

# Converting Colors

XYZ(42.2433, 32.4770,  
105.5636)

Have a look what the booklet for  
XYZ(42.2433, 32.4770, 105.5636)  
contains.

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# Color

**XYZ(40.8145, 31.8170,  
98.5979)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9E87FF
RGB	158, 135, 255
RGB Percent	62%, 53%, 100%
CMY	0.3804, 0.4706, 0.0000
CMYK	0.38, 0.47, 0.00, 0.00
HSL	252°, 100%, 76%
HSV	252°, 47%, 100%
XYZ	40.8145, 31.8170, 98.5979
YIQ	155.5570, -24.8120, 42.1960

# Conversions

## Conversions Part 2

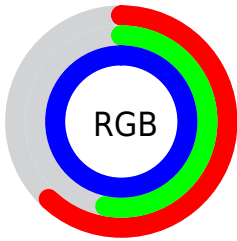
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	158, 135, 255
Decimal	10389503
CIE Lab	63.19, 35.88, -56.96
CIE LCh	63, 67.315, 302.208
Yxy	31.8170, 0.2384, 0.1858
Android (android.graphics.Color)	4288579583 (0xFF9E87FF)
YUV	155.5570, 49.0254, 2.1425
Hunter-Lab	56.4066, 30.4470, -64.1535

# Details

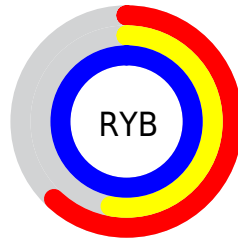
The XYZ color **40.8145, 31.8170, 98.5979** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **73.4114, 90.4248, 36.5070**, and the grayscale version is **31.2007, 32.8256, 35.7470**.

A 20% lighter version of the original color is **64.5665, 58.2141, 102.4412**, and **18.8084, 13.3409, 55.0098** is the 20% darker color. If you saturate the color by 10%, you get **33.9533, 23.6163, 97.3766**, and if you desaturate by 10%, it is **49.2099, 42.0741, 100.1352**.

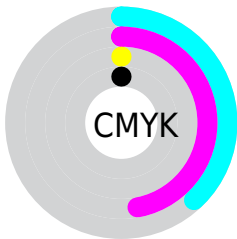
# Distribution



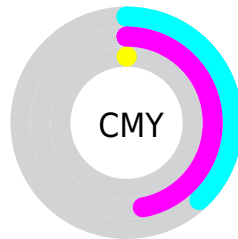
- Red (62%)
- Green (53%)
- Blue (100%)



- Red (62%)
- Yellow (53%)
- Blue (100%)



- Cyan (38%)
- Magenta (47%)
- Yellow (0%)
- Black (0%)



- Cyan (38%)
- Magenta (47%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.8145, 31.8170, 98.5979 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 40.8145, 31.8170, 98.5979 by changing the saturation by 10% instead.



