

Converting Colors

XYZ(18.8122, 9.9976, 4.6993)

Have a look what the booklet for
XYZ(18.8122, 9.9976, 4.6993)
contains.

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Color

**XYZ(18.8685, 10.0159,
4.6802)**

Conversions

Conversions Part 1

Format	Color
Hex	B01438
RGB	176, 20, 56
RGB Percent	69%, 8%, 22%
CMY	0.3098, 0.9215, 0.7804
CMYK	0.00, 0.89, 0.68, 0.31
HSL	346°, 80%, 38%
HSV	346°, 89%, 69%
XYZ	18.8685, 10.0159, 4.6802
YIQ	70.7480, 81.4200, 44.2680

Conversions

Conversions Part 2

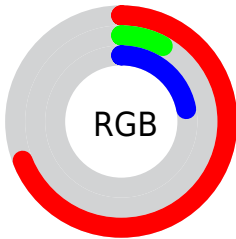
Format	Color
R _Y B	176, 20, 56
Decimal	11539512
CIE Lab	37.87, 59.48, 22.82
CIE LCh	38, 63.703, 20.993
Yxy	10.0159, 0.5622, 0.2984
Android (android.graphics.Color)	4289729592 (0xFFB01438)
YUV	70.7480, -7.2708, 92.3060
Hunter-Lab	31.6479, 51.0380, 13.3855

Details

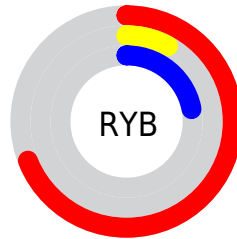
The XYZ color **18.8685, 10.0159, 4.6802** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **20.5489, 33.0934, 30.1217**, and the grayscale version is **5.9503, 6.2601, 6.8173**.

A 20% lighter version of the original color is **41.0359, 25.8120, 15.6513**, and **7.1495, 3.6765, 0.7483** is the 20% darker color. If you saturate the color by 10%, you get **18.3569, 9.4530, 3.0911**, and if you desaturate by 10%, it is **19.6764, 11.0283, 6.8102**.

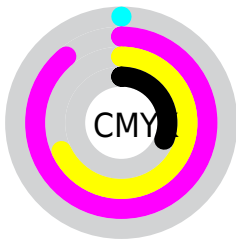
Distribution



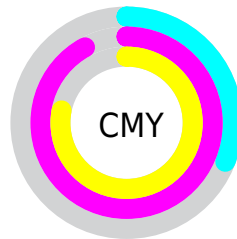
- Red (69%)
- Green (8%)
- Blue (22%)



- Red (69%)
- Yellow (8%)
- Blue (22%)



- Cyan (0%)
- Magenta (89%)
- Yellow (68%)
- Black (31%)



- Cyan (31%)
- Magenta (92%)
- Yellow (78%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8685, 10.0159, 4.6802 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 18.8685, 10.0159, 4.6802 by changing the saturation by 10% instead.

