

Converting Colors

XYZ(31.2181, 15.8472, 83.6183)

Have a look what the booklet for
XYZ(31.2181, 15.8472, 83.6183)
contains.

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Color

**XYZ(31.2823, 15.8788,
83.8542)**

Conversions

Conversions Part 1

Format	Color
Hex	A030F0
RGB	160, 48, 240
RGB Percent	63%, 19%, 94%
CMY	0.3725, 0.8118, 0.0588
CMYK	0.33, 0.80, 0.00, 0.06
HSL	275°, 86%, 56%
HSV	275°, 80%, 94%
XYZ	31.2823, 15.8788, 83.8542
YIQ	103.3760, 5.1200, 83.4560

Conversions

Conversions Part 2

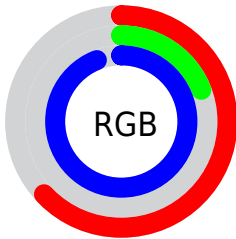
Format	Color
R _Y B	160, 48, 240
Decimal	10498288
CIE _{Lab}	46.82, 74.46, -75.02
CIE _{LCh}	47, 105.701, 314.785
Yxy	15.8788, 0.2388, 0.1212
Android (android.graphics.Color)	4288688368 (0xFFA030F0)
YUV	103.3760, 67.3556, 49.6592
Hunter-Lab	39.8482, 70.3946, -96.8726

Details

The XYZ color **31.2823, 15.8788, 83.8542** 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 **40.5958, 67.1230, 13.6130**, and the grayscale version is **12.8187, 13.4863, 14.6866**.

A 20% lighter version of the original color is **52.9278, 33.1608, 98.2188**, and **13.8028, 6.1282, 45.2551** is the 20% darker color. If you saturate the color by 10%, you get **28.6332, 13.4290, 83.5213**, and if you desaturate by 10%, it is **34.6240, 19.4727, 84.3721**.

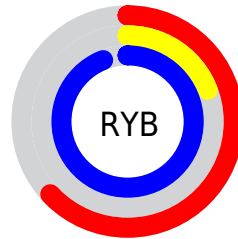
Distribution



Red (63%)

Green (19%)

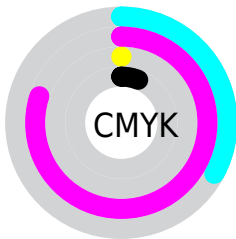
Blue (94%)



Red (63%)

Yellow (19%)

Blue (94%)

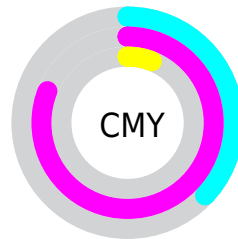


Cyan (33%)

Magenta (80%)

Yellow (0%)

Black (6%)



Cyan (37%)


Magenta (81%)


Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2823, 15.8788, 83.8542 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 31.2823, 15.8788, 83.8542 by changing the saturation by 10% instead.


 31.2823, 15.8788,
83.8542


 31.2823, 15.8788,
83.8542


299.6405,
228.6255, 527.8743

 20.9668, 9.4384,
62.3504


 61.0571, 36.3877,
140.6311

 13.2120, 5.0282,
44.8783


 81.2470, 51.2250,
176.7413


 7.6527, 2.2638,
31.0193


 105.4592, 69.6300,
218.5573

 3.9235, 0.7545,
20.3550

 134.0589, 91.9872,
266.4978

 1.6589, 0.0000,
12.4667

 167.4116,
118.6810, 320.9811

 0.4304, 0.0000,
6.9360

205.8825,

 0.0000, 0.0000,

150.0957, 382.4260

3.3442

249.8370,
186.6157, 451.2509

■ 0.0000, 0.0000,
1.2730

■ 0.0000, 0.0000,
0.0395

■ 31.2823, 15.8788,
83.8542

■ 31.2823, 15.8788,
83.8542

■ 28.6332, 13.4290,
83.5213

■ 34.6240, 19.4727,
84.3721

■ 26.5441, 11.8671,
83.3299

■ 38.7344, 24.3612,
85.0990

■ 26.5439, 11.8670,
83.3299

■ 43.6809, 30.6724,
86.0565

■ 49.5220, 38.5183,
87.2631

■ 56.3103, 47.9995,
88.7353

■ 64.0943, 59.2078,
90.4885

■ 72.9185, 72.2278,
92.5365

■ 82.8249, 87.1387,
94.8925

■ 90.9130, 98.1355,
96.5888

Harmonies

Analogous

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



20.0674, 15.8788, 126.9534



31.2823, 15.8788, 83.8542



39.3806, 15.8788, 34.2682

Triad

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



31.2823, 15.8788, 83.8542



20.2227, 15.8788, 0.0000



3.6412, 15.8788, 33.6923

Complementary

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



31.2823, 15.8788, 83.8542



40.5958, 67.1230, 13.6130

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.



