

# Converting Colors

$Y_{xy}(16.1673, 0.5981, 0.3502)$

Have a look what the booklet for  
Yxy(16.1673, 0.5981, 0.3502)  
contains.

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**Color**

**Yxy(16.2478, 0.5983, 0.3503)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D13615
RGB	209, 54, 21
RGB Percent	82%, 21%, 8%
CMY	0.1804, 0.7882, 0.9176
CMYK	0.00, 0.74, 0.90, 0.18
HSL	11°, 82%, 45%
HSV	11°, 90%, 82%
XYZ	27.7507, 16.2478, 2.3841
YIQ	96.5830, 102.9730, 22.5970

# Conversions

## Conversions Part 2

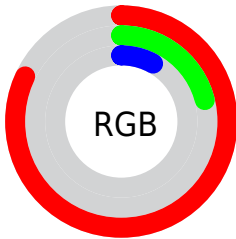
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	209, 61, 21
Decimal	13710869
CIE Lab	47.30, 58.87, 53.18
CIE LCh	47, 79.332, 42.096
Yxy	16.2478, 0.5983, 0.3503
Android (android.graphics.Color)	4291900949 (0xFFD13615)
YUV	96.5830, -37.2624, 98.5897
Hunter-Lab	40.3086, 52.3494, 24.7093

# Details

The Yxy color **16.2478, 0.5983, 0.3503** 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 **35.8258, 0.2121, 0.2778**, and the grayscale version is **11.9214, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.2905, 0.5284, 0.3654**, and **6.0197, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **14.8651, 0.6229, 0.3436**, and if you desaturate by 10%, it is **18.2592, 0.5636, 0.3551**.

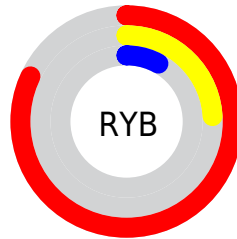
# Distribution



Red (82%)

Green (21%)

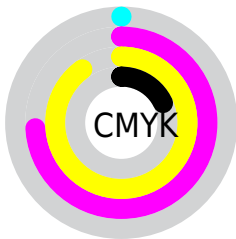
Blue (8%)



Red (82%)

Yellow (24%)

Blue (8%)

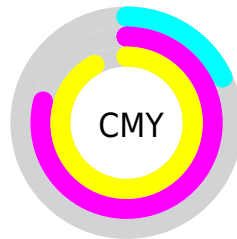


Cyan (0%)

Magenta (74%)

Yellow (90%)

Black (18%)



Cyan (18%)

Magenta (79%)


Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.2478, 0.5983, 0.3503 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 16.2478, 0.5983, 0.3503 by changing the saturation by 10% instead.





