

# Converting Colors

XYZ(17.2645, 7.7325, 4.7123)

Have a look what the booklet for  
XYZ(17.2645, 7.7325, 4.7123)  
contains.

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# Color

**XYZ(18.0230, 9.2000,  
4.9635)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AD003B
RGB	173, 0, 59
RGB Percent	68%, 0%, 23%
CMY	0.3216, 0.9999, 0.7686
CMYK	0.00, 1.00, 0.66, 0.32
HSL	340°, 100%, 34%
HSV	340°, 100%, 68%
XYZ	18.0230, 9.2000, 4.9635
YIQ	58.4530, 84.1690, 55.0250

# Conversions

## Conversions Part 2

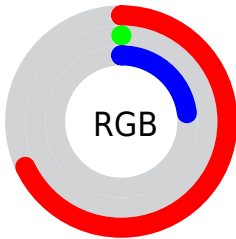
Format	Color
<b>R<sub>YB</sub></b>	173, 0, 59
Decimal	11337787
CIE Lab	36.37, 61.54, 18.84
CIE LCh	36, 64.356, 17.024
Yxy	9.2000, 0.5600, 0.2858
Android (android.graphics.Color)	4289527867 (0xFFAD003B)
YUV	58.4530, 0.2697, 100.4577
Hunter-Lab	30.3315, 52.9847, 11.5297

# Details

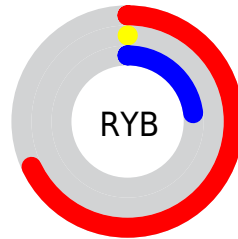
The XYZ color **18.0230, 9.2000, 4.9635** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **17.9827, 31.1027, 20.9836**, and the grayscale version is **4.0764, 4.2887, 4.6704**.

A 20% lighter version of the original color is **39.6585, 24.2947, 16.2348**, and **6.9192, 3.5544, 0.8936** is the 20% darker color. If you saturate the color by 10%, you get **18.0224, 9.1998, 4.9610**, and if you desaturate by 10%, it is **18.5573, 9.7426, 6.7635**.

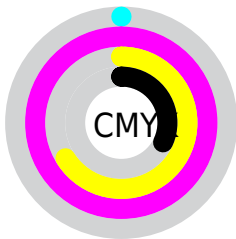
# Distribution



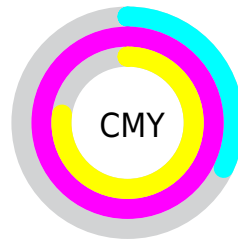
- Red (68%)
- Green (0%)
- Blue (23%)



- Red (68%)
- Yellow (0%)
- Blue (23%)



- Cyan (0%)
- Magenta (100%)
- Yellow (66%)
- Black (32%)




- Cyan (32%)
- Magenta (100%)
- Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.0230, 9.2000, 4.9635 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 18.0230, 9.2000, 4.9635 by changing the saturation by 10% instead.





