

# Converting Colors

XYZ(18.1180, 9.3142, 2.0212)

Have a look what the booklet for  
XYZ(18.1180, 9.3142, 2.0212)  
contains.

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# Color

**XYZ(18.1263, 9.3188,  
2.0057)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0001D
RGB	176, 0, 29
RGB Percent	69%, 0%, 11%
CMY	0.3098, 0.9999, 0.8863
CMYK	0.00, 1.00, 0.84, 0.31
HSL	350°, 100%, 35%
HSV	350°, 100%, 69%
XYZ	18.1263, 9.3188, 2.0057
YIQ	55.9300, 95.5870, 46.3310

# Conversions

## Conversions Part 2

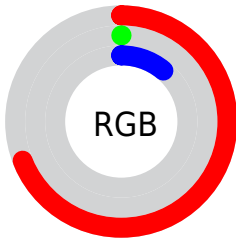
Format	Color
<a href="#">RYB</a>	<a href="#">176, 0, 29</a>
Decimal	<a href="#">11534365</a>
CIELab	<a href="#">36.59, 61.12, 37.85</a>
CIElCh	<a href="#">37, 71.890, 31.773</a>
Yxy	<a href="#">9.3188, 0.6155, 0.3164</a>
Android (android.graphics.Color)	<a href="#">4289724445 (0xFFB0001D)</a>
YUV	<a href="#">55.9300, -13.2765, 105.3014</a>
Hunter-Lab	<a href="#">30.5267, 52.5689, 17.4732</a>

# Details

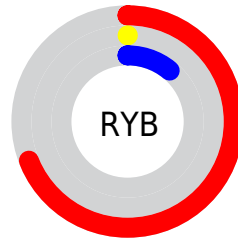
The XYZ color **18.1263, 9.3188, 2.0057** is a dark color, and the websafe version is hex **CC3333**. A complement of this color would be **20.7943, 33.1582, 32.9198**, and the grayscale version is **3.7597, 3.9555, 4.3076**.

A 20% lighter version of the original color is **39.9672, 24.6116, 9.1226**, and **6.9394, 3.5774, 0.3248** is the 20% darker color. If you saturate the color by 10%, you get **18.1259, 9.3187, 2.0042**, and if you desaturate by 10%, it is **18.5638, 9.8304, 3.2726**.

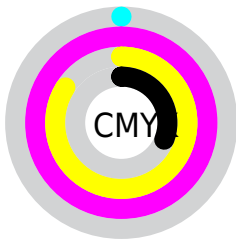
# Distribution



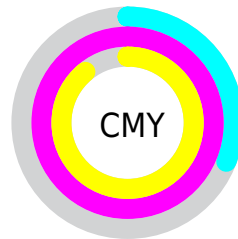
- Red (69%)
- Green (0%)
- Blue (11%)



- Red (69%)
- Yellow (0%)
- Blue (11%)



- Cyan (0%)
- Magenta (100%)
- Yellow (84%)
- Black (31%)




- Cyan (31%)
- Magenta (100%)
- Yellow (89%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.1263, 9.3188, 2.0057 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 18.1263, 9.3188, 2.0057 by changing the saturation by 10% instead.