■ 18.8685, 10.0159,
4.6802

■ 18.8685, 10.0159,
4.6802

238.6739,
190.7855, 155.5098

■ 11.6787, 5.4095,
2.0054

■ 41.0304, 25.8254,
15.5504

■ 6.5960, 2.4895,
0.5586

■ 56.7332, 37.7973,
24.5829

■ 3.2548, 0.8714,
0.0000

■ 76.0044, 52.9931,
36.5717

■ 1.2899, 0.0000,
0.0000

■ 99.2094, 71.7973,
51.9354

■ 0.1756, 0.0000,
0.0000

■ 126.7135, 94.5943,
71.0926

■ 0.0000, 0.0000,
0.0000

■ 158.8820,

121.7684, 94.4616

196.0804,
153.7040, 122.4612

■ 18.8685, 10.0159,
4.6802

■ 18.8685, 10.0159,
4.6802

■ 18.3569, 9.4530,
3.0911

■ 19.6764, 11.0283,
6.8102

■ 18.2978, 9.3874,
2.9091

■ 20.8454, 12.6089,
9.5349

■ 22.4150, 14.8271,
12.8971

■ 24.4191, 17.7422,
16.9351

■ 26.8879, 21.4064,
21.6841

■ 29.8489, 25.8669,
27.1767

■ 33.3275, 31.1673,
33.4436

■ 37.3470, 37.3476,
40.5137

■ 41.9296, 44.4456,
48.4142

Harmonies

Analogous

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



19.5445, 10.0159, 14.8094



18.8685, 10.0159, 4.6802



15.3520, 10.0159, 1.1110

Triad

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



18.8685, 10.0159, 4.6802



4.6371, 10.0159, 2.0017



8.3451, 10.0159, 51.4710

Complementary

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



18.8685, 10.0159, 4.6802



20.5489, 33.0934, 30.1217

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.



5.3908, 10.0159, 39.2864



18.8685, 10.0159, 4.6802



3.6888, 10.0159, 7.7563

Square

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



18.8685, 10.0159, 4.6802



6.9797, 10.0159, 0.4069



3.9184, 10.0159, 21.0815



12.6117, 10.0159, 48.1338

Rectangle

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



18.8685, 10.0159, 4.6802



12.3064, 10.0159, 0.3541



3.9184, 10.0159, 21.0815



7.1892, 10.0159, 48.8529

Sweetspot

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



18.8687, 10.0165, 4.6803



54.8157, 47.9446, 50.5289



18.8355, 9.1766, 41.8527



11.4639, 9.7609, 10.1901



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



18.8687, 10.0165, 4.6803



33.1142, 16.9969, 4.8968



19.7325, 12.6839, 2.0708



8.5740, 8.5363, 9.2552



13.4447, 6.8954, 2.2356



0.4456, 0.2260, 0.1891

Inverse Universe

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



18.8687, 10.0165, 4.6803



33.1142, 16.9969, 4.8968



16.7064, 20.4457, 44.1401



8.5740, 8.5363, 9.2552



13.4447, 6.8954, 2.2356



0.4456, 0.2260, 0.1891

Previews

White Background



This preview shows how the XYZ color 18.8685, 10.0159, 4.6802 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 18.8685, 10.0159, 4.6802 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

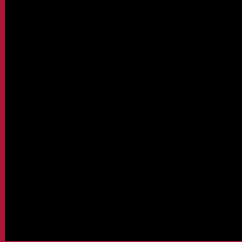
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 18.8685, 10.0159, 4.6802

Background



This preview shows how black text looks on a background with the XYZ color 18.8685, 10.0159, 4.6802.



This preview shows how white text looks on a background with the XYZ color 18.8685, 10.0159,

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

18.8685, 10.0159, 4.6802

Protanopia

9.9456, 10.5091, 9.2889

Deuteranopia

10.4972, 10.4093, 4.2522



Tritanopia

18.2923, 10.0236, 2.0075

Trichromacy



Original Color

18.8685, 10.0159, 4.6802

Protanomaly

11.3722, 8.5336, 7.1787

Deuteranomaly

12.3667, 8.9449, 4.2067

Tritanomaly

18.3767, 9.9492, 2.7855

Monochromacy



Original Color

18.8685, 10.0159, 4.6802

Achromatopsia

5.9891, 6.3010, 6.8618

Achromatomaly

8.5180, 6.1005, 5.8828

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.8685, 10.0159, 4.6802 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(176, 20, 56)` looks like.

```
.text, #text, p{  
  color:rgb(176, 20, 56)  
}
```

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(176, 20, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 20, 56) }
```

Border

The CSS property to change the border of an element to XYZ 18.8685, 10.0159, 4.6802 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(176, 20, 56) }
```


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

```
.border{ border-color:rgb(176, 20, 56) }
```

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

Here you see how a box with a 4 pixel rgb(176, 20, 56) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 20, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 20, 56);  
box-shadow:4px 4px 4px 4px rgb(176, 20,  
56) }
```

Background

The CSS property to change the background color of an element to XYZ 18.8685, 10.0159, 4.6802 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 20, 56) }
```

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

```
.background{ background-color: rgb(176, 20,  
56) }
```

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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