 18.0230, 9.2000,  
4.9635


 18.0230, 9.2000,  
4.9635


234.0437,  
184.8630, 158.3984


 11.0663, 4.8719,  
2.1675


 39.6063, 24.2795,  
16.1771


 6.1791, 2.1723,  
0.6555


 54.9636, 35.7996,  
25.4318


 2.9960, 0.7048,  
0.0000

 73.8518, 50.4859,  
37.6765

 1.1516, 0.0000,  
0.0000

 96.6362, 68.7227,  
53.3297

 0.0677, 0.0000,  
0.0000

 123.6823, 90.8944,  
72.8099

 0.0000, 0.0000,  
0.0000

 155.3553,

117.3854, 96.5357

192.0207,  
148.5801, 124.9257

■ 18.0230, 9.2000,  
4.9635

■ 18.0230, 9.2000,  
4.9635

■ 18.0224, 9.1998,  
4.9610

■ 18.5573, 9.7426,  
6.7635

■ 19.3392, 10.6707,  
8.9839

■ 20.4432, 12.1277,  
11.6671

■ 21.9053, 14.1804,  
14.8416

■ 23.7565, 16.8856,  
18.5329

■ 26.0241, 20.2933,  
22.7648

■ 28.7330, 24.4487,  
27.5591

■ 31.9058, 29.3931,  
32.9367

■ 35.5639, 35.1649,  
38.9170

# Harmonies

## Analogous

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



18.2454, 9.2000, 15.6379



18.0230, 9.2000, 4.9635



14.8982, 9.2000, 1.0974

# Triad

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



18.0230, 9.2000, 4.9635



4.3342, 9.2000, 1.3611



7.1701, 9.2000, 48.7467

# Complementary

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



18.0230, 9.2000, 4.9635



17.9827, 31.1027, 20.9836

# 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.



4.5724, 9.2000, 35.2837



18.0230, 9.2000, 4.9635



3.2933, 9.2000, 5.9362

# Square

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



18.0230, 9.2000, 4.9635



6.7322, 9.2000, 0.0814



3.3651, 9.2000, 17.6886



11.1220, 9.2000, 47.6306



# Rectangle

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



18.0230, 9.2000, 4.9635



12.0009, 9.2000, 0.2412



3.3651, 9.2000, 17.6886



6.1376, 9.2000, 45.5119

# Sweetspot

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



18.0232, 9.2006, 4.9636



51.1766, 43.3489, 48.8668



14.2838, 6.4927, 40.0353



10.6753, 8.7329, 9.8384



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



18.0232, 9.2006, 4.9636



32.1867, 16.4401, 8.4068



17.6025, 9.6219, 0.9303



8.1137, 8.0587, 8.9097



13.2647, 6.7684, 3.7733



0.3951, 0.1987, 0.2422



# Inverse Universe

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



18.0232, 9.2006, 4.9636



32.1867, 16.4401, 8.4068



17.9852, 23.9015, 43.2005



8.1137, 8.0587, 8.9097



13.2647, 6.7684, 3.7733



0.3951, 0.1987, 0.2422



# Previews

## White Background



This preview shows how the XYZ color 18.0230, 9.2000, 4.9635 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

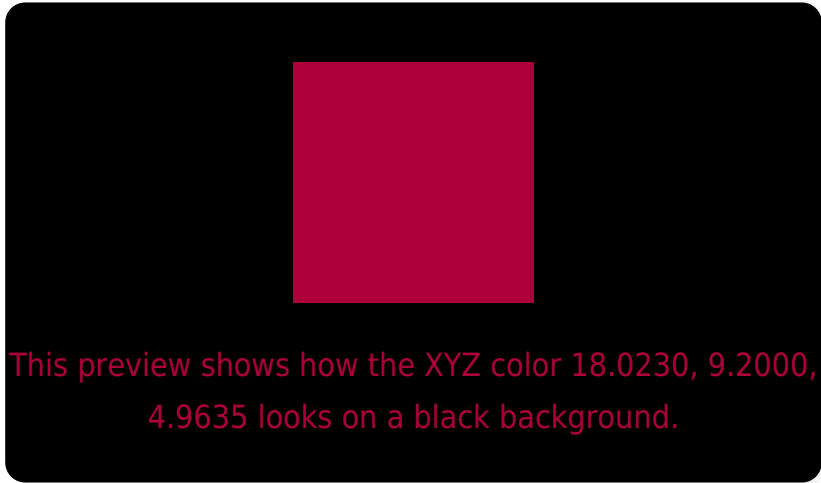
Any Text WCAG AA ✓ Pass

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 18.0230, 9.2000, 4.9635**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.0230, 9.2000, 4.9635.



This preview shows how white text looks on a background with the XYZ color 18.0230, 9.2000,



# 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

18.0230, 9.2000, 4.9635

### Protanopia

9.4265, 9.8412, 10.4195

### Deuteranopia

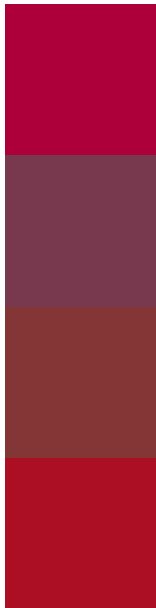
9.9522, 9.7678, 4.4928



## Tritanopia

17.4752, 9.4781, 1.6179

# Trichromacy



## Original Color

18.0230, 9.2000, 4.9635

## Protanomaly

10.4995, 7.3572, 7.8879

## Deuteranomaly

11.4547, 7.7181, 4.3760

## Tritanomaly

17.4875, 9.2337, 2.4507

# Monochromacy



## Original Color

18.0230, 9.2000, 4.9635

## Achromatopsia

4.0217, 4.2311, 4.6077

## Achromatomaly

6.6808, 4.3379, 4.4882

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.0230, 9.2000, 4.9635 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(173, 0, 59)` looks like.

```
.text, #text, p{  
  color:rgb(173, 0, 59)  
}
```

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(173, 0, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 0, 59) }
```

## Border

The CSS property to change the border of an element to XYZ 18.0230, 9.2000, 4.9635 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(173, 0, 59) }
```



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

```
.border{ border-color:rgb(173, 0, 59) }
```

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

Here you see how a box with a 4 pixel rgb(173, 0, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 0, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 0, 59);  
box-shadow:4px 4px 4px 4px rgb(173, 0, 59)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.0230, 9.2000, 4.9635 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 0, 59) }
```

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

```
.background{ background-color: rgb(173, 0,  
59) }
```

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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