

# Converting Colors

XYZ(18.7437, 9.6317, 2.2794)

Have a look what the booklet for  
XYZ(18.7437, 9.6317, 2.2794)  
contains.

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# Color

**XYZ(18.6346, 9.5748,  
2.3048)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B20021
RGB	178, 0, 33
RGB Percent	70%, 0%, 13%
CMY	0.3020, 0.9999, 0.8706
CMYK	0.00, 1.00, 0.81, 0.30
HSL	349°, 100%, 35%
HSV	349°, 100%, 70%
XYZ	18.6346, 9.5748, 2.3048
YIQ	56.9840, 95.4950, 47.9990

# Conversions

## Conversions Part 2

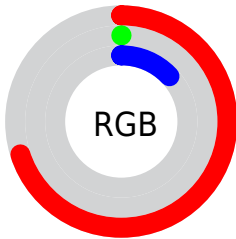
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	178, 0, 33
Decimal	11665441
CIE Lab	37.07, 61.72, 36.17
CIE LCh	37, 71.543, 30.371
Yxy	9.5748, 0.6107, 0.3138
Android (android.graphics.Color)	4289855521 (0xFFB20021)
YUV	56.9840, -11.8241, 106.1310
Hunter-Lab	30.9432, 53.3457, 17.2440

# Details

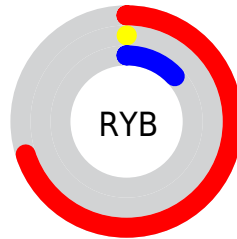
The XYZ color **18.6346, 9.5748, 2.3048** is a dark color, and the websafe version is hex **CC0033**. A complement of this color would be **21.0340, 33.8860, 32.2330**, and the grayscale version is **3.8955, 4.0983, 4.4631**.

A 20% lighter version of the original color is **40.4468, 24.8428, 9.8711**, and **7.2025, 3.7130, 0.3371** is the 20% darker color. If you saturate the color by 10%, you get **18.6341, 9.5746, 2.3028**, and if you desaturate by 10%, it is **19.0968, 10.1014, 3.6861**.

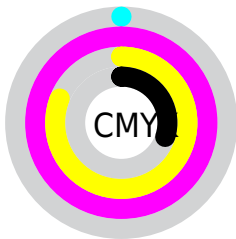
# Distribution



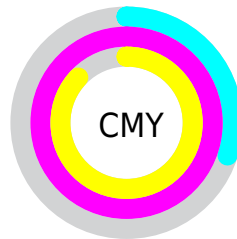
- Red (70%)
- Green (0%)
- Blue (13%)



- Red (70%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (81%)
- Black (30%)




- Cyan (30%)
- Magenta (100%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.6346, 9.5748, 2.3048 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 18.6346, 9.5748, 2.3048 by changing the saturation by 10% instead.