 18.1263, 9.3188,  
2.0057


 18.1263, 9.3188,  
2.0057


234.6138,  
185.7386, 122.4652


 11.1409, 4.9497,  
0.5588


 39.7808, 24.5061,  
9.0564


 6.2297, 2.2178,  
0.0000


 55.1807, 36.0931,  
15.5514


 3.0272, 0.7297,  
0.0000

 74.1161, 50.8548,  
24.5843

 1.1682, 0.0000,  
0.0000

 96.9524, 69.1757,  
36.5735


 0.0810, 0.0000,  
0.0000


 124.0550, 91.4401,  
51.9377

 0.0000, 0.0000,  
0.0000


 155.7892,


118.0325, 71.0954


 192.5203,  
149.3372, 94.4650


 18.1263, 9.3188,  
2.0057


 18.1263, 9.3188,  
2.0057


 18.1259, 9.3187,  
2.0042

 18.5638, 9.8304,  
3.2726

 19.2863, 10.7552,  
5.1166

 20.3759, 12.2431,  
7.6112

 21.8750, 14.3656,  
10.8110

 23.8202, 17.1837,  
14.7651

■ 26.2437, 20.7511,  
19.5178

■ 29.1749, 25.1164,  
25.1101

■ 32.6406, 30.3239,  
31.5799

■ 36.6659, 36.4147,  
38.9632

# Harmonies

## Analogous

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



20.2320, 9.3188, 9.4180



18.1263, 9.3188, 2.0057



13.4705, 9.3188, 0.0000

# Triad

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



18.1263, 9.3188, 2.0057



3.3139, 9.3188, 2.4774



9.1205, 9.3188, 58.4343

# Complementary

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



18.1263, 9.3188, 2.0057



20.7943, 33.1582, 32.9198

# 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.



5.4396, 9.3188, 49.7232



18.1263, 9.3188, 2.0057



2.8222, 9.3188, 10.9118

# Square

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



18.1263, 9.3188, 2.0057



5.1198, 9.3188, 0.1378



3.4511, 9.3188, 28.8978



14.0767, 9.3188, 47.5998



# Rectangle

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



18.1263, 9.3188, 2.0057



10.1186, 9.3188, 0.0000



3.4511, 9.3188, 28.8978



7.7053, 9.3188, 57.6768

# Sweetspot

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



18.1265, 9.3194, 2.0058



52.6016, 45.0859, 44.9523



19.8105, 9.3079, 41.8266



10.9058, 9.0338, 8.8051



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.



18.1265, 9.3194, 2.0058



32.8193, 16.8789, 3.3437



19.4524, 12.3258, 1.3547



8.5515, 8.5273, 9.1369



13.3144, 6.8433, 1.5496



0.4363, 0.2223, 0.1405



# Inverse Universe

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



18.1265, 9.3194, 2.0058



32.8193, 16.8789, 3.3437



14.2381, 15.9373, 43.3999



8.5515, 8.5273, 9.1369



13.3144, 6.8433, 1.5496



0.4363, 0.2223, 0.1405



# Previews

## White Background



This preview shows how the XYZ color 18.1263, 9.3188, 2.0057 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

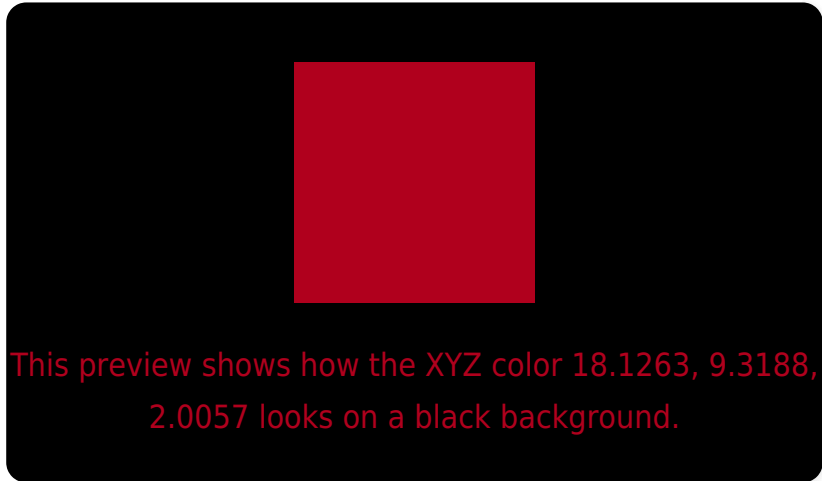
Any Text WCAG AA ✓ Pass

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 18.1263, 9.3188, 2.0057**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.1263, 9.3188, 2.0057.



This preview shows how white text looks on a background with the XYZ color 18.1263, 9.3188,



# 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

18.1263, 9.3188, 2.0057

### Protanopia

9.1025, 9.9387, 4.0234

### Deuteranopia

10.0297, 9.8711, 1.6351



## Tritanopia

17.8645, 9.4845, 0.8891

# Trichromacy



## Original Color

18.1263, 9.3188, 2.0057

## Protanomaly

10.4503, 7.5151, 2.9072

## Deuteranomaly

11.5200, 7.8179, 1.3920

## Tritanomaly

17.8481, 9.3552, 1.1816

# Monochromacy



## Original Color

18.1263, 9.3188, 2.0057

## Achromatopsia

3.7589, 3.9546, 4.3066

## Achromatomaly

6.3795, 4.1683, 3.0531

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.1263, 9.3188, 2.0057 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, 0, 29)` looks like.

```
.text, #text, p{  
    color:rgb(176, 0, 29)  
}
```

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, 0, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 0, 29) }
```

## Border

The CSS property to change the border of an element to XYZ 18.1263, 9.3188, 2.0057 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, 0, 29) }
```



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

```
.border{ border-color:rgb(176, 0, 29) }
```

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

Here you see how a box with a 4 pixel rgb(176, 0, 29) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 0, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 0, 29);  
box-shadow:4px 4px 4px 4px rgb(176, 0, 29)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.1263, 9.3188, 2.0057 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 0, 29) }
```

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

```
.background{ background-color: rgb(176, 0,  
29) }
```

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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