

Converting Colors

XYZ(31.6232, 32.0849, 81.0021)

Have a look what the booklet for
XYZ(31.6232, 32.0849, 81.0021)
contains.

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Color

**XYZ(31.5424, 31.9782,
80.8539)**

Conversions

Conversions Part 1

Format	Color
Hex	649BE8
RGB	100, 155, 232
RGB Percent	39%, 61%, 91%
CMY	0.6078, 0.3921, 0.0902
CMYK	0.57, 0.33, 0.00, 0.09
HSL	215°, 74%, 65%
HSV	215°, 57%, 91%
XYZ	31.5424, 31.9782, 80.8539
YIQ	147.3330, -57.4970, 12.2870

Conversions

Conversions Part 2

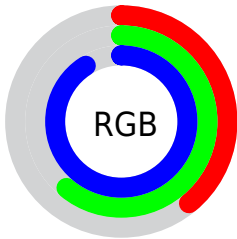
Format	Color
RYB	100, 139, 232
Decimal	6593512
CIELab	63.32, 4.25, -44.34
CIElCh	63, 44.547, 275.477
Yxy	31.9782, 0.2185, 0.2215
Android (android.graphics.Color)	4284783592 (0xFF649BE8)
YUV	147.3330, 41.7408, -41.5110
Hunter-Lab	56.5493, 0.6036, -45.1881

Details

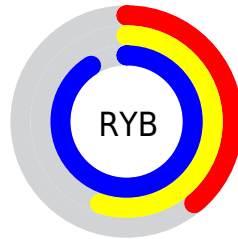
The XYZ color **31.5424, 31.9782, 80.8539** is a light color, and the websafe version is hex **3399FF**. A complement of this color would be **51.3029, 49.5228, 18.9133**, and the grayscale version is **27.7218, 29.1655, 31.7612**.

A 20% lighter version of the original color is **55.1485, 60.1919, 103.3193**, and **13.3519, 13.3265, 42.9429** is the 20% darker color. If you saturate the color by 10%, you get **27.2047, 26.5841, 80.0420**, and if you desaturate by 10%, it is **36.8654, 38.2560, 81.7857**.

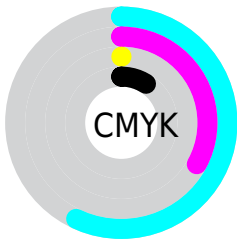
Distribution



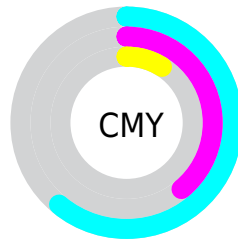
- Red (39%)
- Green (61%)
- Blue (91%)



- Red (39%)
- Yellow (55%)
- Blue (91%)



- Cyan (57%)
- Magenta (33%)
- Yellow (0%)
- Black (9%)



- Cyan (61%)
- Magenta (39%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.5424, 31.9782, 80.8539 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 31.5424, 31.9782, 80.8539 by changing the saturation by 10% instead.

■ 31.5424, 31.9782,
80.8539

■ 31.5424, 31.9782,
80.8539

300.8119,
311.0199, 517.5884

■ 21.1661, 21.3448,
59.8910

■ 61.4631, 62.7769,
136.3878

■ 13.3586, 13.3763,
42.9060

■ 81.7381, 83.7111,
171.7959

■ 7.7546, 7.6882,
29.4806

■ 106.0435,
108.8476, 212.8562

■ 3.9888, 3.8961,
19.1960

■ 134.7444,
138.5709, 259.9871

■ 1.6958, 1.6156,
11.6337

168.2064,
173.2654, 313.6072

■ 0.4536, 0.3681,
6.3753

206.7948,

■ 0.0000, 0.0000,

213.3155, 374.1351

3.0021

250.8748,
259.1055, 441.9893

■ 0.0000, 0.0000,
1.0957

■ 0.0000, 0.0000,
0.0000

■ 31.5424, 31.9782,
80.8539

■ 31.5424, 31.9782,
80.8539

■ 27.2047, 26.5841,
80.0420

■ 36.8654, 38.2560,
81.7857

■ 23.7765, 22.0209,
79.3419

■ 43.2344, 45.4590,
82.8404

■ 21.1756, 18.2336,
78.7480

■ 50.7090, 53.6298,
84.0235

■ 19.2966, 15.1542,
78.2526

■ 59.3430, 62.8067,
85.3398

■ 18.8092, 14.3134,
78.1160

■ 69.1866, 73.0261,
86.7935

■ 80.2868, 84.3221,
88.3888

■ 89.9101, 95.2952,
89.9996

■ 91.5656, 98.6062,
90.5515

Harmonies

Analogous

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



25.7254, 31.9782, 75.8514



31.5424, 31.9782, 80.8539



37.8236, 31.9782, 70.5240

Triad

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



31.5424, 31.9782, 80.8539



41.1313, 31.9782, 18.5702



20.8166, 31.9782, 22.5205

Complementary

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



31.5424, 31.9782, 80.8539



51.3029, 49.5228, 18.9133

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.



