

# Converting Colors

XYZ(18.2470, 11.8674, 1.3864)

Have a look what the booklet for  
XYZ(18.2470, 11.8674, 1.3864)  
contains.

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# Color

**XYZ(18.2573, 11.8879,  
1.3898)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA3D02
RGB	170, 61, 2
RGB Percent	67%, 24%, 1%
CMY	0.3333, 0.7608, 0.9921
CMYK	0.00, 0.64, 0.99, 0.33
HSL	21°, 98%, 34%
HSV	21°, 99%, 67%
XYZ	18.2573, 11.8879, 1.3898
YIQ	86.8650, 83.9030, 4.7590

# Conversions

## Conversions Part 2

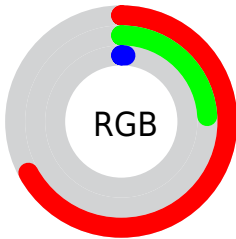
<b>Format</b>	<b>Color</b>
<b>RYB</b>	170, 93, 2
Decimal	11156738
CIELab	41.04, 42.64, 51.60
CIELCh	41, 66.940, 50.429
Yxy	11.8879, 0.5790, 0.3770
Android (android.graphics.Color)	4289346818 (0xFFAA3D02)
YUV	86.8650, -41.8384, 72.9094
Hunter-Lab	34.4788, 34.1817, 21.7453

# Details

The XYZ color **18.2573, 11.8879, 1.3898** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **12.9648, 14.2834, 40.1037**, and the grayscale version is **9.1051, 9.5793, 10.4319**.

A 20% lighter version of the original color is **39.8976, 29.2516, 7.2847**, and **6.3067, 3.2512, 0.2951** is the 20% darker color. If you saturate the color by 10%, you get **18.1780, 11.7471, 1.3093**, and if you desaturate by 10%, it is **19.0147, 13.2324, 2.1682**.

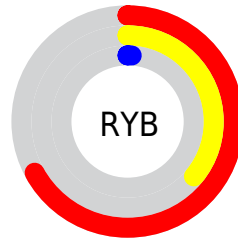
# Distribution



Red (67%)

Green (24%)

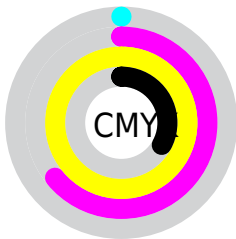
Blue (1%)



Red (67%)

Yellow (36%)

Blue (1%)

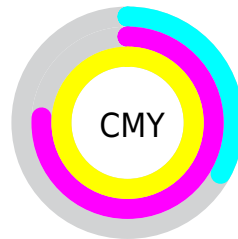


Cyan (0%)

Magenta (64%)

Yellow (99%)

Black (33%)



Cyan (33%)

Magenta (76%)


Yellow (99%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 18.2573, 11.8879, 1.3898 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 18.2573, 11.8879, 1.3898 by changing the saturation by 10% instead.





