

Converting Colors

XYZ(31.8300, 23.1975, 83.7931)

Have a look what the booklet for
XYZ(31.8300, 23.1975, 83.7931)
contains.

XYZ(31.8742, 23.2504, 83.6967)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(31.8742, 23.2504,
83.6967)**

Conversions

Conversions Part 1

Format	Color
Hex	8B70EE
RGB	139, 112, 238
RGB Percent	55%, 44%, 93%
CMY	0.4549, 0.5608, 0.0667
CMYK	0.42, 0.53, 0.00, 0.07
HSL	253°, 79%, 69%
HSV	253°, 53%, 93%
XYZ	31.8742, 23.2504, 83.6967
YIQ	134.4370, -24.3540, 44.9100

Conversions

Conversions Part 2

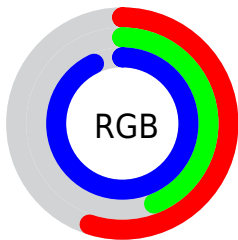
Format	Color
RYB	139, 112, 238
Decimal	9138414
CIELab	55.33, 39.93, -60.23
CIELCh	55, 72.259, 303.541
Yxy	23.2504, 0.2296, 0.1675
Android (android.graphics.Color)	4287328494 (0xFF8B70EE)
YUV	134.4370, 51.0566, 4.0018
Hunter-Lab	48.2187, 33.6120, -69.1610

Details

The XYZ color **31.8742, 23.2504, 83.6967** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **60.3631, 76.1680, 26.8503**, and the grayscale version is **22.6459, 23.8253, 25.9457**.

A 20% lighter version of the original color is **54.3514, 45.6412, 100.5528**, and **13.5113, 8.6405, 44.6717** is the 20% darker color. If you saturate the color by 10%, you get **26.7270, 17.2006, 82.8007**, and if you desaturate by 10%, it is **38.2513, 30.9648, 84.8501**.

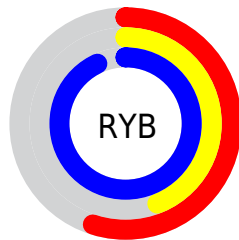
Distribution



Red (55%)

Green (44%)

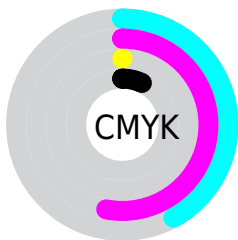
Blue (93%)



Red (55%)

Yellow (44%)

Blue (93%)

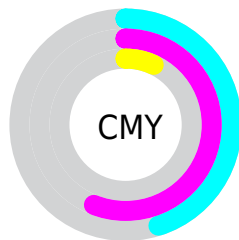


Cyan (42%)

Magenta (53%)

Yellow (0%)

Black (7%)



Cyan (45%)

Magenta (56%)

Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8742, 23.2504, 83.6967 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 31.8742, 23.2504, 83.6967 by changing the saturation by 10% instead.

