

# Converting Colors

$Y_{xy}(13.7348, 0.6104, 0.3535)$

Have a look what the booklet for  
Yxy(13.7348, 0.6104, 0.3535)  
contains.

<b>Yxy(13.7688, 0.6105, 0.3535)</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(13.7688, 0.6105, 0.3535)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C42F00
RGB	196, 47, 0
RGB Percent	77%, 18%, 0%
CMY	0.2314, 0.8156, 1.0000
CMYK	0.00, 0.76, 1.00, 0.23
HSL	14°, 100%, 38%
HSV	14°, 100%, 77%
XYZ	23.7789, 13.7688, 1.4022
YIQ	86.1930, 103.8910, 16.9710

# Conversions

## Conversions Part 2

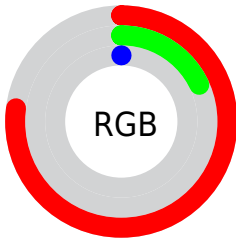
Format	Color
<a href="#">RYB</a>	<a href="#">196, 62, 0</a>
Decimal	<a href="#">12857088</a>
CIELab	<a href="#">43.90, 56.87, 56.40</a>
CIElCh	<a href="#">44, 80.091, 44.761</a>
Yxy	<a href="#">13.7688, 0.6105, 0.3535</a>
Android (android.graphics.Color)	<a href="#">4291047168</a> ( <a href="#">0xFFC42F00</a> )
YUV	<a href="#">86.1930, -42.4931, 96.3007</a>
Hunter-Lab	<a href="#">37.1063, 49.4525, 23.7339</a>

# Details

The Yxy color **13.7688, 0.6105, 0.3535** 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 **25.4656, 0.2026, 0.2491**, and the grayscale version is **9.4282, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.6390, 0.5471, 0.3685**, and **4.9865, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **13.7698, 0.6105, 0.3535**, and if you desaturate by 10%, it is **15.2207, 0.5843, 0.3615**.

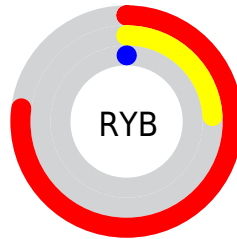
# Distribution



Red (77%)

Green (18%)

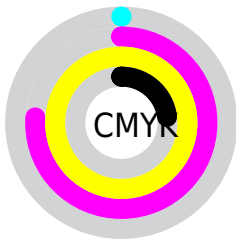
Blue (0%)



Red (77%)

Yellow (24%)

Blue (0%)

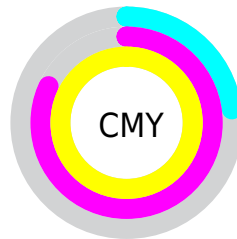


Cyan (0%)

Magenta (76%)

Yellow (100%)

Black (23%)



Cyan (23%)

Magenta (82%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.7688, 0.6105, 0.3535 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 13.7688, 0.6105, 0.3535 by changing the saturation by 10% instead.