 18.2573, 11.8879,  
1.3898


 18.2573, 11.8879,  
1.3898


 235.3350,  
203.6617, 112.0374


 11.2357, 6.6674,  
0.1337


 40.0019, 29.2908,  
7.2931


 6.2940, 3.2550,  
0.0000


 55.4556, 42.2419,  
12.9931


 3.0670, 1.2663,  
0.0000

 74.4508, 58.5388,  
21.0833

 1.1893, 0.1148,  
0.0000

 97.3527, 78.5656,  
31.9823


 0.0979, 0.0000,  
0.0000


 124.5267,  
102.7070, 46.1087


 0.0000, 0.0000,  
0.0000


 156.3382,


131.3472, 63.8810


 193.1525,  
164.8706, 85.7177


 18.2573, 11.8879,  
1.3898


 18.2573, 11.8879,  
1.3898


 18.1780, 11.7471,  
1.3093

 19.0147, 13.2324,  
2.1682

 19.9942, 14.8699,  
3.4857

 21.2313, 16.8253,  
5.4972

 22.7473, 19.1166,  
8.2859

 24.5610, 21.7603,  
11.9232

■ 26.6893, 24.7715,  
16.4723

■ 29.1478, 28.1643,  
21.9903

■ 31.9508, 31.9523,  
28.5295

■ 35.1119, 36.1481,  
36.1385

# Harmonies

## Analogous

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



22.3426, 11.8879, 5.7361



18.2573, 11.8879, 1.3898



12.9041, 11.8879, 0.3318

# Triad

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



18.2573, 11.8879, 1.3898



4.4229, 11.8879, 9.0277



14.8365, 11.8879, 56.8739

# Complementary

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



18.2573, 11.8879, 1.3898



12.9648, 14.2834, 40.1037

# 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.



9.8330, 11.8879, 60.4180



18.2573, 11.8879, 1.3898



4.6692, 11.8879, 24.5360

# Square

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



18.2573, 11.8879, 1.3898



5.5734, 11.8879, 2.3517



6.3805, 11.8879, 45.8800



20.0112, 11.8879, 38.1391



# Rectangle

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



18.2573, 11.8879, 1.3898



9.7094, 11.8879, 0.3440



6.3805, 11.8879, 45.8800



13.0535, 11.8879, 60.2261

# Sweetspot

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



18.2576, 11.8886, 1.3900



52.0736, 49.9906, 38.0450



19.4796, 9.7416, 15.9507



11.1983, 10.5779, 7.5496



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.



18.2576, 11.8886, 1.3900



32.7968, 20.9430, 2.3138



26.6834, 28.7402, 4.1986



7.7386, 7.9573, 7.9173



13.4202, 8.7376, 0.9792



0.3745, 0.3085, 0.0398



# Inverse Universe

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



12.9648, 14.2834, 40.1037



23.1278, 25.1920, 72.6455



7.6773, 3.7084, 38.3412



7.5225, 8.0819, 9.5818



9.5162, 10.4925, 29.4992



0.2768, 0.3458, 0.7328



# Previews

## White Background



This preview shows how the XYZ color 18.2573, 11.8879, 1.3898 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 × Fail



# Black Background



This preview shows how the XYZ color 18.2573, 11.8879, 1.3898 looks on a 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 18.2573, 11.8879, 1.3898**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.2573, 11.8879, 1.3898.



This preview shows how white text looks on a background with the XYZ color 18.2573, 11.8879,



# 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

18.2573, 11.8879, 1.3898

### Protanopia

10.9073, 12.0940, 2.3318

### Deuteranopia

12.0827, 12.0397, 1.6871



## Tritanopia

19.0733, 11.9104, 5.5686

# Trichromacy



## Original Color

18.2573, 11.8879, 1.3898

## Protanomaly

12.8306, 11.4291, 1.8776

## Deuteranomaly

13.7631, 11.4625, 1.5158

## Tritanomaly

18.6739, 11.8305, 3.2188

# Monochromacy



## Original Color

18.2573, 11.8879, 1.3898

## Achromatopsia

9.0590, 9.5307, 10.3790

## Achromatomaly

10.7743, 9.5162, 5.0103

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.2573, 11.8879, 1.3898 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(170, 61, 2)` looks like.

```
.text, #text, p{  
    color:rgb(170, 61, 2)  
}
```

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(170, 61, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 61, 2) }
```

## Border

The CSS property to change the border of an element to XYZ 18.2573, 11.8879, 1.3898 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(170, 61, 2) }
```



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

```
.border{ border-color:rgb(170, 61, 2) }
```

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

Here you see how a box with a 4 pixel rgb(170, 61, 2) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 61, 2); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 61, 2);  
box-shadow:4px 4px 4px 4px rgb(170, 61, 2)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.2573, 11.8879, 1.3898 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 61, 2) }
```

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

```
.background{ background-color: rgb(170, 61,  
2) }
```

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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