

Converting Colors

XYZ(31.6600, 20.1888, 67.8193)

Have a look what the booklet for
XYZ(31.6600, 20.1888, 67.8193)
contains.

XYZ(31.6138, 20.1538, 67.8695)	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(31.6138, 20.1538,
67.8695)**

Conversions

Conversions Part 1

Format	Color
Hex	A559D9
RGB	165, 89, 217
RGB Percent	65%, 35%, 85%
CMY	0.3529, 0.6510, 0.1490
CMYK	0.24, 0.59, 0.00, 0.15
HSL	276°, 63%, 60%
HSV	276°, 59%, 85%
XYZ	31.6138, 20.1538, 67.8695
YIQ	126.3160, 4.2080, 55.9200

Conversions

Conversions Part 2

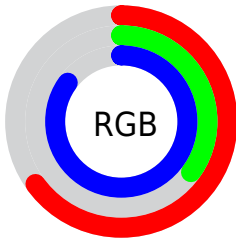
Format	Color
RYB	165, 89, 217
Decimal	10836441
CIELab	52.01, 53.28, -53.58
CIELCh	52, 75.566, 314.837
Yxy	20.1538, 0.2642, 0.1685
Android (android.graphics.Color)	4289026521 (0xFFA559D9)
YUV	126.3160, 44.7072, 33.9259
Hunter-Lab	44.8930, 47.1376, -58.2099

Details

The XYZ color **31.6138, 20.1538, 67.8695** is a light color, and the websafe version is hex **9966CC**. The color can be described as light muted purple. A complement of this color would be **37.6009, 56.0101, 18.2810**, and the grayscale version is **19.7910, 20.8216, 22.6748**.

A 20% lighter version of the original color is **58.1544, 42.2540, 99.6985**, and **13.3706, 7.0862, 34.3813** is the 20% darker color. If you saturate the color by 10%, you get **28.2962, 16.1468, 67.2713**, and if you desaturate by 10%, it is **35.5915, 25.2917, 68.6519**.

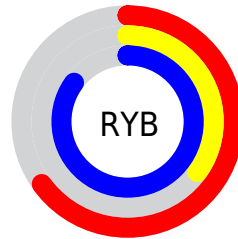
Distribution



Red (65%)

Green (35%)

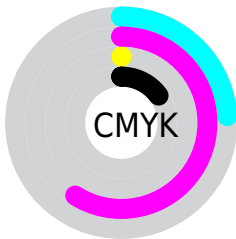
Blue (85%)



Red (65%)

Yellow (35%)

Blue (85%)

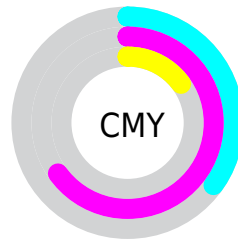


Cyan (24%)

Magenta (59%)

Yellow (0%)

Black (15%)



Cyan (35%)

Magenta (65%)

Yellow (15%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6138, 20.1538, 67.8695 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 31.6138, 20.1538, 67.8695 by changing the saturation by 10% instead.

