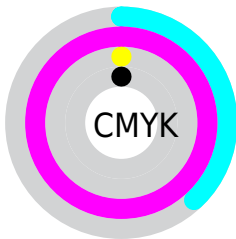
# Distribution



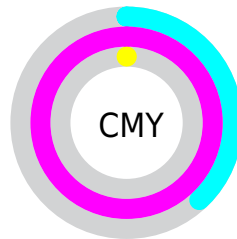
- Red (62%)
- Green (0%)
- Blue (100%)



- Red (62%)
- Yellow (0%)
- Blue (100%)



- Cyan (38%)
- Magenta (100%)
- Yellow (0%)
- Black (0%)




- Cyan (38%)
- Magenta (100%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.9546, 14.3881, 95.7007 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 31.9546, 14.3881, 95.7007 by changing the saturation by 10% instead.




 31.9546, 14.3881,  
95.7007


 31.9546, 14.3881,  
95.7007


302.6614,  
219.6320, 567.4473


 21.4822, 8.3911,  
72.1182


 62.1056, 33.7761,  
157.2362

 13.5914, 4.3462,  
52.7678


 82.5149, 47.9358,  
196.0263

 7.9168, 1.8690,  
37.2310


 106.9672, 65.5853,  
240.7226

 4.0931, 0.5297,  
25.0892

 135.8279, 87.1089,  
291.7438

 1.7550, 0.0000,  
15.9239

 169.4623,  
112.8909, 349.5083

 0.4903, 0.0000,  
9.3165

 208.2357,

 0.0000, 0.0000,

143.3159, 414.4347

4.8486

252.5137,  
178.7681, 486.9415

■ 0.0000, 0.0000,  
2.1015

■ 0.0000, 0.0000,  
0.6167

■ 31.9546, 14.3881,  
95.7007

■ 31.9546, 14.3881,  
95.7007

■ 31.9554, 14.3885,  
95.7008

■ 34.3033, 16.1310,  
95.9133

■ 37.2751, 18.8882,  
96.2889

■ 41.0168, 22.9477,  
96.8753

■ 45.6190, 28.4857,  
97.7016

■ 51.1583, 35.6503,  
98.7926

■ 57.7016, 44.5712,  
100.1696

■ 65.3092, 55.3645,  
101.8520

■ 74.0363, 68.1362,  
103.8572

■ 83.9340, 82.9843,  
106.2015

# Harmonies

## Analogous

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



19.0880, 14.3881, 150.5022



31.9546, 14.3881, 95.7007



41.5860, 14.3881, 35.0881

# Triad

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



31.9546, 14.3881, 95.7007



19.3859, 14.3881, 0.0000



2.2712, 14.3881, 33.9374

# Complementary

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



31.9546, 14.3881, 95.7007



40.7966, 74.1164, 12.1557

# 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.



2.2905, 14.3881, 5.1830



31.9546, 14.3881, 95.7007



9.3970, 14.3881, 0.0000

# Square

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



31.9546, 14.3881, 95.7007



32.2615, 14.3881, 0.0000



4.1690, 14.3881, 0.0000



4.0908, 14.3881, 94.0477



# Rectangle

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



31.9546, 14.3881, 95.7007



42.9020, 14.3881, 11.6525



4.1690, 14.3881, 0.0000



2.1071, 14.3881, 20.5096

# Sweetspot

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



31.9554, 14.3885, 95.7008



65.3092, 55.3645, 101.8520



22.8014, 16.7227, 96.6338



13.2638, 10.8259, 21.6405



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.



31.9554, 14.3885, 95.7008



55.4528, 26.9451, 76.7735



18.0770, 17.9314, 22.7583



16.8692, 7.6069, 50.0138



1.7646, 0.8036, 4.8754

# Inverse Universe

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



43.4444, 22.1418, 13.5383



35.9409, 71.5924, 12.8727



18.2983, 18.1026, 20.1878



22.7679, 11.5965, 7.4284



2.2682, 1.1497, 0.9940

# Previews

## White Background



This preview shows how the XYZ color 31.9546, 14.3881, 95.7007 looks on a white background.

## Color Contrast Check

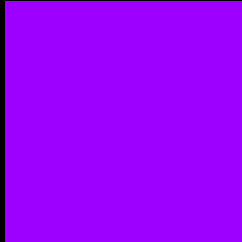
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the XYZ color 31.9546, 14.3881, 95.7007 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

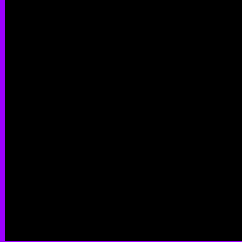
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 31.9546, 14.3881, 95.7007**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.9546, 14.3881, 95.7007.



This preview shows how white text looks on a background with the XYZ color 31.9546, 14.3881,





# 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

31.9546, 14.3881, 95.7007

### Protanopia

17.6052, 14.9626, 68.2898

### Deuteranopia

14.5456, 14.7397, 49.0921



## Tritanopia

15.9634, 14.6879, 15.9036

# Trichromacy



## Original Color

31.9546, 14.3881, 95.7007



## Protanomaly

18.0594, 10.5358, 76.6831



## Deuteranomaly

15.7612, 10.0036, 63.3875



## Tritanomaly

18.7477, 11.6433, 34.9775

# Monochromacy



## Original Color

31.9546, 14.3881, 95.7007



## Achromatopsia

6.8694, 7.2272, 7.8704



## Achromatomaly

11.6904, 7.0402, 25.9421

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.9546, 14.3881, 95.7007 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(157, 0, 255)` looks like.

```
.text, #text, p{  
    color:rgb(157, 0, 255)  
}
```

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(157, 0, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 0, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 31.9546, 14.3881, 95.7007 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(157, 0, 255) }
```

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

```
.border{ border-color:rgb(157, 0, 255) }
```

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

Here you see how a box with a 4 pixel rgb(157, 0, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 0, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 0, 255);  
box-shadow:4px 4px 4px 4px rgb(157, 0,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.9546, 14.3881, 95.7007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 0, 255) }
```

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

```
.background{ background-color: rgb(157, 0,  
255) }
```

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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