 13.7688, 0.6105,  
0.3535

 13.7688, 0.6105,  
0.3535


 215.7877, 0.4461,  
0.3644


 7.9600, 0.6537,  
0.3402


 32.6782, 0.5511,  
0.3666


 4.0694, 0.6913,  
0.3087


 46.5477, 0.5282,  
0.3685

 1.7125, 0.7400,  
0.2600


 63.8728, 0.5088,  
0.3690

 0.4317, 0.8364,  
0.1636

 85.0381, 0.4923,  
0.3686

 0.0000, 1.0000,  
0.0000


 110.4278, 0.4782,  
0.3678


 0.0000, 0.0000,  
0.0000


 140.4264, 0.4660,

0.3668


 175.4182, 0.4554,  
0.3656


 13.7688, 0.6105,  
0.3535


 13.7688, 0.6105,  
0.3535


 13.7698, 0.6105,  
0.3535

 15.2207, 0.5843,  
0.3615

 17.1651, 0.5504,  
0.3665

 19.6536, 0.5115,  
0.3676

 22.7252, 0.4721,  
0.3653

 26.4150, 0.4350,  
0.3606

■ 30.7554, 0.4020,  
0.3546

■ 35.7761, 0.3736,  
0.3480

■ 41.5054, 0.3496,  
0.3414

■ 47.9695, 0.3295,  
0.3350

# Harmonies

## Analogous

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



13.7688, 0.5720, 0.2739



13.7688, 0.6105, 0.3535



13.7688, 0.5460, 0.4540

# Triad

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



13.7688, 0.6105, 0.3535



13.7688, 0.1743, 0.5329



13.7688, 0.1487, 0.1246

# Complementary

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



13.7688, 0.6105, 0.3535



25.4656, 0.2026, 0.2491

# 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.



13.7688, 0.0975, 0.1324



13.7688, 0.6105, 0.3535



13.7688, 0.1020, 0.3129

# Square

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



13.7688, 0.6105, 0.3535



13.7688, 0.2923, 0.6441



13.7688, 0.0823, 0.1827



13.7688, 0.2536, 0.1475



# Rectangle

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



13.7688, 0.6105, 0.3535



13.7688, 0.4678, 0.5322



13.7688, 0.0823, 0.1827



13.7688, 0.1268, 0.1236

# Sweetspot

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



13.7698, 0.6105, 0.3535



64.3627, 0.3748, 0.3483



13.9444, 0.3907, 0.1926



12.9149, 0.3865, 0.3512



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.



13.7698, 0.6105, 0.3535



24.6183, 0.6129, 0.3516



31.5973, 0.4761, 0.4602



10.4616, 0.3283, 0.3346



8.9626, 0.6081, 0.3553



0.4985, 0.5633, 0.3909

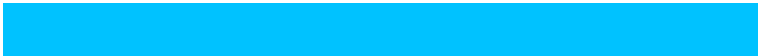


# Inverse Universe

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



25.4656, 0.2026, 0.2491



45.7169, 0.2022, 0.2478



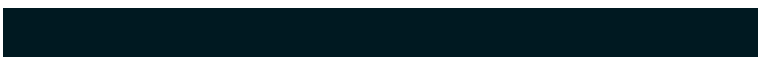
6.4645, 0.1588, 0.0916



11.0055, 0.2984, 0.3233



16.5039, 0.2029, 0.2504



0.8143, 0.2083, 0.2699



# Previews

## White Background



This preview shows how the Yxy color 13.7688, 0.6105, 0.3535 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 13.7688, 0.6105, 0.3535 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

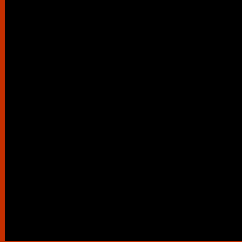
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 13.7688, 0.6105, 0.3535**

## Background



This preview shows how black text looks on a background with the Yxy color 13.7688, 0.6105, 0.3535.



This preview shows how white text looks on a background with the Yxy color 13.7688, 0.6105, 0.3535.

# 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

13.7688, 0.6105, 0.3535

### Protanopia

14.0166, 0.4291, 0.4745

### Deuteranopia

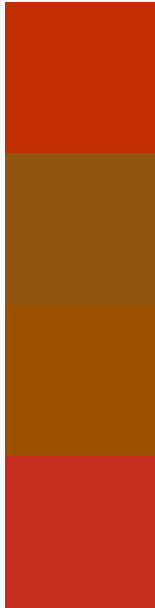
14.0199, 0.4682, 0.4664



**Tritanopia**

13.8611, 0.5791, 0.3290

# Trichromacy



## Original Color

13.7688, 0.6105, 0.3535

## Protanomaly

12.4861, 0.5094, 0.4209

## Deuteranomaly

12.8534, 0.5322, 0.4156

## Tritanomaly

13.8358, 0.5960, 0.3410

# Monochromacy



## Original Color

13.7688, 0.6105, 0.3535

## Achromatopsia

9.3059, 0.3127, 0.3290

## Achromatomaly

9.3462, 0.4507, 0.3628

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.7688, 0.6105, 0.3535 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(196, 47, 0)` looks like.

```
.text, #text, p{  
    color:rgb(196, 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(196, 47, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 47, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 13.7688, 0.6105, 0.3535 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(196, 47, 0) }
```

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

```
.border{ border-color:rgb(196, 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(196, 47, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 47, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 47, 0);  
box-shadow:4px 4px 4px 4px rgb(196, 47, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 13.7688, 0.6105, 0.3535 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 47, 0) }
```

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

```
.background{ background-color: rgb(196, 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