31.6138, 20.1538,
67.8695

31.6138, 20.1538,
67.8695

301.1328,
252.7465, 471.6190

21.2208, 12.5069,
49.3255

61.5744, 43.6749,
117.8179

13.3989, 7.0899,
34.5104

81.8728, 60.3179,
150.0594

7.7827, 3.5184,
23.0054

106.2037, 80.7283,
187.7038

4.0068, 1.4080,
14.3922

134.9324,
105.2906, 231.1698

1.7060, 0.2226,
8.2521

168.4243,
134.3892, 280.8757

0.4600, 0.0000,
4.1666

207.0448,

0.0000, 0.0000,

168.4085, 337.2402

1.7172

251.1592,
207.7328, 400.6818

■ 0.0000, 0.0000,
0.3725

■ 0.0000, 0.0000,
0.0000

■ 31.6138, 20.1538,
67.8695

■ 31.6138, 20.1538,
67.8695

■ 28.2962, 16.1468,
67.2713

■ 35.5915, 25.2917,
68.6519

■ 25.5854, 13.1703,
66.8396

■ 40.2718, 31.6441,
69.6314

■ 23.4226, 11.1099,
66.5559

■ 45.6960, 39.2896,
70.8212

■ 21.7146, 9.7829,
66.3898

■ 51.9012, 48.2990,
72.2332

■ 21.5544, 9.6649,
66.3755

■ 58.9222, 58.7380,
73.8781

■ 66.7911, 70.6680,
75.7660

■ 75.5384, 84.1468,
77.9067

■ 82.7194, 94.2816,
79.4844

■ 85.7113, 95.8240,
79.6244

Harmonies

Analogous

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



23.2048, 20.1538, 93.8057



31.6138, 20.1538, 67.8695



37.3055, 20.1538, 35.0163

Triad

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



31.6138, 20.1538, 67.8695



23.2974, 20.1538, 1.1852



8.1079, 20.1538, 34.6991

Complementary

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



31.6138, 20.1538, 67.8695



37.6009, 56.0101, 18.2810

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.



8.1201, 20.1538, 12.6127



31.6138, 20.1538, 67.8695



15.6072, 20.1538, 1.1763

Square

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



31.6138, 20.1538, 67.8695



31.6971, 20.1538, 3.5643



10.4941, 20.1538, 3.5138



10.4543, 20.1538, 67.5080

Rectangle

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



31.6138, 20.1538, 67.8695



38.0322, 20.1538, 18.5576



10.4941, 20.1538, 3.5138



7.8617, 20.1538, 25.7193

Sweetspot

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



31.6146, 20.1546, 67.8700



75.5846, 70.7635, 104.2827



26.3675, 26.5796, 69.3867



15.5845, 14.2748, 22.1839



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.



31.6146, 20.1546, 67.8700



39.6572, 21.9892, 96.7619



43.3692, 26.3695, 61.4095



13.0762, 12.9974, 16.4717



13.1703, 5.9137, 40.1857



0.9499, 0.4330, 2.6079

Inverse Universe

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



36.9958, 23.8201, 27.8473



48.9912, 28.2732, 30.6850



31.2173, 52.6637, 20.4926



13.2742, 13.1388, 14.7051



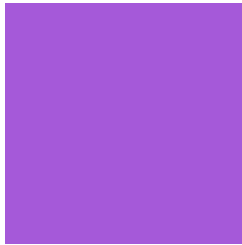
18.4417, 9.3777, 6.7059



1.2368, 0.6243, 0.6557

Previews

White Background



This preview shows how the XYZ color 31.6138, 20.1538, 67.8695 looks on a white background.

Color Contrast Check

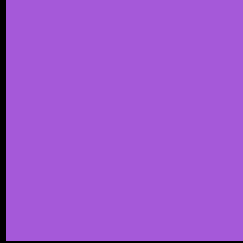
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.6138, 20.1538, 67.8695 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

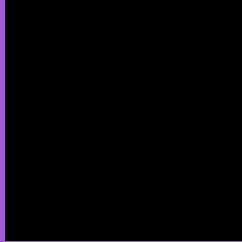
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 31.6138, 20.1538, 67.8695

Background



This preview shows how black text looks on a background with the XYZ color 31.6138, 20.1538, 67.8695.



This preview shows how white text looks on a background with the XYZ color 31.6138, 20.1538,

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

31.6138, 20.1538, 67.8695

Protanopia

24.5783, 20.6658, 92.3160

Deuteranopia

21.0808, 20.4104, 63.8013



Tritanopia

22.1633, 20.1063, 21.7815

Trichromacy



Original Color

31.6138, 20.1538, 67.8695



Protanomaly

24.4109, 18.9365, 82.4893



Deuteranomaly

23.1712, 19.1591, 65.4276



Tritanomaly

24.8432, 19.7453, 34.8496

Monochromacy



Original Color

31.6138, 20.1538, 67.8695



Achromatopsia

19.8309, 20.8637, 22.7206



Achromatomaly

22.9784, 19.8889, 35.4287

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.6138, 20.1538, 67.8695 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(165, 89, 217)` looks like.

```
.text, #text, p{  
    color:rgb(165, 89, 217)  
}
```

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(165, 89, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 89, 217) }
```

Border

The CSS property to change the border of an element to XYZ 31.6138, 20.1538, 67.8695 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(165, 89, 217) }
```


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

```
.border{ border-color:rgb(165, 89, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 89, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 89, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 89, 217);  
box-shadow:4px 4px 4px 4px rgb(165, 89,  
217) }
```

Background

The CSS property to change the background color of an element to XYZ 31.6138, 20.1538, 67.8695 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 89, 217) }
```

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

```
.background{ background-color: rgb(165, 89,  
217) }
```

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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