

# Converting Colors

$Y_{xy}(18.0212, 0.5677, 0.3673)$

Have a look what the booklet for  
Yxy(18.0212, 0.5677, 0.3673)  
contains.

<b>Yxy(18.1000, 0.5674, 0.3679)</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> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(18.1000, 0.5674, 0.3679)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CD4B1D
RGB	205, 75, 29
RGB Percent	80%, 29%, 11%
CMY	0.1961, 0.7059, 0.8864
CMYK	0.00, 0.63, 0.86, 0.20
HSL	16°, 75%, 46%
HSV	16°, 86%, 80%
XYZ	27.9150, 18.1000, 3.1831
YIQ	108.6260, 92.2460, 13.2540

# Conversions

## Conversions Part 2

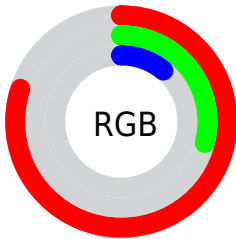
Format	Color
<a href="#">RYB</a>	<a href="#">205, 91, 29</a>
Decimal	<a href="#">13454109</a>
CIELab	<a href="#">49.62, 49.52, 51.52</a>
CIELCh	<a href="#">50, 71.463, 46.133</a>
Yxy	<a href="#">18.1000, 0.5674, 0.3679</a>
Android (android.graphics.Color)	<a href="#">4291644189 (0xFFCD4B1D)</a>
YUV	<a href="#">108.6260, -39.2556, 84.5200</a>
Hunter-Lab	<a href="#">42.5441, 42.6694, 25.3448</a>

# Details

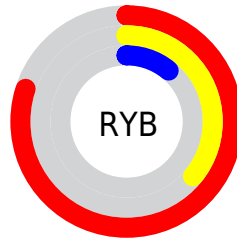
The Yxy color **18.1000, 0.5674, 0.3679** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **29.4555, 0.2070, 0.2549**, and the grayscale version is **15.2752, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.5106, 0.5058, 0.3760**, and **6.1275, 0.6311, 0.3371** is the 20% darker color. If you saturate the color by 10%, you get **16.2158, 0.5962, 0.3603**, and if you desaturate by 10%, it is **20.5422, 0.5316, 0.3713**.

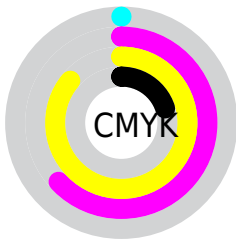
# Distribution



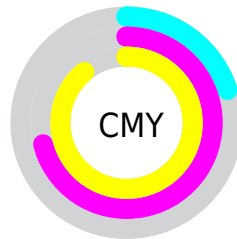
- Red (80%)
- Green (29%)
- Blue (11%)



- Red (80%)
- Yellow (36%)
- Blue (11%)



- Cyan (0%)
- Magenta (63%)
- Yellow (86%)
- Black (20%)




- Cyan (20%)
- Magenta (71%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.1000, 0.5674, 0.3679 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 Yxy color 18.1000, 0.5674, 0.3679 by changing the saturation by 10% instead.





