

# Converting Colors

XYZ(18.4751, 9.5243, 0.8648)

Have a look what the booklet for  
XYZ(18.4751, 9.5243, 0.8648)  
contains.

<b>XYZ(18.3601, 9.4650, 0.8592)</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(18.3601, 9.4650,  
0.8592)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B20000
RGB	178, 0, 0
RGB Percent	70%, 0%, 0%
CMY	0.3020, 0.9999, 1.0000
CMYK	0.00, 1.00, 1.00, 0.30
HSL	0°, 100%, 35%
HSV	0°, 100%, 70%
XYZ	18.3601, 9.4650, 0.8592
YIQ	53.2220, 106.0880, 37.7360

# Conversions

## Conversions Part 2

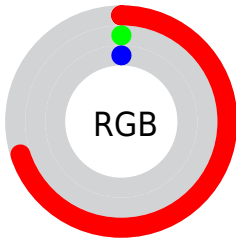
Format	Color
R <sub>Y</sub> B	178, 0, 0
Decimal	11665408
CIE Lab	36.86, 61.17, 51.27
CIE LCh	37, 79.814, 39.969
Yxy	9.4650, 0.6401, 0.3300
Android (android.graphics.Color)	4289855488 (0xFFB20000)
YUV	53.2220, -26.2384, 109.4303
Hunter-Lab	30.7652, 52.6862, 19.8798

# Details

The XYZ color **18.3601, 9.4650, 0.8592** is a dark color, and the websafe version is hex **CC0000**. A complement of this color would be **23.9495, 35.0417, 47.6206**, and the grayscale version is **3.4349, 3.6138, 3.9354**.

A 20% lighter version of the original color is **40.3125, 24.8684, 5.5811**, and **7.0702, 3.6448, 0.3309** is the 20% darker color. If you saturate the color by 10%, you get **18.3603, 9.4656, 0.8594**, and if you desaturate by 10%, it is **18.6810, 9.9350, 1.4968**.

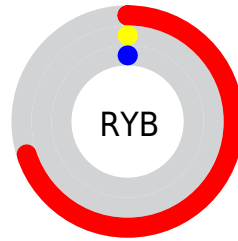
# Distribution



Red (70%)

Green (0%)

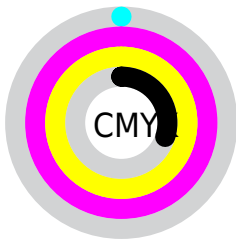
Blue (0%)



Red (70%)

Yellow (0%)

Blue (0%)

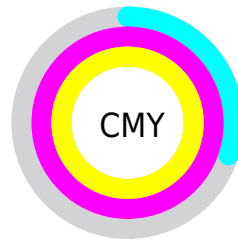


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (30%)



Cyan (30%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 18.3601, 9.4650, 0.8592 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 18.3601, 9.4650, 0.8592 by changing the saturation by 10% instead.