■ 31.8742, 23.2504,
83.6967

■ 31.8742, 23.2504,
83.6967

302.3013,
269.0085, 527.3372

■ 21.4205, 14.7785,
62.2211

■ 61.9803, 48.8042,
140.4088

■ 13.5459, 8.6641,
44.7744

■ 82.3635, 66.6548,
176.4823

■ 7.8851, 4.5227,
30.9381

■ 106.7872, 88.4005,
218.2590

■ 4.0727, 1.9701,
20.2937

■ 135.6168,
114.4257, 266.1572

■ 1.7434, 0.5900,
12.4225

169.2177,
145.1146, 320.5956

■ 0.4832, 0.0000,
6.9061

207.9551,

■ 0.0000, 0.0000,

180.8518, 381.9927

3.3259

252.1945,
222.0217, 450.7671

■ 0.0000, 0.0000,
1.2633

■ 0.0000, 0.0000,
0.0315

■ 31.8742, 23.2504,
83.6967

■ 31.8742, 23.2504,
83.6967

■ 26.7270, 17.2006,
82.8007

■ 38.2513, 30.9648,
84.8501

■ 22.7236, 12.6871,
82.1405

■ 45.9305, 40.4542,
86.2770

■ 19.7708, 9.5662,
81.6938

■ 54.9815, 51.8221,
87.9942

■ 17.7578, 7.6647,
81.4329

■ 65.4685, 65.1633,
90.0166

■ 16.7981, 6.8770,
81.3314

■ 77.4513, 80.5662,
92.3581

■ 90.9861, 98.1139,
95.0317

■ 92.4327, 98.9531,
95.1175

Harmonies

Analogous

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



23.0751, 23.2504, 101.0782



31.8742, 23.2504, 83.6967



39.1886, 23.2504, 50.8574

Triad

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



31.8742, 23.2504, 83.6967



29.7935, 23.2504, 2.6958



9.9101, 23.2504, 28.1728

Complementary

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



31.8742, 23.2504, 83.6967



60.3631, 76.1680, 26.8503

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.



10.8789, 23.2504, 10.1842



31.8742, 23.2504, 83.6967



21.1504, 23.2504, 1.7907

Square

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



31.8742, 23.2504, 83.6967



37.7957, 23.2504, 7.7982



14.5593, 23.2504, 3.3636



11.4899, 23.2504, 58.8419

Rectangle

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



31.8742, 23.2504, 83.6967



41.4781, 23.2504, 30.6748



14.5593, 23.2504, 3.3636



9.9507, 23.2504, 20.6203

Sweetspot

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



31.8752, 23.2512, 83.6973



72.5612, 71.0934, 104.5058



45.8593, 57.1064, 89.4949



14.9823, 14.5181, 22.2626



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.



31.8752, 23.2512, 83.6973



30.5786, 19.3344, 96.7280



45.1003, 30.0690, 84.3162



15.2139, 15.3920, 19.8907



9.4597, 3.8821, 45.3786



0.8682, 0.3648, 3.7789

Inverse Universe

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



52.8122, 34.4691, 65.4970



57.9715, 34.0484, 71.2447



46.0407, 68.7845, 26.1800



16.3007, 15.9700, 19.1399



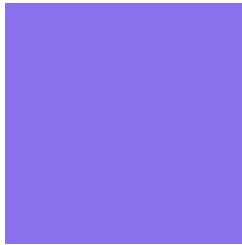
24.7250, 12.1624, 27.5320



2.0926, 1.0261, 2.4783

Previews

White Background



This preview shows how the XYZ color 31.8742, 23.2504, 83.6967 looks on a white background.

Color Contrast Check

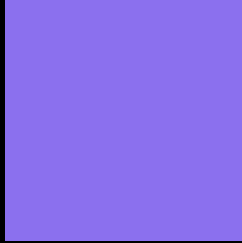
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.8742, 23.2504, 83.6967 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 31.8742, 23.2504, 83.6967

Background



This preview shows how black text looks on a background with the XYZ color 31.8742, 23.2504, 83.6967.



This preview shows how white text looks on a background with the XYZ color 31.8742, 23.2504,

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

31.8742, 23.2504, 83.6967

Protanopia

27.5728, 23.5881, 97.7075

Deuteranopia

24.2718, 23.4689, 80.3415



Tritanopia

21.1884, 23.1852, 30.5526

Trichromacy



Original Color

31.8742, 23.2504, 83.6967

Protanomaly

28.0829, 22.8333, 92.5497

Deuteranomaly

25.6807, 22.5821, 81.6025

Tritanomaly

24.1835, 22.7934, 45.7728

Monochromacy



Original Color

31.8742, 23.2504, 83.6967

Achromatopsia

22.6597, 23.8398, 25.9615

Achromatomaly

25.0606, 23.1345, 42.1743

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.8742, 23.2504, 83.6967 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(139, 112, 238)` looks like.

```
.text, #text, p{  
    color:rgb(139, 112, 238)  
}
```

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(139, 112, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(139, 112, 238) }
```

Border

The CSS property to change the border of an element to XYZ 31.8742, 23.2504, 83.6967 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(139, 112, 238) }
```


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

```
.border{ border-color:rgb(139, 112, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(139, 112, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(139, 112, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(139, 112, 238);  
box-shadow:4px 4px 4px 4px rgb(139, 112,  
238) }
```

Background

The CSS property to change the background color of an element to XYZ 31.8742, 23.2504, 83.6967 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(139, 112, 238) }
```

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

```
.background{ background-color: rgb(139,  
112, 238) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor