

# Converting Colors

XYZ(36.6960, 19.7465,  
125.3520)

Have a look what the booklet for  
XYZ(36.6960, 19.7465, 125.3520)  
contains.

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# Color

**XYZ(31.2478, 17.5605,  
96.3503)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8C49FF
RGB	140, 73, 255
RGB Percent	55%, 29%, 100%
CMY	0.4510, 0.7137, 0.0000
CMYK	0.45, 0.71, 0.00, 0.00
HSL	262°, 100%, 64%
HSV	262°, 71%, 100%
XYZ	31.2478, 17.5605, 96.3503
YIQ	113.7810, -18.4900, 70.8060

# Conversions

## Conversions Part 2

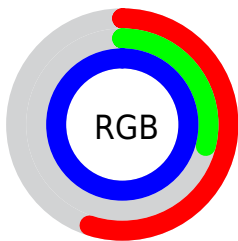
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	140, 73, 255
Decimal	9193983
CIE <sub>Lab</sub>	48.96, 65.09, -80.01
CIE <sub>LCh</sub>	49, 103.148, 309.130
Yxy	17.5605, 0.2153, 0.1210
Android (android.graphics.Color)	4287384063 (0xFF8C49FF)
YUV	113.7810, 69.6210, 22.9941
Hunter-Lab	41.9053, 59.7692, -106.9884

# Details

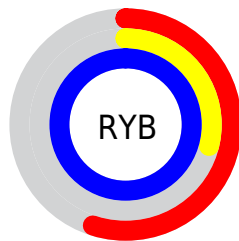
The XYZ color **31.2478, 17.5605, 96.3503** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **57.7002, 82.6916, 19.2232**, and the grayscale version is **15.7319, 16.5511, 18.0242**.

A 20% lighter version of the original color is **49.7268, 34.8163, 98.7071**, and **13.1782, 5.8071, 53.2496** is the 20% darker color. If you saturate the color by 10%, you get **27.3834, 13.5704, 95.7838**, and if you desaturate by 10%, it is **36.1976, 23.1288, 97.1642**.

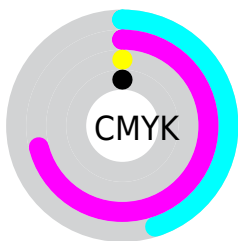
# Distribution



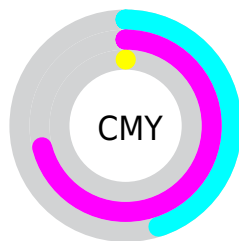
- Red (55%)
- Green (29%)
- Blue (100%)



- Red (55%)
- Yellow (29%)
- Blue (100%)



- Cyan (45%)
- Magenta (71%)
- Yellow (0%)
- Black (0%)



- Cyan (45%)
- Magenta (71%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2478, 17.5605, 96.3503 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 31.2478, 17.5605, 96.3503 by changing the saturation by 10% instead.



