

# Converting Colors

XYZ(18.8968, 11.2314, 1.1719)

Have a look what the booklet for  
XYZ(18.8968, 11.2314, 1.1719)  
contains.

<b>XYZ(18.9210, 11.2631, 1.1768)</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(18.9210, 11.2631,  
1.1768)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B02F00
RGB	176, 47, 0
RGB Percent	69%, 18%, 0%
CMY	0.3098, 0.8157, 1.0000
CMYK	0.00, 0.73, 1.00, 0.31
HSL	16°, 100%, 35%
HSV	16°, 100%, 69%
XYZ	18.9210, 11.2631, 1.1768
YIQ	80.2130, 91.9710, 12.7310

# Conversions

## Conversions Part 2

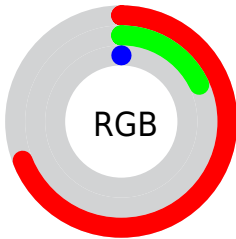
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	176, 64, 0
Decimal	11546368
CIE Lab	40.02, 50.48, 52.37
CIE LCh	40, 72.737, 46.050
Yxy	11.2631, 0.6033, 0.3591
Android (android.graphics.Color)	4289736448 (0xFFB02F00)
YUV	80.2130, -39.5450, 84.0052
Hunter-Lab	33.5605, 41.9050, 21.4134

# Details

The XYZ color **18.9210, 11.2631, 1.1768** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **15.6859, 18.8335, 43.8824**, and the grayscale version is **7.7295, 8.1321, 8.8558**.

A 20% lighter version of the original color is **40.9906, 28.1105, 6.6336**, and **6.9394, 3.5774, 0.3248** is the 20% darker color. If you saturate the color by 10%, you get **18.9211, 11.2636, 1.1768**, and if you desaturate by 10%, it is **19.6214, 12.4945, 1.9329**.

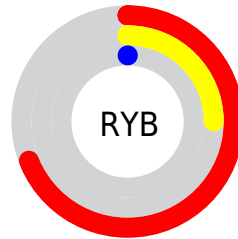
# Distribution



Red (69%)

Green (18%)

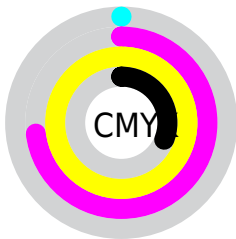
Blue (0%)



Red (69%)

Yellow (25%)

Blue (0%)

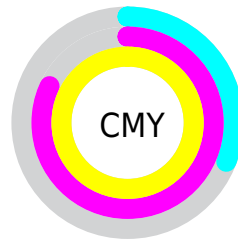


Cyan (0%)

Magenta (73%)

Yellow (100%)

Black (31%)



Cyan (31%)

Magenta (82%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 18.9210, 11.2631, 1.1768 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 18.9210, 11.2631, 1.1768 by changing the saturation by 10% instead.





