

Converting Colors

XYZ(31.3423, 16.7086, 80.1765)

Have a look what the booklet for
XYZ(31.3423, 16.7086, 80.1765)
contains.

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Color

**XYZ(31.4087, 16.7057,
80.1664)**

Conversions

Conversions Part 1

Format	Color
Hex	A23AEB
RGB	162, 58, 235
RGB Percent	64%, 23%, 92%
CMY	0.3647, 0.7725, 0.0784
CMYK	0.31, 0.75, 0.00, 0.08
HSL	275°, 82%, 57%
HSV	275°, 75%, 92%
XYZ	31.4087, 16.7057, 80.1664
YIQ	109.2740, 5.1670, 77.0950

Conversions

Conversions Part 2

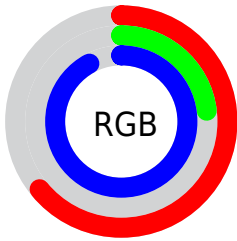
Format	Color
R _Y B	162, 58, 235
Decimal	10631915
CIE Lab	47.89, 70.30, -70.45
CIE LCh	48, 99.525, 314.943
Yxy	16.7057, 0.2448, 0.1302
Android (android.graphics.Color)	4288821995 (0xFFA23AEB)
YUV	109.2740, 61.9829, 46.2407
Hunter-Lab	40.8726, 65.6419, -87.6789

Details

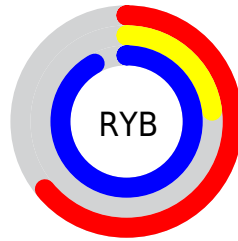
The XYZ color **31.4087, 16.7057, 80.1664** is a light color, and the websafe version is hex **9900CC**. The color can be described as light washed purple. A complement of this color would be **39.8325, 64.5478, 14.3630**, and the grayscale version is **14.4430, 15.1951, 16.5475**.

A 20% lighter version of the original color is **54.3049, 35.0111, 98.5034**, and **13.6294, 6.0979, 42.5781** is the 20% darker color. If you saturate the color by 10%, you get **28.5891, 13.8766, 79.7693**, and if you desaturate by 10%, it is **34.9218, 20.6943, 80.7514**.

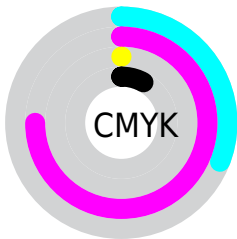
Distribution



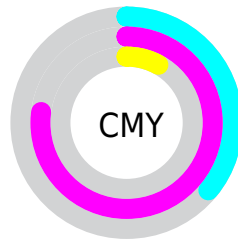
- Red (64%)
- Green (23%)
- Blue (92%)



- Red (64%)
- Yellow (23%)
- Blue (92%)



- Cyan (31%)
- Magenta (75%)
- Yellow (0%)
- Black (8%)





- Cyan (36%)
- Magenta (77%)
- Yellow (8%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.4087, 16.7057, 80.1664 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 31.4087, 16.7057, 80.1664 by changing the saturation by 10% instead.


 31.4087, 16.7057,
80.1664


 31.4087, 16.7057,
80.1664


300.2102,
233.4707, 515.2150

 21.0636, 10.0249,
59.3283


 61.2544, 37.8191,
135.4132

 13.2832, 5.4155,
42.4557


 81.4858, 53.0204,
170.6589


 7.7022, 2.4930,
29.1301

 105.7433, 71.8307,
211.5443

 3.9552, 0.8731,
18.9328

 134.3923, 94.6344,
258.4879

 1.6768, 0.0000,
11.4454

 167.7981,
121.8159, 311.9083

 0.4417, 0.0000,
6.2493

206.3261,

 0.0000, 0.0000,

153.7595, 372.2239

2.9261

250.3417,
190.8496, 439.8532

■ 0.0000, 0.0000,
1.0570

■ 0.0000, 0.0000,
0.0000

■ 31.4087, 16.7057,
80.1664

■ 31.4087, 16.7057,
80.1664

■ 28.5891, 13.8766,
79.7693

■ 34.9218, 20.6943,
80.7514

■ 26.3770, 12.0433,
79.5320

■ 39.1942, 25.9725,
81.5451

■ 25.4901, 11.4084,
79.4562

■ 44.2861, 32.6547,
82.5665

■ 50.2500, 40.8414,
83.8324

57.1338, 50.6240,
85.3578

64.9816, 62.0863,
87.1566

73.8345, 75.3061,
89.2417

83.7309, 90.3564,
91.6251

89.9045, 97.7003,
92.7172

Harmonies

Analogous

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



20.7440, 16.7057, 119.5174



31.4087, 16.7057, 80.1664



38.9805, 16.7057, 34.2405

Triad

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



31.4087, 16.7057, 80.1664



20.7839, 16.7057, 0.0000



4.3768, 16.7057, 34.0951

Complementary

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



31.4087, 16.7057, 80.1664



39.8325, 64.5478, 14.3630

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.



