

# Converting Colors

XYZ(30.2001, 16.8994, 1.6702)

Have a look what the booklet for  
XYZ(30.2001, 16.8994, 1.6702)  
contains.

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# Color

**XYZ(30.1141, 16.8614,  
1.6674)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DB2C00
RGB	219, 44, 0
RGB Percent	86%, 17%, 0%
CMY	0.1412, 0.8274, 1.0000
CMYK	0.00, 0.80, 1.00, 0.14
HSL	12°, 100%, 43%
HSV	12°, 100%, 86%
XYZ	30.1141, 16.8614, 1.6674
YIQ	91.3090, 118.4240, 23.4160

# Conversions

## Conversions Part 2

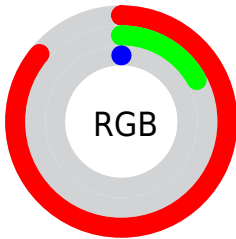
Format	Color
<a href="#">RYB</a>	<a href="#">219, 55, 0</a>
Decimal	<a href="#">14363648</a>
CIELab	<a href="#">48.08, 64.64, 60.83</a>
CIELCh	<a href="#">48, 88.755, 43.261</a>
Yxy	<a href="#">16.8614, 0.6191, 0.3466</a>
Android (android.graphics.Color)	<a href="#">4292553728</a> ( <a href="#">0xFFDB2C00</a> )
YUV	<a href="#">91.3090, -45.0153, 111.9850</a>
Hunter-Lab	<a href="#">41.0626, 59.0469, 26.3363</a>

# Details

The XYZ color **30.1141, 16.8614, 1.6674** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **28.1135, 35.7691, 72.4397**, and the grayscale version is **10.0965, 10.6223, 11.5677**.

A 20% lighter version of the original color is **47.1326, 31.8635, 7.5370**, and **13.3264, 6.8700, 0.6237** is the 20% darker color. If you saturate the color by 10%, you get **30.1144, 16.8623, 1.6675**, and if you desaturate by 10%, it is **31.0534, 18.5101, 2.6902**.

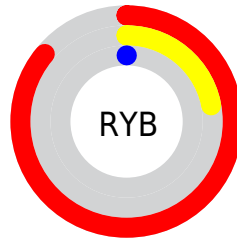
# Distribution



Red (86%)

Green (17%)

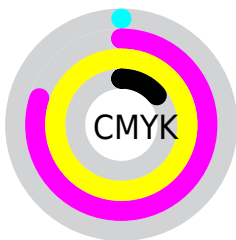
Blue (0%)



Red (86%)

Yellow (22%)

Blue (0%)

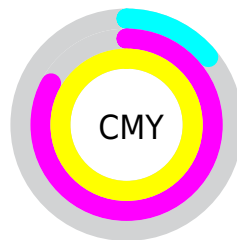


Cyan (0%)

Magenta (80%)

Yellow (100%)

Black (14%)



Cyan (14%)

Magenta (83%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 30.1141, 16.8614, 1.6674 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 30.1141, 16.8614, 1.6674 by changing the saturation by 10% instead.