 18.9210, 11.2631,  
1.1768


 18.9210, 11.2631,  
1.1768


 238.9588,  
199.4638, 107.8924


 11.7169, 6.2441,  
0.0000


 41.1185, 28.1457,  
6.6348


 6.6220, 2.9941,  
0.0000


 56.8425, 40.7780,  
12.0203

 3.2711, 1.1286,  
0.0000


 76.1373, 56.7169,  
19.7348

 1.2987, 0.0022,  
0.0000

 99.3681, 76.3468,  
30.1970

 0.1822, 0.0000,  
0.0000


 126.9003,  
100.0520, 43.8253


 0.0000, 0.0000,  
0.0000


 159.0992,


128.2170, 61.0382


 196.3303,  
161.2261, 82.2544


 18.9210, 11.2631,  
1.1768


 18.9210, 11.2631,  
1.1768


 18.9211, 11.2636,  
1.1768

 19.6214, 12.4945,  
1.9329

 20.5807, 14.0924,  
3.2414

 21.8469, 16.0941,  
5.2995

 23.4472, 18.5266,  
8.2015

 25.4057, 21.4142,  
12.0275

■ 27.7437, 24.7793,  
16.8483

■ 30.4812, 28.6431,  
22.7277

■ 33.6362, 33.0249,  
29.7241

■ 37.2261, 37.9434,  
37.8916

# Harmonies

## Analogous

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



22.9536, 11.2631, 6.0876



18.9210, 11.2631, 1.1768



13.2109, 11.2631, 0.0000

# Triad

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



18.9210, 11.2631, 1.1768



3.7936, 11.2631, 6.7236



13.6089, 11.2631, 62.8092

# Complementary

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



18.9210, 11.2631, 1.1768



15.6859, 18.8335, 43.8824

# 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.



8.5383, 11.2631, 63.5935



18.9210, 11.2631, 1.1768



3.8398, 11.2631, 21.6295

# Square

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



18.9210, 11.2631, 1.1768



5.1416, 11.2631, 1.3338



5.2969, 11.2631, 44.9804



19.2899, 11.2631, 43.2939



# Rectangle

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



18.9210, 11.2631, 1.1768



9.7176, 11.2631, 0.0000



5.2969, 11.2631, 44.9804



11.7576, 11.2631, 65.5999

# Sweetspot

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



18.9212, 11.2638, 1.1770



55.0029, 51.5570, 40.6091



21.8713, 10.8169, 21.7274



11.4618, 10.5292, 7.8083



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.



18.9212, 11.2638, 1.1770



34.1574, 20.1095, 2.0812



26.5591, 26.5395, 3.7229



8.6749, 8.8623, 8.9059



13.9251, 8.3488, 0.8775



0.4873, 0.3609, 0.0440



# Inverse Universe

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



15.6859, 18.8335, 43.8824



28.2532, 33.7659, 79.5237



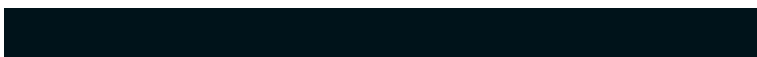
8.6318, 4.7252, 41.5311



8.5468, 9.2399, 10.8393



11.5590, 13.9184, 32.2143



0.4086, 0.5277, 1.0286



# Previews

## White Background



This preview shows how the XYZ color 18.9210, 11.2631, 1.1768 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



## 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 18.9210, 11.2631, 1.1768**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.9210, 11.2631, 1.1768.



This preview shows how white text looks on a background with the XYZ color 18.9210, 11.2631,



# 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

18.9210, 11.2631, 1.1768

### Protanopia

10.3725, 11.5420, 2.3430

### Deuteranopia

11.4868, 11.4752, 1.6095



## Tritanopia

19.5058, 11.3379, 3.6430

# Trichromacy



## Original Color

18.9210, 11.2631, 1.1768

## Protanomaly

12.3128, 10.3834, 1.7360

## Deuteranomaly

13.3313, 10.6076, 1.3448

## Tritanomaly

19.2916, 11.3126, 2.3292

# Monochromacy



## Original Color

18.9210, 11.2631, 1.1768

## Achromatopsia

7.6249, 8.0220, 8.7359

## Achromatomaly

9.7349, 8.0181, 4.1665

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.9210, 11.2631, 1.1768 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, 47, 0)` looks like.

```
.text, #text, p{  
    color:rgb(176, 47, 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(176, 47, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 47, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 18.9210, 11.2631, 1.1768 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, 47, 0) }
```



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

```
.border{ border-color:rgb(176, 47, 0) }
```

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

Here you see how a box with a 4 pixel rgb(176, 47, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 47, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 47, 0);  
box-shadow:4px 4px 4px 4px rgb(176, 47, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.9210, 11.2631, 1.1768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 47, 0) }
```

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

```
.background{ background-color: rgb(176, 47,  
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