

# Converting Colors

$Y_{xy}(12.4714, 0.5827, 0.3755)$

Have a look what the booklet for  
Yxy(12.4714, 0.5827, 0.3755)  
contains.

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**Color**

**Yxy(12.4514, 0.5831, 0.3752)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AF3D00
RGB	175, 61, 0
RGB Percent	69%, 24%, 0%
CMY	0.3137, 0.7608, 0.9999
CMYK	0.00, 0.65, 1.00, 0.31
HSL	21°, 100%, 34%
HSV	21°, 100%, 69%
XYZ	19.3508, 12.4514, 1.3839
YIQ	88.1320, 87.5250, 5.1970

# Conversions

## Conversions Part 2

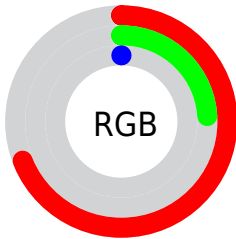
Format	Color
R <sub>YB</sub>	175, 94, 0
Decimal	11484416
CIE Lab	41.92, 44.47, 53.20
CIE LCh	42, 69.333, 50.108
Yxy	12.4514, 0.5831, 0.3752
Android (android.graphics.Color)	4289674496 (0xFFAF3D00)
YUV	88.1320, -43.4491, 76.1832
Hunter-Lab	35.2865, 36.1361, 22.3754

# Details

The Yxy color **12.4514, 0.5831, 0.3752** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **15.1404, 0.1920, 0.2113**, and the grayscale version is **9.8716, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.2632, 0.5274, 0.3813**, and **3.5774, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **12.4510, 0.5831, 0.3752**, and if you desaturate by 10%, it is **13.8436, 0.5571, 0.3831**.

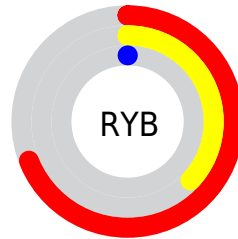
# Distribution



Red (69%)

Green (24%)

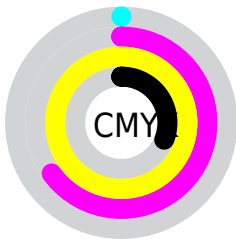
Blue (0%)



Red (69%)

Yellow (37%)

Blue (0%)

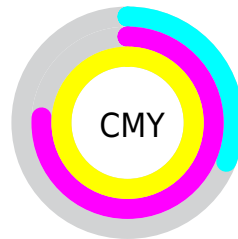


Cyan (0%)

Magenta (65%)

Yellow (100%)

Black (31%)



Cyan (31%)

Magenta (76%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.4514, 0.5831, 0.3752 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 12.4514, 0.5831, 0.3752 by changing the saturation by 10% instead.