 30.1141, 16.8614,  
1.6674


 30.1141, 16.8614,  
1.6674


 294.3362,  
234.3724, 116.9775


 20.0737, 10.1357,  
0.3382


 59.2280, 38.0873,  
8.1098


 12.5572, 5.4890,  
0.0000


 79.0321, 53.3564,  
14.1858

 7.1992, 2.5370,  
0.0000


 102.8216, 72.2420,  
22.7231

 3.6345, 0.8951,  
0.0000

 130.9618, 95.1285,  
34.1402

 1.4975, 0.0000,  
0.0000

 163.8180,  
122.4005, 48.8556


 0.3241, 0.0000,  
0.0000


 201.7556,


 0.0000, 0.0000,


154.4422, 67.2880


0.0000


 245.1398,  
191.6380, 89.8558


 30.1141, 16.8614,  
1.6674


 30.1141, 16.8614,  
1.6674


 30.1144, 16.8623,  
1.6675

 31.0534, 18.5101,  
2.6902

 32.4610, 20.8341,  
4.6739

 34.4174, 23.9091,  
7.9092

 36.9766, 27.7947,  
12.5624

 40.1853, 32.5444,  
18.7738

■ 44.0857, 38.2066,  
26.6669

■ 48.7162, 44.8264,  
36.3526

■ 54.1122, 52.4457,  
47.9324

■ 60.3069, 61.1038,  
61.5001

# Harmonies

## Analogous

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



36.2553, 16.8614, 9.9658



30.1141, 16.8614, 1.6674



20.9001, 16.8614, 0.0000

# Triad

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



30.1141, 16.8614, 1.6674



5.3177, 16.8614, 8.3373



19.8374, 16.8614, 103.8662

# Complementary

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



30.1141, 16.8614, 1.6674



28.1135, 35.7691, 72.4397

# 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.



11.9759, 16.8614, 101.6747



30.1141, 16.8614, 1.6674



5.2022, 16.8614, 30.4924

# Square

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



30.1141, 16.8614, 1.6674



7.5994, 16.8614, 1.3124



7.2033, 16.8614, 68.4337



29.1156, 16.8614, 73.1016



# Rectangle

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



30.1141, 16.8614, 1.6674



15.1635, 16.8614, 0.0000



7.2033, 16.8614, 68.4337



16.9211, 16.8614, 107.4241

# Sweetspot

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



30.1145, 16.8625, 1.6676



68.5901, 63.0222, 50.9326



36.9707, 18.1630, 42.2177



14.0610, 12.6059, 9.5952



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



30.1145, 16.8625, 1.6676



42.4347, 23.6494, 2.3282



40.6536, 37.9408, 5.1807



13.2669, 13.4732, 13.6269



17.9188, 10.1231, 1.0095



1.2223, 0.7788, 0.0859

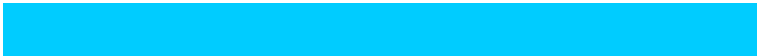


# Inverse Universe

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



28.1135, 35.7691, 72.4397



39.5839, 50.2877, 102.2280



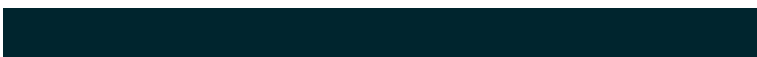
14.7169, 8.9761, 67.9742



13.2110, 14.3618, 16.7279



16.7493, 21.3681, 42.9801



1.1427, 1.4995, 2.8036



# Previews

## White Background



This preview shows how the XYZ color 30.1141, 16.8614, 1.6674 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 30.1141, 16.8614, 1.6674 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 30.1141, 16.8614, 1.6674**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.1141, 16.8614, 1.6674.



This preview shows how white text looks on a background with the XYZ color 30.1141, 16.8614,



# 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

30.1141, 16.8614, 1.6674

### Protanopia

15.3704, 17.0032, 3.4491

### Deuteranopia

17.1457, 16.9570, 2.3694



## Tritanopia

30.4066, 16.8060, 3.7391

# Trichromacy



## Original Color

30.1141, 16.8614, 1.6674

## Protanomaly

18.5738, 14.8666, 2.4209

## Deuteranomaly

20.2618, 15.2677, 1.8790

## Tritanomaly

30.2278, 16.7906, 2.6250

# Monochromacy



## Original Color

30.1141, 16.8614, 1.6674

## Achromatopsia

9.9438, 10.4616, 11.3927

## Achromatomaly

13.6937, 10.6063, 5.3285

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.1141, 16.8614, 1.6674 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(219, 44, 0)` looks like.

```
.text, #text, p{  
    color:rgb(219, 44, 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(219, 44, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 44, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 30.1141, 16.8614, 1.6674 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(219, 44, 0) }
```



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

```
.border{ border-color:rgb(219, 44, 0) }
```

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

Here you see how a box with a 4 pixel rgb(219, 44, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 44, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 44, 0);  
box-shadow:4px 4px 4px 4px rgb(219, 44, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 30.1141, 16.8614, 1.6674 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 44, 0) }
```

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

```
.background{ background-color: rgb(219, 44,  
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](#).

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