

# Converting Colors

XYZ(19.4543, 9.9844, 2.9280)

Have a look what the booklet for  
XYZ(19.4543, 9.9844, 2.9280)  
contains.

<b>XYZ(19.4391, 9.9770, 2.9087)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(19.4391, 9.9770,  
2.9087)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B50028
RGB	181, 0, 40
RGB Percent	71%, 0%, 16%
CMY	0.2902, 0.9999, 0.8431
CMYK	0.00, 1.00, 0.78, 0.29
HSL	347°, 100%, 35%
HSV	347°, 100%, 71%
XYZ	19.4391, 9.9770, 2.9087
YIQ	58.6790, 95.0360, 50.8120

# Conversions

## Conversions Part 2

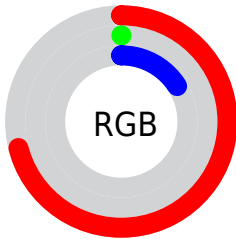
<b>Format</b>	<b>Color</b>
<b>RYB</b>	181, 0, 40
Decimal	11862056
CIELab	37.80, 62.69, 32.97
CIElCh	38, 70.830, 27.744
Yxy	9.9770, 0.6014, 0.3086
Android (android.graphics.Color)	4290052136 (0xFFB50028)
YUV	58.6790, -9.2087, 107.2755
Hunter-Lab	31.5864, 54.5774, 16.6506

# Details

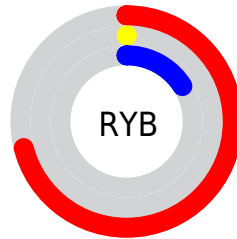
The XYZ color **19.4391, 9.9770, 2.9087** is a dark color, and the websafe version is hex **CC0033**. A complement of this color would be **21.3344, 34.9718, 30.8379**, and the grayscale version is **4.1188, 4.3333, 4.7190**.

A 20% lighter version of the original color is **41.8166, 25.6263, 11.3367**, and **7.6077, 3.9219, 0.3560** is the 20% darker color. If you saturate the color by 10%, you get **19.4385, 9.9767, 2.9064**, and if you desaturate by 10%, it is **19.9427, 10.5280, 4.4837**.

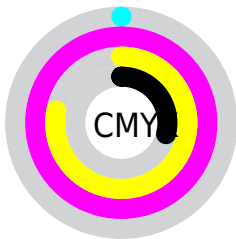
# Distribution



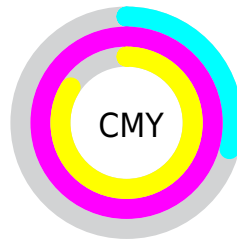
- Red (71%)
- Green (0%)
- Blue (16%)



- Red (71%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (78%)
- Black (29%)




- Cyan (29%)
- Magenta (100%)
- Yellow (84%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.4391, 9.9770, 2.9087 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 19.4391, 9.9770, 2.9087 by changing the saturation by 10% instead.