 12.4514, 0.5831,  
0.3752


 12.4514, 0.5831,  
0.3752


 207.3712, 0.4304,  
0.3699


 7.0519, 0.6262,  
0.3671


 30.3146, 0.5267,  
0.3817


 3.4946, 0.6617,  
0.3383

 43.5471, 0.5053,  
0.3812


 1.3951, 0.7094,  
0.2906

 60.1594, 0.4874,  
0.3797

 0.2131, 0.8655,  
0.1345

 80.5358, 0.4723,  
0.3779

 0.0000, 1.0000,  
0.0000


 105.0608, 0.4594,  
0.3758

 0.0000, 0.0000,  
0.0000


 134.1188, 0.4484,


0.3738

 168.0941, 0.4388,  
0.3718


 12.4514, 0.5831,  
0.3752


 12.4514, 0.5831,  
0.3752

 12.4510, 0.5831,  
0.3752

 13.8436, 0.5571,  
0.3831

 15.5463, 0.5263,  
0.3871

 17.5890, 0.4924,  
0.3863

 19.9913, 0.4582,  
0.3816

 22.7712, 0.4258,  
0.3743

■ 25.9454, 0.3964,  
0.3655

■ 29.5294, 0.3706,  
0.3561

■ 33.5378, 0.3482,  
0.3467

■ 37.9844, 0.3290,  
0.3376

# Harmonies

## Analogous

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



12.4514, 0.5627, 0.2954



12.4514, 0.5831, 0.3752



12.4514, 0.5167, 0.4727

# Triad

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



12.4514, 0.5831, 0.3752



12.4514, 0.1728, 0.4743



12.4514, 0.1746, 0.1397

# Complementary

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



12.4514, 0.5831, 0.3752



15.1404, 0.1920, 0.2113

# 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.



12.4514, 0.1169, 0.1425



12.4514, 0.5831, 0.3752



12.4514, 0.1112, 0.2896

# Square

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



12.4514, 0.5831, 0.3752



12.4514, 0.2809, 0.6064



12.4514, 0.0969, 0.1836



12.4514, 0.2836, 0.1671



# Rectangle

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



12.4514, 0.5831, 0.3752



12.4514, 0.4445, 0.5432



12.4514, 0.0969, 0.1836



12.4514, 0.1504, 0.1372

# Sweetspot

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



12.4521, 0.5831, 0.3752



52.5180, 0.3718, 0.3566



10.3931, 0.4268, 0.2125



11.0669, 0.3822, 0.3605



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



12.4521, 0.5831, 0.3752



21.9252, 0.5861, 0.3728



29.6273, 0.4520, 0.4793



8.4547, 0.3278, 0.3370



9.0203, 0.5810, 0.3769



0.3551, 0.5229, 0.4230



# Inverse Universe

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



15.1404, 0.1920, 0.2113



26.6847, 0.1914, 0.2091



3.9836, 0.1542, 0.0751



8.5952, 0.2986, 0.3209



10.9577, 0.1924, 0.2127



0.4020, 0.2034, 0.2521



# Previews

## White Background



This preview shows how the Yxy color 12.4514, 0.5831, 0.3752 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

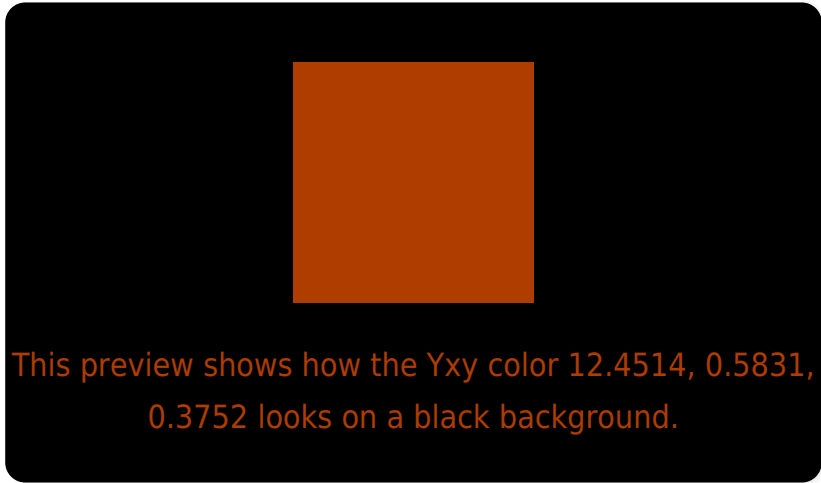
Any Text WCAG AA ✓ Pass

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

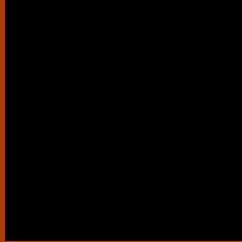
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 12.4514, 0.5831, 0.3752**

## **Background**



This preview shows how black text looks on a background with the Yxy color 12.4514, 0.5831, 0.3752.



This preview shows how white text looks on a background with the Yxy color 12.4514, 0.5831, 0.3752.

# 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

12.4514, 0.5831, 0.3752

### Protanopia

12.6687, 0.4321, 0.4770

### Deuteranopia

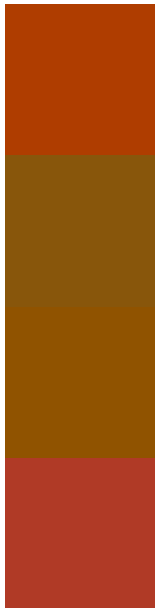
12.6200, 0.4688, 0.4660



## Tritanopia

12.4826, 0.5272, 0.3260

# Trichromacy



## Original Color

12.4514, 0.5831, 0.3752

## Protanomaly

11.9140, 0.4950, 0.4355

## Deuteranomaly

12.1158, 0.5161, 0.4284

## Tritanomaly

12.3962, 0.5592, 0.3507

# Monochromacy



## Original Color

12.4514, 0.5831, 0.3752

## Achromatopsia

9.7587, 0.3127, 0.3290

## Achromatomaly

9.7274, 0.4311, 0.3750

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 12.4514, 0.5831, 0.3752 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(175, 61, 0)` looks like.

```
.text, #text, p{  
    color:rgb(175, 61, 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(175, 61, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 61, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 12.4514, 0.5831, 0.3752 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(175, 61, 0) }
```

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

```
.border{ border-color:rgb(175, 61, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 61, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 61, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 61, 0);  
box-shadow:4px 4px 4px 4px rgb(175, 61, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 12.4514, 0.5831, 0.3752 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 61, 0) }
```

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

```
.background{ background-color: rgb(175, 61,  
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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