 18.3601, 9.4650,  
0.8592


 18.3601, 9.4650,  
0.8592


 235.8995,  
186.8099, 100.9940


 11.3101, 5.0457,  
0.0000


 40.1753, 24.7842,  
5.5958


 6.3446, 2.2741,  
0.0000


 55.6711, 36.4530,  
10.4605


 3.0984, 0.7600,  
0.0000

 74.7130, 51.3070,  
17.5489

 1.2060, 0.0000,  
0.0000

 97.6662, 69.7307,  
27.2795

 0.1111, 0.0000,  
0.0000


 124.8961, 92.1084,  
40.0707


 0.0000, 0.0000,  
0.0000

 156.7680,


118.8246, 56.3412


 193.6474,  
150.2636, 76.5094


 18.3601, 9.4650,  
0.8592


 18.3601, 9.4650,  
0.8592


 18.3603, 9.4656,  
0.8594

 18.6810, 9.9350,  
1.4968

 19.2919, 10.8291,  
2.7106

 20.3043, 12.3106,  
4.7226

 21.7709, 14.4569,  
7.6379

 23.7368, 17.3336,  
11.5458

■ 26.2414, 20.9986,  
16.5248

■ 29.3203, 25.5039,  
22.6456

■ 33.0060, 30.8970,  
29.9728

■ 37.3285, 37.2219,  
38.5664

# Harmonies

## Analogous

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



21.8881, 9.4650, 6.2936



18.3601, 9.4650, 0.8592



12.6383, 9.4650, 0.0000

# Triad

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



18.3601, 9.4650, 0.8592



2.7169, 9.4650, 3.5356



10.7339, 9.4650, 66.5792

# Complementary

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



18.3601, 9.4650, 0.8592



23.9495, 35.0417, 47.6206

# 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.



6.1311, 9.4650, 62.4062



18.3601, 9.4650, 0.8592



2.5282, 9.4650, 15.7388

# Square

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



18.3601, 9.4650, 0.8592



4.1875, 9.4650, 0.1671



3.5221, 9.4650, 39.3139



16.5375, 9.4650, 48.0950



# Rectangle

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



18.3601, 9.4650, 0.8592



9.0014, 9.4650, 0.0000



3.5221, 9.4650, 39.3139



8.9910, 9.4650, 68.0071

# Sweetspot

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



18.3603, 9.4656, 0.8594



52.8547, 45.7871, 40.4375



26.3958, 12.6792, 43.1752



11.1705, 9.3547, 7.8864



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.



18.3603, 9.4656, 0.8594



33.2954, 17.1651, 1.5583



21.9323, 16.6096, 2.0500



8.4965, 8.5055, 8.8464



13.1372, 6.7729, 0.6149



0.4134, 0.2132, 0.0194



# Inverse Universe

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



23.9495, 35.0417, 47.6206



43.4312, 63.5462, 86.3577



11.6082, 10.3590, 43.5068



8.7425, 9.6313, 10.9046



17.1364, 25.0731, 34.0734



0.5392, 0.7890, 1.0721



# Previews

## White Background



This preview shows how the XYZ color 18.3601, 9.4650, 0.8592 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

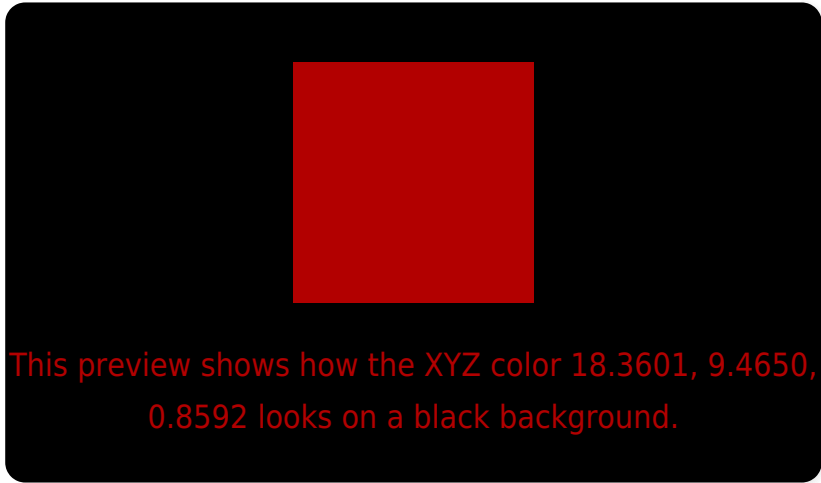
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 18.3601, 9.4650, 0.8592**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.3601, 9.4650, 0.8592.



This preview shows how white text looks on a background with the XYZ color 18.3601, 9.4650,



# 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

18.3601, 9.4650, 0.8592

### Protanopia

9.1776, 10.1409, 2.2843

### Deuteranopia

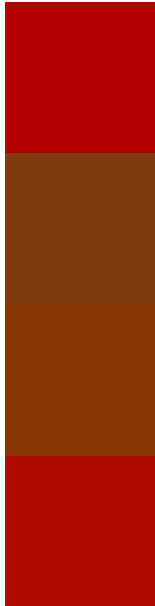
10.0586, 10.0077, 1.4015



## Tritanopia

18.3319, 9.7480, 0.9154

# Trichromacy



## Original Color

18.3601, 9.4650, 0.8592

## Protanomaly

10.6026, 7.6279, 1.3654

## Deuteranomaly

11.6357, 7.9567, 0.9225

## Tritanomaly

18.2511, 9.5865, 0.8884

# Monochromacy



## Original Color

18.3601, 9.4650, 0.8592

## Achromatopsia

3.3839, 3.5601, 3.8770

## Achromatomaly

5.8978, 3.8562, 1.9469

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.3601, 9.4650, 0.8592 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(178, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(178, 0, 0)  
}
```

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(178, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 0, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 18.3601, 9.4650, 0.8592 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(178, 0, 0) }
```



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

```
.border{ border-color:rgb(178, 0, 0) }
```

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

Here you see how a box with a 4 pixel rgb(178, 0, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(178, 0, 0); box-shadow:4px  
4px 4px 4px rgb(178, 0, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.3601, 9.4650, 0.8592 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 0, 0) }
```

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

```
.background{ background-color: rgb(178, 0,  
0) }
```

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**