 18.1000, 0.5674,  
0.3679

 18.1000, 0.5674,  
0.3679


241.4341, 0.4278,  
0.3635


 11.0218, 0.6011,  
0.3600


 40.2076, 0.5161,  
0.3721


 6.0815, 0.6509,  
0.3491

 56.0059, 0.4967,  
0.3718


 2.8947, 0.6874,  
0.3126

 75.4796, 0.4804,  
0.3708

 1.0770, 0.7428,  
0.2572

 99.0132, 0.4666,  
0.3694


 0.0000, 1.0000,  
0.0000


 126.9910, 0.4547,  
0.3679


 0.0000, 0.0000,  
0.0000


 159.7975, 0.4445,

0.3664

 197.8171, 0.4356,  
0.3649

 18.1000, 0.5674,  
0.3679


 18.1000, 0.5674,  
0.3679


 16.2158, 0.5962,  
0.3603


 20.5422, 0.5316,  
0.3713

 15.5814, 0.6063,  
0.3568

 23.5827, 0.4929,  
0.3706

 27.2611, 0.4549,  
0.3668

 31.6125, 0.4200,  
0.3609

 36.6691, 0.3893,  
0.3540

■ 42.4612, 0.3630,  
0.3467

■ 49.0172, 0.3408,  
0.3396

■ 56.3638, 0.3222,  
0.3328

■ 64.5266, 0.3066,  
0.3264

# Harmonies

## Analogous

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



18.1000, 0.5311, 0.2912



18.1000, 0.5674, 0.3679



18.1000, 0.5161, 0.4552

# Triad

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



18.1000, 0.5674, 0.3679



18.1000, 0.1970, 0.4822



18.1000, 0.1744, 0.1497

# Complementary

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



18.1000, 0.5674, 0.3679



29.4555, 0.2070, 0.2549

# 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.



18.1000, 0.1239, 0.1572



18.1000, 0.5674, 0.3679



18.1000, 0.1297, 0.3143

# Square

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



18.1000, 0.5674, 0.3679



18.1000, 0.3034, 0.5836



18.1000, 0.1091, 0.2045



18.1000, 0.2704, 0.1722



# Rectangle

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



18.1000, 0.5674, 0.3679



18.1000, 0.4533, 0.5177



18.1000, 0.1091, 0.2045



18.1000, 0.1530, 0.1486

# Sweetspot

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



18.1010, 0.5674, 0.3679



69.0816, 0.3641, 0.3471



16.4301, 0.3830, 0.1964



14.0483, 0.3729, 0.3496



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



18.1010, 0.5674, 0.3679



25.2365, 0.6084, 0.3552



38.5563, 0.4579, 0.4629



11.6828, 0.3284, 0.3351



9.8328, 0.6038, 0.3588



0.6340, 0.5643, 0.3901

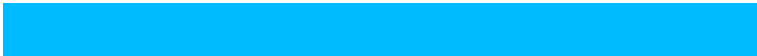


# Inverse Universe

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



29.4555, 0.2070, 0.2549



43.3227, 0.2000, 0.2400



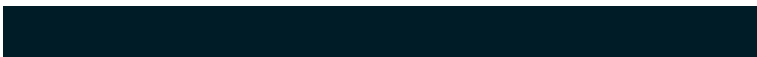
9.4316, 0.1692, 0.1148



12.2112, 0.2983, 0.3228



16.7633, 0.2007, 0.2426



0.9839, 0.2060, 0.2615



# Previews

## White Background



This preview shows how the Yxy color 18.1000, 0.5674, 0.3679 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 Yxy color 18.1000, 0.5674, 0.3679 looks on a black 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

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 18.1000, 0.5674, 0.3679**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.1000, 0.5674, 0.3679.



This preview shows how white text looks on a background with the Yxy color 18.1000, 0.5674, 0.3679.

# 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

18.1000, 0.5674, 0.3679

### Protanopia

18.3334, 0.4199, 0.4623

### Deuteranopia

18.0724, 0.4715, 0.4638



## Tritanopia

17.9965, 0.5222, 0.3254

# Trichromacy



## Original Color

18.1000, 0.5674, 0.3679

## Protanomaly

17.1988, 0.4791, 0.4233

## Deuteranomaly

17.4939, 0.5124, 0.4249

## Tritanomaly

18.0620, 0.5427, 0.3435

# Monochromacy



## Original Color

18.1000, 0.5674, 0.3679

## Achromatopsia

15.2926, 0.3127, 0.3290

## Achromatomaly

15.0579, 0.4114, 0.3596

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.1000, 0.5674, 0.3679 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(205, 75, 29)` looks like.

```
.text, #text, p{  
    color:rgb(205, 75, 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(205, 75, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 75, 29) }
```

## Border

The CSS property to change the border of an element to Yxy 18.1000, 0.5674, 0.3679 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(205, 75, 29) }
```

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

```
.border{ border-color:rgb(205, 75, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 75, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 75, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 75, 29);  
box-shadow:4px 4px 4px 4px rgb(205, 75,  
29) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.1000, 0.5674, 0.3679 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 75, 29) }
```

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

```
.background{ background-color: rgb(205, 75,  
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](#).

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