40.8145, 31.8170,  
98.5979

40.8145, 31.8170,  
98.5979

340.6206,  
310.2848, 576.8962

28.3612, 21.2218,  
74.5198

75.6787, 62.5241,  
161.2641

18.7400, 13.2862,  
54.7202

98.8203, 83.4047,  
200.6892

11.5854, 7.6259,  
38.7807

126.2554,  
108.4826, 246.0670

6.5322, 3.8565,  
26.2826

158.3493,  
138.1422, 297.8162

3.2150, 1.5936,  
16.8075

195.4675,  
172.7678, 356.3551

1.2685, 0.3533,  
9.9369

237.9752,

0.1594, 0.0000,

212.7438, 422.1024

5.2521

286.2377,  
258.4547, 495.4766

■ 0.0000, 0.0000,  
2.3346

■ 0.0000, 0.0000,  
0.7505

■ 40.8145, 31.8170,  
98.5979

■ 40.8145, 31.8170,  
98.5979

■ 33.9533, 23.6163,  
97.3766

■ 49.2099, 42.0741,  
100.1352

■ 28.5271, 17.3277,  
96.4488

■ 59.2232, 54.5121,  
102.0082

■ 24.4301, 12.7929,  
95.7894

■ 70.9361, 69.2492,  
104.2354

■ 21.5393, 9.8262,  
95.3691

■ 84.4237, 86.3942,  
106.8339

■ 19.7039, 8.1935,  
95.1507

95.0500, 100.0000,  
108.9000

■ 19.3109, 7.8700,  
95.1090

# Harmonies

## Analogous

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



30.9357, 31.8170, 115.2111



40.8145, 31.8170, 98.5979



48.9903, 31.8170, 64.4470

# Triad

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



40.8145, 31.8170, 98.5979



39.3737, 31.8170, 6.2104



15.6548, 31.8170, 36.6552

# Complementary

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



40.8145, 31.8170, 98.5979



73.4114, 90.4248, 36.5070

# 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.



17.0143, 31.8170, 15.8235



40.8145, 31.8170, 98.5979



29.5570, 31.8170, 4.5242

# Square

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



40.8145, 31.8170, 98.5979



48.0457, 31.8170, 13.8809



21.6724, 31.8170, 6.8594



17.4884, 31.8170, 69.7586



# Rectangle

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



40.8145, 31.8170, 98.5979



51.6562, 31.8170, 42.0648



21.6724, 31.8170, 6.8594



15.7529, 31.8170, 28.1505

# Sweetspot

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



40.8157, 31.8181, 98.5980



74.8688, 74.2316, 104.9899



57.1811, 70.6491, 105.2306



15.4274, 15.1311, 22.3574



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.



40.8157, 31.8181, 98.5980



34.6096, 24.3909, 97.4915



55.3298, 39.3004, 99.2773



17.3279, 17.5453, 22.7232



10.1823, 4.1597, 49.7008



1.0730, 0.4471, 4.8430



# Inverse Universe

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



64.4695, 44.4146, 81.5174



61.0081, 38.4733, 77.3383



57.3672, 82.1537, 35.7562



18.6346, 18.2371, 21.9588



27.4308, 13.4616, 31.9826

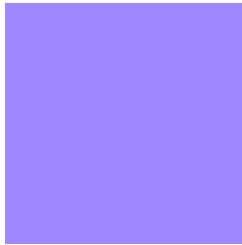


2.7074, 1.3253, 3.3067



# Previews

## White Background



This preview shows how the XYZ color 40.8145, 31.8170, 98.5979 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

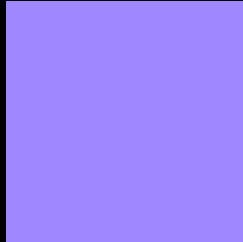
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.8145, 31.8170, 98.5979 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

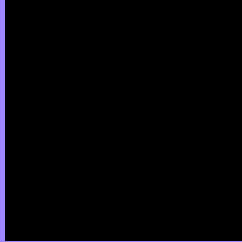
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.8145, 31.8170, 98.5979**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.8145, 31.8170, 98.5979.



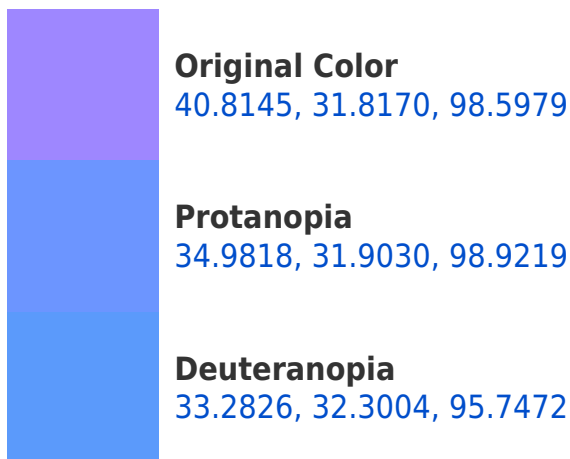
This preview shows how white text looks on a background with the XYZ color 40.8145, 31.8170,



# 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





## Tritanopia

29.2705, 31.6731, 41.6166

# Trichromacy



## Original Color

40.8145, 31.8170, 98.5979

## Protanomaly

36.6274, 31.6021, 98.7771

## Deuteranomaly

35.0746, 31.5405, 96.3348

## Tritanomaly

32.6923, 31.3697, 58.9755

# Monochromacy



## Original Color

40.8145, 31.8170, 98.5979

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

34.0090, 32.1537, 54.2830

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.8145, 31.8170, 98.5979 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(158, 135, 255)` looks like.

```
.text, #text, p{  
    color:rgb(158, 135, 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(158, 135, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 135, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 40.8145, 31.8170, 98.5979 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(158, 135, 255) }
```



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

```
.border{ border-color:rgb(158, 135, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(158, 135, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 135, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 135, 255);  
box-shadow:4px 4px 4px 4px rgb(158, 135,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.8145, 31.8170, 98.5979 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 135, 255) }
```

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

```
.background{ background-color: rgb(158,  
135, 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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