

# Converting Colors

$Y_{xy}(53.8447, 0.4835, 0.4522)$

Have a look what the booklet for  
Yxy(53.8447, 0.4835, 0.4522)  
contains.

<b>Yxy(53.9244, 0.4834, 0.4524)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(53.9244, 0.4834, 0.4524)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB40A
RGB	255, 180, 10
RGB Percent	100%, 71%, 4%
CMY	0.0000, 0.2941, 0.9616
CMYK	0.00, 0.29, 0.96, 0.00
HSL	42°, 100%, 52%
HSV	42°, 96%, 100%
XYZ	57.6195, 53.9244, 7.6524
YIQ	183.0450, 99.2700, -36.9700

# Conversions

## Conversions Part 2

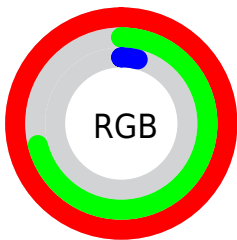
Format	Color
R <sub>Y</sub> B	118, 255, 10
Decimal	16757770
CIE Lab	78.42, 16.20, 80.25
CIE LCh	78, 81.871, 78.590
Yxy	53.9244, 0.4834, 0.4524
Android (android.graphics.Color)	4294947850 (0xFFFFB40A)
YUV	183.0450, -85.3112, 63.1045
Hunter-Lab	73.4332, 11.5521, 45.2247

# Details

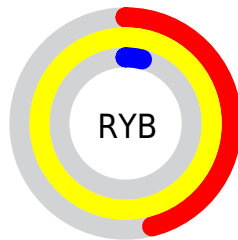
The Yxy color **53.9244, 0.4834, 0.4524** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle saturated orange. A complement of this color would be **13.7485, 0.1630, 0.1047**, and the grayscale version is **47.8033, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.9068, 0.4156, 0.4671**, and **26.6448, 0.4935, 0.4464** is the 20% darker color. If you saturate the color by 10%, you get **52.7057, 0.4875, 0.4511**, and if you desaturate by 10%, it is **57.2643, 0.4711, 0.4535**.

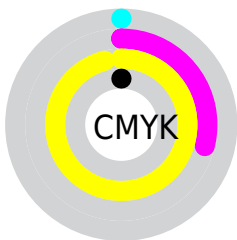
# Distribution



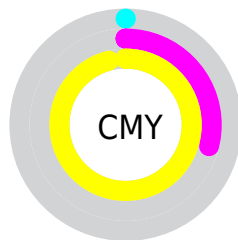
- Red (100%)
- Green (71%)
- Blue (4%)



- Red (46%)
- Yellow (100%)
- Blue (4%)



- Cyan (0%)
- Magenta (29%)
- Yellow (96%)
- Black (0%)




- Cyan (0%)
- Magenta (29%)
- Yellow (96%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 53.9244, 0.4834, 0.4524 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 53.9244, 0.4834, 0.4524 by changing the saturation by 10% instead.