 18.6346, 9.5748,  
2.3048


 18.6346, 9.5748,  
2.3048


237.4011,  
187.6098, 126.9434


 11.5090, 5.1180,  
0.7339


 40.6374, 24.9926,  
9.8585

 6.4801, 2.3166,  
0.0000


 56.2453, 36.7224,  
16.6963


 3.1826, 0.7825,  
0.0000

 75.4113, 51.6452,  
26.1327

 1.2510, 0.0000,  
0.0000

 98.5009, 70.1456,  
38.5863

 0.1461, 0.0000,  
0.0000


 125.8793, 92.6078,  
54.4756

 0.0000, 0.0000,  
0.0000


 157.9119,


119.4164, 74.2192


 194.9640,  
150.9556, 98.2356


 18.6346, 9.5748,  
2.3048


 18.6346, 9.5748,  
2.3048


 18.6341, 9.5746,  
2.3028

 19.0968, 10.1014,  
3.6861

 19.8494, 11.0524,  
5.6453

 20.9751, 12.5796,  
8.2530

 22.5168, 14.7565,  
11.5614

 24.5113, 17.6456,  
15.6173

■ 26.9913, 21.3018,  
20.4633

■ 29.9864, 25.7749,  
26.1388

■ 33.5239, 31.1104,  
32.6805

■ 37.6289, 37.3502,  
40.1228

# Harmonies

## Analogous

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



20.5885, 9.5748, 10.2677



18.6346, 9.5748, 2.3048



14.0085, 9.5748, 0.1204

# Triad

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



18.6346, 9.5748, 2.3048



3.5131, 9.5748, 2.4066



9.1560, 9.5748, 58.9846

# Complementary

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



18.6346, 9.5748, 2.3048



21.0340, 33.8860, 32.2330

# 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.



5.4981, 9.5748, 49.4045



18.6346, 9.5748, 2.3048



2.9539, 9.5748, 10.5845

# Square

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



18.6346, 9.5748, 2.3048



5.4300, 9.5748, 0.1528



3.5425, 9.5748, 28.3221



14.1366, 9.5748, 48.9590



# Rectangle

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



18.6346, 9.5748, 2.3048



10.6049, 9.5748, 0.0000



3.5425, 9.5748, 28.3221



7.7457, 9.5748, 57.8991

# Sweetspot

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



18.6348, 9.5754, 2.3049



54.0624, 46.2665, 46.8089



19.2613, 9.0018, 42.8414



11.4547, 9.4676, 9.3860



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.



18.6348, 9.5754, 2.3049



33.7307, 17.3385, 3.8530



19.6526, 12.0499, 1.2910



8.5585, 8.5301, 9.1737



13.3506, 6.8578, 1.7402



0.4392, 0.2234, 0.1556



# Inverse Universe

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



18.6348, 9.5754, 2.3049



33.7307, 17.3385, 3.8530



15.3205, 17.7830, 44.7441



8.5585, 8.5301, 9.1737



13.3506, 6.8578, 1.7402



0.4392, 0.2234, 0.1556



# Previews

## White Background



This preview shows how the XYZ color 18.6346, 9.5748, 2.3048 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

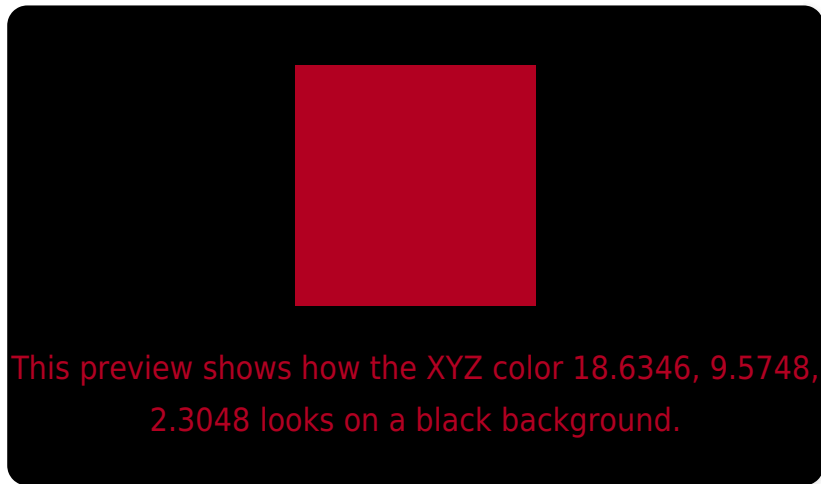
Any Text WCAG AA ✓ Pass

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 18.6346, 9.5748, 2.3048**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.6346, 9.5748, 2.3048.



This preview shows how white text looks on a background with the XYZ color 18.6346, 9.5748,



# 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

18.6346, 9.5748, 2.3048

### Protanopia

9.4216, 10.2129, 4.7235

### Deuteranopia

10.2971, 10.1181, 1.9825



## Tritanopia

18.3168, 9.7177, 0.9103

# Trichromacy



## Original Color

18.6346, 9.5748, 2.3048

## Protanomaly

10.8389, 7.7049, 3.3985

## Deuteranomaly

11.7903, 8.0186, 1.7369

## Tritanomaly

18.3064, 9.5907, 1.2342

# Monochromacy



## Original Color

18.6346, 9.5748, 2.3048

## Achromatopsia

3.8890, 4.0915, 4.4557

## Achromatomaly

6.5312, 4.2419, 3.2708

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.6346, 9.5748, 2.3048 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, 33)` looks like.

```
.text, #text, p{  
    color:rgb(178, 0, 33)  
}
```

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, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 0, 33) }
```

## Border

The CSS property to change the border of an element to XYZ 18.6346, 9.5748, 2.3048 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, 33) }
```



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

```
.border{ border-color:rgb(178, 0, 33) }
```

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, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 0, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 0, 33);  
box-shadow:4px 4px 4px 4px rgb(178, 0, 33)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.6346, 9.5748, 2.3048 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, 33) }
```

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

```
.background{ background-color: rgb(178, 0,  
33) }
```

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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