 16.2478, 0.5983,  
0.3503

 16.2478, 0.5983,  
0.3503


230.7995, 0.4412,  
0.3594


 9.6997, 0.6356,  
0.3373


 37.0279, 0.5410,  
0.3609


 5.2003, 0.6839,  
0.3161

 52.0286, 0.5191,  
0.3625


 2.3653, 0.7272,  
0.2728

 70.6156, 0.5007,  
0.3630

 0.8079, 0.7918,  
0.2082

 93.1734, 0.4851,  
0.3627

 0.0000, 1.0000,  
0.0000


 120.0863, 0.4717,  
0.3621

 0.0000, 0.0000,  
0.0000


 151.7387, 0.4601,

0.3613


 188.5149, 0.4500,  
0.3603

 16.2478, 0.5983,  
0.3503


 16.2478, 0.5983,  
0.3503


 14.8651, 0.6229,  
0.3436


 18.2592, 0.5636,  
0.3551

 14.8586, 0.6230,  
0.3435

 20.9697, 0.5225,  
0.3567

 24.4389, 0.4801,  
0.3554

 28.7187, 0.4403,  
0.3522

 33.8565, 0.4052,  
0.3479

■ 39.8961, 0.3752,  
0.3430

■ 46.8781, 0.3503,  
0.3381

■ 54.8407, 0.3296,  
0.3334

■ 63.8199, 0.3126,  
0.3290

# Harmonies

## Analogous

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



16.2478, 0.5476, 0.2720



16.2478, 0.5983, 0.3503



16.2478, 0.5450, 0.4435

# Triad

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



16.2478, 0.5983, 0.3503



16.2478, 0.1924, 0.5349



16.2478, 0.1496, 0.1318

# Complementary

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



16.2478, 0.5983, 0.3503



35.8258, 0.2121, 0.2778

# 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.



16.2478, 0.1027, 0.1431



16.2478, 0.5983, 0.3503



16.2478, 0.1156, 0.3317

# Square

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



16.2478, 0.5983, 0.3503



16.2478, 0.3095, 0.6241



16.2478, 0.0909, 0.1984



16.2478, 0.2459, 0.1517



# Rectangle

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



16.2478, 0.5983, 0.3503



16.2478, 0.4769, 0.5181



16.2478, 0.0909, 0.1984



16.2478, 0.1294, 0.1319

# Sweetspot

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



16.2488, 0.5983, 0.3503



65.3040, 0.3682, 0.3417



17.2948, 0.3626, 0.1814



13.2138, 0.3775, 0.3434



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.



16.2488, 0.5983, 0.3503



23.1164, 0.6245, 0.3423



34.2749, 0.4810, 0.4485



12.1387, 0.3286, 0.3331



9.2624, 0.6210, 0.3451



0.6227, 0.5875, 0.3717

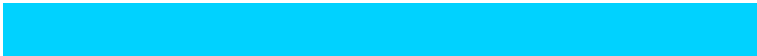


# Inverse Universe

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



35.8258, 0.2121, 0.2778



53.4453, 0.2086, 0.2708



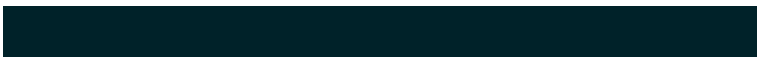
11.0552, 0.1707, 0.1261



13.0395, 0.2983, 0.3248



21.2389, 0.2090, 0.2724



1.2824, 0.2122, 0.2839



# Previews

## White Background



This preview shows how the Yxy color 16.2478, 0.5983, 0.3503 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 16.2478, 0.5983, 0.3503 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

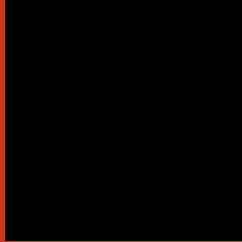
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 16.2478, 0.5983, 0.3503**

## Background



This preview shows how black text looks on a background with the Yxy color 16.2478, 0.5983, 0.3503.



This preview shows how white text looks on a background with the Yxy color 16.2478, 0.5983, 0.3503.

# 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

16.2478, 0.5983, 0.3503

### Protanopia

16.4436, 0.4229, 0.4648

### Deuteranopia

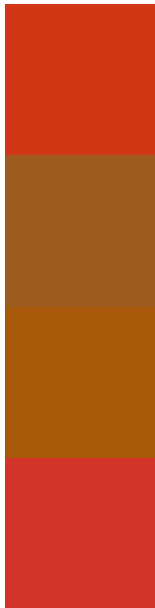
16.3550, 0.4709, 0.4643



## Tritanopia

16.3172, 0.5722, 0.3290

# Trichromacy



**Original Color**

16.2478, 0.5983, 0.3503

**Protanomaly**

14.9161, 0.4985, 0.4138

**Deuteranomaly**

15.2125, 0.5288, 0.4131

**Tritanomaly**

16.3177, 0.5842, 0.3379

# Monochromacy



**Original Color**

16.2478, 0.5983, 0.3503

**Achromatopsia**

11.9538, 0.3127, 0.3290

**Achromatomaly**

11.7178, 0.4348, 0.3514

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.2478, 0.5983, 0.3503 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(209, 54, 21)` looks like.

```
.text, #text, p{  
    color:rgb(209, 54, 21)  
}
```

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(209, 54, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 54, 21) }
```

## Border

The CSS property to change the border of an element to Yxy 16.2478, 0.5983, 0.3503 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(209, 54, 21) }
```

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

```
.border{ border-color:rgb(209, 54, 21) }
```

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

Here you see how a box with a 4 pixel rgb(209, 54, 21) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 54, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 54, 21);  
box-shadow:4px 4px 4px 4px rgb(209, 54,  
21) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.2478, 0.5983, 0.3503 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 54, 21) }
```

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

```
.background{ background-color: rgb(209, 54,  
21) }
```

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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