4.3806, 16.7057, 8.1521



31.4087, 16.7057, 80.1664



11.8400, 16.7057, 0.0000

Square

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



31.4087, 16.7057, 80.1664



31.4472, 16.7057, 0.8571



6.5575, 16.7057, 0.8472



6.5440, 16.7057, 79.9785

Rectangle

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



31.4087, 16.7057, 80.1664



39.9475, 16.7057, 14.2638



6.5575, 16.7057, 0.8472



4.1610, 16.7057, 22.7769

Sweetspot

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



31.4095, 16.7063, 80.1668



70.7631, 63.8155, 103.1957



24.9582, 23.3332, 81.7859



14.4546, 12.6610, 21.9319



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.



31.4095, 16.7063, 80.1668



32.9755, 15.4464, 95.8512



48.7258, 25.8693, 70.3095



15.0795, 14.9862, 19.0201



14.3349, 6.4258, 44.2277



1.2345, 0.5607, 3.4780

Inverse Universe

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



39.8711, 22.3274, 23.6812



44.9977, 23.3366, 19.9501



32.6480, 60.7943, 16.2742



15.3231, 15.1571, 16.9865



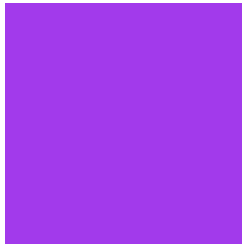
20.3265, 10.3333, 7.5206



1.6429, 0.8301, 0.8370

Previews

White Background



This preview shows how the XYZ color 31.4087, 16.7057, 80.1664 looks on a white background.

Color Contrast Check

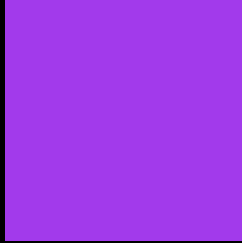
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.4087, 16.7057, 80.1664 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

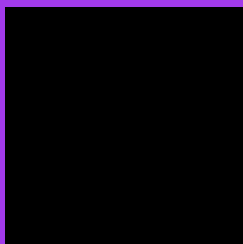
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 31.4087, 16.7057, 80.1664

Background



This preview shows how black text looks on a background with the XYZ color 31.4087, 16.7057, 80.1664.



This preview shows how white text looks on a background with the XYZ color 31.4087, 16.7057,

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

31.4087, 16.7057, 80.1664

Protanopia

20.1414, 16.9781, 78.5595

Deuteranopia

16.9061, 16.7551, 58.2201



Tritanopia

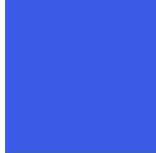
18.6902, 16.6459, 17.5571

Trichromacy



Original Color

31.4087, 16.7057, 80.1664



Protanomaly

20.2527, 14.2952, 78.7826



Deuteranomaly

18.0334, 13.9693, 65.3642



Tritanomaly

21.7067, 15.5466, 33.7550

Monochromacy



Original Color

31.4087, 16.7057, 80.1664



Achromatopsia

14.5356, 15.2926, 16.6537



Achromatomaly

18.4746, 14.2681, 32.7906

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.4087, 16.7057, 80.1664 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(162, 58, 235)` looks like.

```
.text, #text, p{  
    color:rgb(162, 58, 235)  
}
```

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(162, 58, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 58, 235) }
```

Border

The CSS property to change the border of an element to XYZ 31.4087, 16.7057, 80.1664 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(162, 58, 235) }
```


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

```
.border{ border-color:rgb(162, 58, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 58, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(162, 58, 235); -webkit-box-shadow:4px 4px 4px 4px rgb(162, 58, 235); box-shadow:4px 4px 4px 4px rgb(162, 58, 235) }
```

Background

The CSS property to change the background color of an element to XYZ 31.4087, 16.7057, 80.1664 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 58, 235) }
```

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

```
.background{ background-color: rgb(162, 58,  
235) }
```

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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