 19.4391, 9.9770,  
2.9087


 19.4391, 9.9770,  
2.9087


241.7541,  
190.5078, 135.1892


 12.0939, 5.3837,  
1.0482


 41.9859, 25.7522,  
11.4023

 6.8803, 2.4741,  
0.0000


 57.9182, 37.7030,  
18.8725


 3.4330, 0.8636,  
0.0000

 77.4436, 52.8750,  
29.0497

 1.3867, 0.0000,  
0.0000

 100.9274, 71.6526,  
42.3524

 0.2467, 0.0000,  
0.0000

 128.7350, 94.4204,  
59.1991

 0.0000, 0.0000,  
0.0000

 161.2318,

121.5625, 80.0085

198.7830,  
153.4636, 105.1990

19.4391, 9.9770,  
2.9087

19.4391, 9.9770,  
2.9087

19.4385, 9.9767,  
2.9064

19.9427, 10.5280,  
4.4837

20.7436, 11.5195,  
6.6320

21.9254, 13.1071,  
9.4186

23.5317, 15.3668,  
12.8915

25.5998, 18.3634,  
17.0940

■ 28.1627, 22.1538,  
22.0653

■ 31.2506, 26.7895,  
27.8421

■ 34.8909, 32.3176,  
34.4584

■ 39.1093, 38.7816,  
41.9463

# Harmonies

## Analogous

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



21.0846, 9.9770, 11.8725



19.4391, 9.9770, 2.9087



14.9172, 9.9770, 0.3688

# Triad

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



19.4391, 9.9770, 2.9087



3.8693, 9.9770, 2.2593



9.1449, 9.9770, 59.5263

# Complementary

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



19.4391, 9.9770, 2.9087



21.3344, 34.9718, 30.8379

# 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.



5.5603, 9.9770, 48.4221



19.4391, 9.9770, 2.9087



3.1807, 9.9770, 9.9129

# Square

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



19.4391, 9.9770, 2.9087



5.9857, 9.9770, 0.1739



3.6842, 9.9770, 27.0536



14.1302, 9.9770, 51.1238



# Rectangle

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



19.4391, 9.9770, 2.9087



11.4495, 9.9770, 0.0000



3.6842, 9.9770, 27.0536



7.7553, 9.9770, 57.8397

# Sweetspot

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



19.4393, 9.9776, 2.9088



55.6580, 47.5095, 49.2906



18.9506, 8.8065, 44.4168



11.5133, 9.4910, 9.6946



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



19.4393, 9.9776, 2.9088



34.7446, 17.8404, 4.8389



20.1250, 11.9616, 1.2491



8.5707, 8.5350, 9.2375



13.4226, 6.8866, 2.1194



0.4442, 0.2254, 0.1818



# Inverse Universe

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



19.4393, 9.9776, 2.9088



34.7446, 17.8404, 4.8389



16.6931, 20.0409, 46.7043



8.5707, 8.5350, 9.2375



13.4226, 6.8866, 2.1194



0.4442, 0.2254, 0.1818



# Previews

## White Background



This preview shows how the XYZ color 19.4391, 9.9770, 2.9087 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

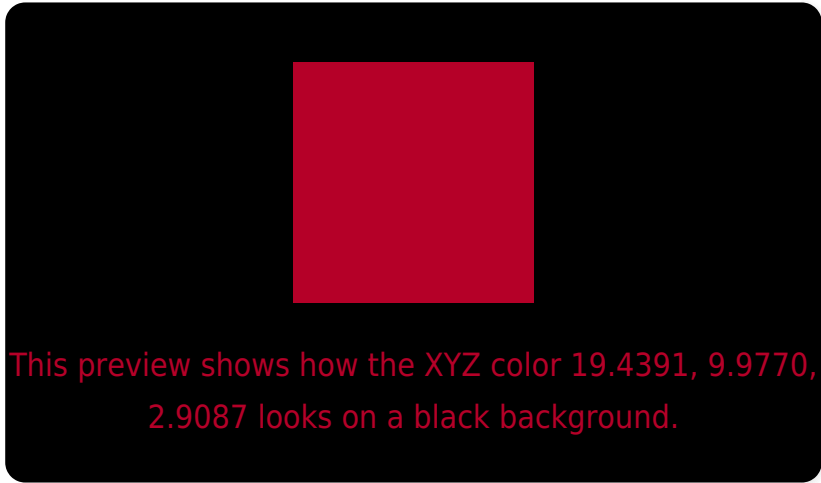
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# 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 19.4391, 9.9770, 2.9087**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.4391, 9.9770, 2.9087.



This preview shows how white text looks on a background with the XYZ color 19.4391, 9.9770,



# 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

19.4391, 9.9770, 2.9087

### Protanopia

9.9250, 10.7005, 5.9572

### Deuteranopia

10.6880, 10.5451, 2.5707



## Tritanopia

19.2949, 10.2400, 1.1606

# Trichromacy



## Original Color

19.4391, 9.9770, 2.9087

## Protanomaly

11.2598, 8.0521, 4.3289

## Deuteranomaly

12.2744, 8.3256, 2.3266

## Tritanomaly

19.2933, 10.1101, 1.5507

# Monochromacy



## Original Color

19.4391, 9.9770, 2.9087

## Achromatopsia

4.1570, 4.3735, 4.7627

## Achromatomaly

6.9065, 4.5177, 3.7568

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.4391, 9.9770, 2.9087 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(181, 0, 40)` looks like.

```
.text, #text, p{  
    color:rgb(181, 0, 40)  
}
```

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(181, 0, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 0, 40) }
```

## Border

The CSS property to change the border of an element to XYZ 19.4391, 9.9770, 2.9087 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(181, 0, 40) }
```



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

```
.border{ border-color:rgb(181, 0, 40) }
```

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

Here you see how a box with a 4 pixel rgb(181, 0, 40) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 0, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 0, 40);  
box-shadow:4px 4px 4px 4px rgb(181, 0, 40)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 19.4391, 9.9770, 2.9087 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 0, 40) }
```

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

```
.background{ background-color: rgb(181, 0,  
40) }
```

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**