3.6545, 15.8788, 7.1163



31.2823, 15.8788, 83.8542



11.0160, 15.8788, 0.0000

Square

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



31.2823, 15.8788, 83.8542



31.4351, 15.8788, 0.4373



5.7511, 15.8788, 0.3981



5.7019, 15.8788, 83.0868

Rectangle

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



31.2823, 15.8788, 83.8542



40.4477, 15.8788, 13.4010



5.7511, 15.8788, 0.3981



3.4420, 15.8788, 21.8652

Sweetspot

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



31.2831, 15.8793, 83.8546



69.7704, 62.4551, 102.9855



24.6667, 22.3585, 85.4539



14.2581, 12.3975, 21.8914



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.



31.2831, 15.8793, 83.8546



31.2980, 14.2140, 95.7017



50.4470, 26.0213, 72.8852



15.7808, 15.6842, 19.9172



14.6855, 6.5761, 45.6232



1.3347, 0.6053, 3.8007

Inverse Universe

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



40.8886, 22.1980, 22.5516



44.2864, 22.6557, 17.4258



33.3047, 63.3190, 15.3173



16.0460, 15.8681, 17.7982



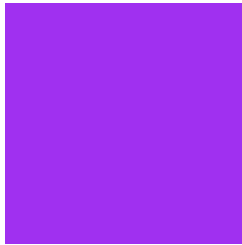
20.9934, 10.6698, 7.8816



1.7949, 0.9070, 0.9109

Previews

White Background



This preview shows how the XYZ color 31.2823, 15.8788, 83.8542 looks on a white background.

Color Contrast Check

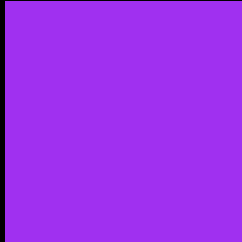
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.2823, 15.8788, 83.8542 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

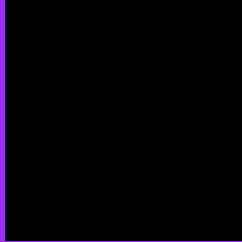
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 31.2823, 15.8788, 83.8542

Background



This preview shows how black text looks on a background with the XYZ color 31.2823, 15.8788, 83.8542.



This preview shows how white text looks on a background with the XYZ color 31.2823, 15.8788,

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

31.2823, 15.8788, 83.8542

Protanopia

18.9852, 16.0064, 74.0404

Deuteranopia

15.9811, 16.0201, 54.4745



Tritanopia

17.6650, 15.8411, 16.5946

Trichromacy



Original Color

31.2823, 15.8788, 83.8542



Protanomaly

19.4965, 13.3246, 77.1456



Deuteranomaly

17.2848, 12.9653, 63.8789



Tritanomaly

20.7802, 14.4887, 33.5996

Monochromacy



Original Color

31.2823, 15.8788, 83.8542



Achromatopsia

12.8919, 13.5633, 14.7705



Achromatomaly

17.1552, 12.7715, 31.6980

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2823, 15.8788, 83.8542 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(160, 48, 240)` looks like.

```
.text, #text, p{  
    color:rgb(160, 48, 240)  
}
```

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(160, 48, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(160, 48, 240) }
```

Border

The CSS property to change the border of an element to XYZ 31.2823, 15.8788, 83.8542 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(160, 48, 240) }
```


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

```
.border{ border-color:rgb(160, 48, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(160, 48, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(160, 48, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(160, 48, 240);  
box-shadow:4px 4px 4px 4px rgb(160, 48,  
240) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2823, 15.8788, 83.8542 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(160, 48, 240) }
```

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

```
.background{ background-color: rgb(160, 48,  
240) }
```

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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