24.0077, 31.9782, 13.8116



31.5424, 31.9782, 80.8539



35.5965, 31.9782, 12.1315

Square

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



31.5424, 31.9782, 80.8539



43.8199, 31.9782, 31.6713



29.2744, 31.9782, 10.7453



20.0361, 31.9782, 38.1683

Rectangle

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



31.5424, 31.9782, 80.8539



41.2703, 31.9782, 57.8791



29.2744, 31.9782, 10.7453



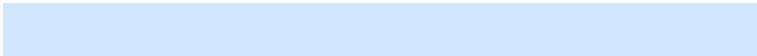
21.6196, 31.9782, 18.8772

Sweetspot

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



31.5436, 31.9793, 80.8547



73.3172, 77.5984, 105.7215



42.0493, 63.5979, 51.6562



15.2063, 16.0968, 22.5555



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.



31.5436, 31.9793, 80.8547



33.0253, 32.0566, 99.0547



25.6798, 18.3219, 78.5276



14.0737, 14.8689, 18.2725



10.5599, 8.1818, 43.4059



0.8703, 0.7845, 3.2375

Inverse Universe

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



43.7534, 28.6383, 34.2329



50.0472, 29.5624, 33.5733



60.9767, 74.0063, 23.1292



14.6248, 14.4671, 16.2246



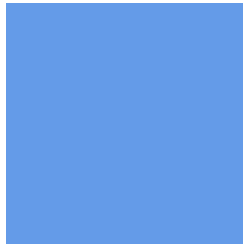
19.7236, 10.0237, 7.4396



1.5029, 0.7589, 0.7889

Previews

White Background



This preview shows how the XYZ color 31.5424, 31.9782, 80.8539 looks on a white background.

Color Contrast Check

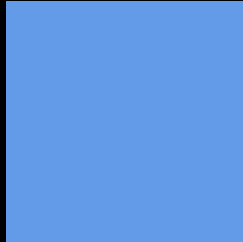
Large Text (above 18pt) WCAG AA × Fail

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 31.5424, 31.9782, 80.8539 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

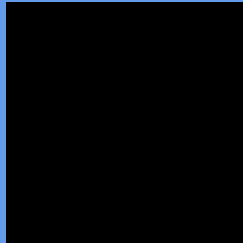
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

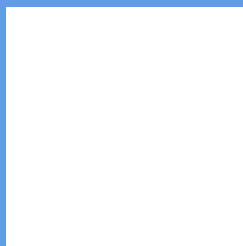
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.5424, 31.9782, 80.8539

Background



This preview shows how black text looks on a background with the XYZ color 31.5424, 31.9782, 80.8539.

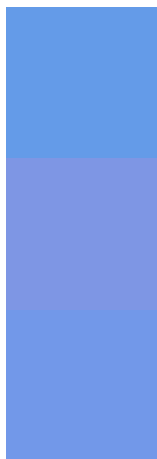


This preview shows how white text looks on a background with the XYZ color 31.5424, 31.9782,

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

31.5424, 31.9782, 80.8539

Protanopia

33.5141, 31.8497, 77.7800

Deuteranopia

32.8756, 31.9171, 81.5187



Tritanopia

24.9974, 32.1894, 47.5435

Trichromacy



Original Color

31.5424, 31.9782, 80.8539

Protanomaly

32.7072, 31.8955, 78.5613

Deuteranomaly

32.4059, 31.9169, 81.5434

Tritanomaly

27.0439, 31.9441, 58.1665

Monochromacy



Original Color

31.5424, 31.9782, 80.8539

Achromatopsia

27.7328, 29.1771, 31.7738

Achromatomaly

28.1481, 29.7729, 46.3827

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.5424, 31.9782, 80.8539 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(100, 155, 232)` looks like.

```
.text, #text, p{  
    color:rgb(100, 155, 232)  
}
```

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(100, 155, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 155, 232) }
```

Border

The CSS property to change the border of an element to XYZ 31.5424, 31.9782, 80.8539 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(100, 155, 232) }
```


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

```
.border{ border-color:rgb(100, 155, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 155, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 155, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 155, 232);  
box-shadow:4px 4px 4px 4px rgb(100, 155,  
232) }
```

Background

The CSS property to change the background color of an element to XYZ 31.5424, 31.9782, 80.8539 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 155, 232) }
```

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

```
.background{ background-color: rgb(100,  
155, 232) }
```

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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