 53.9244, 0.4834,  
0.4524

 53.9244, 0.4834,  
0.4524


401.8217, 0.4097,  
0.4057

 38.5412, 0.4965,  
0.4584


 95.9632, 0.4604,  
0.4397


 26.4030, 0.5103,  
0.4632


 123.3877, 0.4506,  
0.4336


 17.1254, 0.5265,  
0.4673


 155.5947, 0.4418,  
0.4280

 10.3239, 0.5373,  
0.4627

 192.9686, 0.4340,  
0.4227

 5.6143, 0.5481,  
0.4519

 235.8939, 0.4269,  
0.4179

 2.6120, 0.5646,  
0.4354

 284.7549, 0.4206,

 0.9327, 0.5935,

0.4135

0.4065

339.9360, 0.4149,  
0.4095

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 53.9244, 0.4834,  
0.4524

■ 53.9244, 0.4834,  
0.4524

■ 52.7057, 0.4875,  
0.4511


■ 57.2643, 0.4711,  
0.4535

■ 60.8944, 0.4555,  
0.4494


■ 64.8376, 0.4374,  
0.4404

■ 69.1129, 0.4175,  
0.4275

 73.7372, 0.3970,  
0.4117

 78.7251, 0.3767,  
0.3941

 84.0905, 0.3572,  
0.3757

 89.8461, 0.3390,  
0.3574

 96.0037, 0.3222,  
0.3396

# Harmonies

## Analogous

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



53.9244, 0.5226, 0.3780



53.9244, 0.4834, 0.4524



53.9244, 0.4026, 0.5168

# Triad

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



53.9244, 0.4834, 0.4524



53.9244, 0.1572, 0.3120



53.9244, 0.2883, 0.1990

# Complementary

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



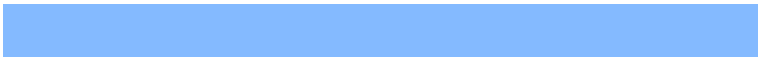
53.9244, 0.4834, 0.4524



13.7485, 0.1630, 0.1047

# 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.



53.9244, 0.2027, 0.1769



53.9244, 0.4834, 0.4524



53.9244, 0.1388, 0.2240

# Square

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



53.9244, 0.4834, 0.4524



53.9244, 0.2150, 0.4373



53.9244, 0.1540, 0.1830



53.9244, 0.3999, 0.2452



# Rectangle

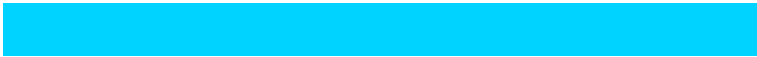
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



53.9244, 0.4834, 0.4524



53.9244, 0.3383, 0.5322



53.9244, 0.1540, 0.1830



53.9244, 0.2557, 0.1887

# Sweetspot

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



53.9242, 0.4834, 0.4524



82.5262, 0.3626, 0.3810



22.1681, 0.5641, 0.2903



17.1741, 0.3709, 0.3888



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.



53.9242, 0.4834, 0.4524



52.7057, 0.4875, 0.4511



85.2499, 0.3874, 0.5292



20.0979, 0.3277, 0.3454



27.8162, 0.4861, 0.4522



2.9017, 0.4766, 0.4598



# Inverse Universe

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



13.7485, 0.1630, 0.1047



12.6683, 0.1605, 0.0979



8.2380, 0.1602, 0.0669



18.2837, 0.2979, 0.3120



6.8491, 0.1613, 0.1007



0.8501, 0.1674, 0.1227



# Previews

## White Background



This preview shows how the Yxy color 53.9244, 0.4834, 0.4524 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 53.9244, 0.4834, 0.4524 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 ✓ Pass

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

**Yxy 53.9244, 0.4834, 0.4524**

## **Background**



This preview shows how black text looks on a background with the Yxy color 53.9244, 0.4834, 0.4524.



This preview shows how white text looks on a background with the Yxy color 53.9244, 0.4834, 0.4524.

# 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

53.9244, 0.4834, 0.4524

### Protanopia

54.1340, 0.4383, 0.4859

### Deuteranopia

53.8738, 0.4733, 0.4624



## Tritanopia

53.7632, 0.3796, 0.3176

# Trichromacy



## Original Color

53.9244, 0.4834, 0.4524

## Protanomaly

54.0172, 0.4544, 0.4741

## Deuteranomaly

54.0155, 0.4763, 0.4592

## Tritanomaly

52.8640, 0.4356, 0.3856

# Monochromacy



## Original Color

53.9244, 0.4834, 0.4524

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

48.3673, 0.3886, 0.4050

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 53.9244, 0.4834, 0.4524 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(255, 180, 10)` looks like.

```
.text, #text, p{  
    color:rgb(255, 180, 10)  
}
```

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(255, 180, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 180, 10) }
```

## Border

The CSS property to change the border of an element to Yxy 53.9244, 0.4834, 0.4524 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(255, 180, 10) }
```

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

```
.border{ border-color:rgb(255, 180, 10) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 180, 10)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 180, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 180, 10);  
box-shadow:4px 4px 4px 4px rgb(255, 180,  
10) }
```



# Background

The CSS property to change the background color of an element to Yxy 53.9244, 0.4834, 0.4524 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 180, 10) }
```

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

```
.background{ background-color: rgb(255,  
180, 10) }
```

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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