31.2478, 17.5605,  
96.3503

31.2478, 17.5605,  
96.3503

299.4848,  
238.3820, 569.5732

20.9404, 10.6349,  
72.6563

61.0032, 39.2870,  
158.1404

13.1926, 5.8219,  
53.2048

81.1819, 54.8567,  
197.0735

7.6392, 2.7371,  
37.5775

105.3816, 74.0765,  
241.9234

3.9148, 0.9961,  
25.3556

133.9679, 97.3309,  
293.1086

1.6541, 0.0000,  
16.1208

167.3060,  
125.0043, 351.0476

0.4273, 0.0000,  
9.4544

205.7613,

0.0000, 0.0000,

157.4810, 416.1590

4.9379

249.6991,  
195.1454, 488.8614

■ 0.0000, 0.0000,  
2.1528

■ 0.0000, 0.0000,  
0.6469

■ 31.2478, 17.5605,  
96.3503

■ 31.2478, 17.5605,  
96.3503

■ 27.3834, 13.5704,  
95.7838

■ 36.1976, 23.1288,  
97.1642

■ 24.4948, 10.9683,  
95.4338

■ 42.3212, 30.4318,  
98.2511

■ 22.6540, 9.5934,  
95.2655

■ 49.6998, 39.6081,  
99.6334

■ 58.4061, 50.7813,  
101.3312

■ 68.5066, 64.0643,  
103.3627

■ 80.0634, 79.5614,  
105.7448

■ 93.1345, 97.3699,  
108.4933

■ 95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



19.7920, 17.5605, 133.0854



31.2478, 17.5605, 96.3503



40.5405, 17.5605, 44.7914

# Triad

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



31.2478, 17.5605, 96.3503



24.1625, 17.5605, 0.0000



4.2994, 17.5605, 28.7872

# Complementary

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



31.2478, 17.5605, 96.3503



57.7002, 82.6916, 19.2232

# 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.



4.7070, 17.5605, 5.7996



31.2478, 17.5605, 96.3503



13.9316, 17.5605, 0.0000

# Square

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



31.2478, 17.5605, 96.3503



35.4785, 17.5605, 1.4044



7.5464, 17.5605, 0.3074



6.0812, 17.5605, 75.5903



# Rectangle

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



31.2478, 17.5605, 96.3503



42.7629, 17.5605, 19.9342



7.5464, 17.5605, 0.3074



4.2063, 17.5605, 18.3290

# Sweetspot

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



31.2487, 17.5610, 96.3504



68.9108, 64.6015, 103.4451



38.8378, 44.7169, 101.1920



14.1190, 12.9910, 22.0133



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.



31.2487, 17.5610, 96.3504



25.9327, 12.2068, 95.5971



53.3015, 28.9296, 97.3824



17.6346, 17.7033, 22.7376



11.9871, 5.0900, 49.7853



1.2825, 0.5551, 4.8528



# Inverse Universe

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



52.6990, 29.6556, 50.5201



49.5274, 25.5699, 42.5034



41.9208, 74.5571, 18.4848



18.4923, 18.1802, 21.2097



24.9901, 12.4853, 19.1301

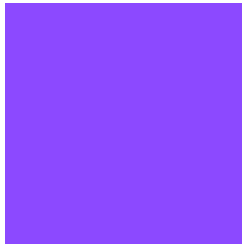


2.4859, 1.2367, 2.1402



# Previews

## White Background



This preview shows how the XYZ color 31.2478, 17.5605, 96.3503 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

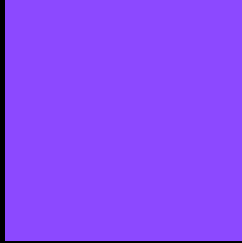
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.2478, 17.5605, 96.3503 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

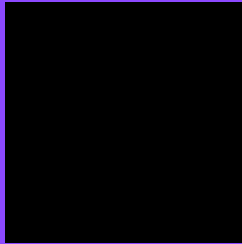
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 31.2478, 17.5605, 96.3503**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.2478, 17.5605, 96.3503.



This preview shows how white text looks on a background with the XYZ color 31.2478, 17.5605,



# 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

31.2478, 17.5605, 96.3503

### Protanopia

20.9345, 17.6445, 81.6592

### Deuteranopia

17.4959, 17.5533, 59.5927



## Tritanopia

16.3115, 17.4171, 22.2408

# Trichromacy



## Original Color

31.2478, 17.5605, 96.3503



## Protanomaly

21.9106, 15.9102, 86.7102



## Deuteranomaly

19.4359, 15.5343, 71.7861



## Tritanomaly

19.9422, 16.3176, 41.6337

# Monochromacy



## Original Color

31.2478, 17.5605, 96.3503



## Achromatopsia

15.9940, 16.8269, 18.3245



## Achromatomaly

19.4218, 15.8512, 37.6333

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.2478, 17.5605, 96.3503 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(140, 73, 255)` looks like.

```
.text, #text, p{  
    color:rgb(140, 73, 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(140, 73, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 73, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 31.2478, 17.5605, 96.3503 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(140, 73, 255) }
```



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

```
.border{ border-color:rgb(140, 73, 255) }
```

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

Here you see how a box with a 4 pixel rgb(140, 73, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 73, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 73, 255);  
box-shadow:4px 4px 4px 4px rgb(140, 73,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.2478, 17.5605, 96.3503 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 73, 255) }
```

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

```
.background{ background-color: rgb(140, 73,  
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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