

# Converting Colors

$Y_{xy}(44.3957, 0.5081, 0.4340)$

Have a look what the booklet for  
Yxy(44.3957, 0.5081, 0.4340)  
contains.

<b>Yxy(44.4790, 0.5080, 0.4341)</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(44.4790, 0.5080, 0.4341)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FC9C03
RGB	252, 156, 3
RGB Percent	99%, 61%, 1%
CMY	0.0118, 0.3882, 0.9876
CMYK	0.00, 0.38, 0.99, 0.01
HSL	37°, 98%, 50%
HSV	37°, 99%, 99%
XYZ	52.0510, 44.4790, 5.9326
YIQ	167.2620, 106.3290, -27.2310

# Conversions

## Conversions Part 2

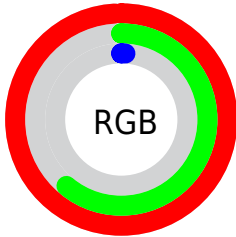
Format	Color
<a href="#">RYB</a>	<a href="#">159, 252, 3</a>
Decimal	<a href="#">16555011</a>
CIELab	<a href="#">72.55, 27.40, 76.85</a>
CIElCh	<a href="#">73, 81.586, 70.375</a>
Yxy	<a href="#">44.4790, 0.5080, 0.4341</a>
Android (android.graphics.Color)	<a href="#">4294745091</a> ( <a href="#">0xFFFC9C03</a> )
YUV	<a href="#">167.2620, -80.9812, 74.3152</a>
Hunter-Lab	<a href="#">66.6926, 22.6003, 41.4107</a>

# Details

The Yxy color **44.4790, 0.5080, 0.4341** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **16.0041, 0.1672, 0.1211**, and the grayscale version is **39.1533, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.4130, 0.4353, 0.4516**, and **20.7194, 0.5262, 0.4204** is the 20% darker color. If you saturate the color by 10%, you get **44.0658, 0.5098, 0.4334**, and if you desaturate by 10%, it is **47.9547, 0.4929, 0.4382**.

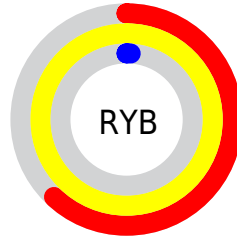
# Distribution



Red (99%)

Green (61%)

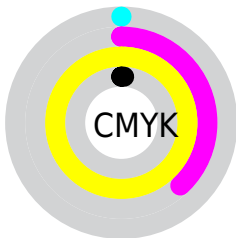
Blue (1%)



Red (62%)

Yellow (99%)

Blue (1%)

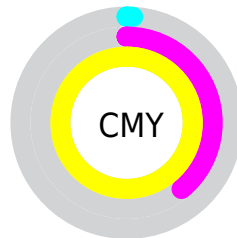


Cyan (0%)

Magenta (38%)

Yellow (99%)

Black (1%)



Cyan (1%)

Magenta (39%)


Yellow (99%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.4790, 0.5080, 0.4341 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 44.4790, 0.5080, 0.4341 by changing the saturation by 10% instead.




 44.4790, 0.5080,  
0.4341

 44.4790, 0.5080,  
0.4341


364.6594, 0.4196,  
0.3975

 31.0473, 0.5245,  
0.4370


 81.9380, 0.4797,  
0.4255


 20.6348, 0.5423,  
0.4373


 106.7341, 0.4678,  
0.4208

 12.8573, 0.5643,  
0.4357


 136.0871, 0.4573,  
0.4163

 7.3304, 0.5789,  
0.4211

 170.3814, 0.4480,  
0.4120

 3.6696, 0.6004,  
0.3996

 210.0014, 0.4397,  
0.4080

 1.4905, 0.6347,  
0.3653

 255.3314, 0.4323,

 0.2820, 0.7693,

0.4042

0.2307

306.7560, 0.4256,  
0.4007

0.0000, 0.0000,  
0.0000

44.4790, 0.5080,  
0.4341

44.4790, 0.5080,  
0.4341

44.0658, 0.5098,  
0.4334

47.9547, 0.4929,  
0.4382

51.7931, 0.4745,  
0.4371

56.0264, 0.4533,  
0.4309

60.6768, 0.4305,  
0.4204

65.7638, 0.4074,  
0.4068

71.3049, 0.3849,  
0.3913

77.3164, 0.3637,  
0.3749

83.8132, 0.3442,  
0.3584

90.8096, 0.3266,  
0.3424

# Harmonies

## Analogous

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



44.4790, 0.5340, 0.3573



44.4790, 0.5080, 0.4341



44.4790, 0.4308, 0.5099

# Triad

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



44.4790, 0.5080, 0.4341



44.4790, 0.1613, 0.3445



44.4790, 0.2580, 0.1840

# Complementary

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



44.4790, 0.5080, 0.4341



16.0041, 0.1672, 0.1211

# 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.



44.4790, 0.1795, 0.1686



44.4790, 0.5080, 0.4341



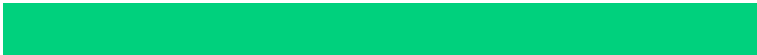
44.4790, 0.1323, 0.2373

# Square

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



44.4790, 0.5080, 0.4341



44.4790, 0.2322, 0.4795



44.4790, 0.1392, 0.1832



44.4790, 0.3716, 0.2255



# Rectangle

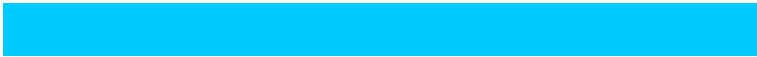
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



44.4790, 0.5080, 0.4341



44.4790, 0.3655, 0.5421



44.4790, 0.1392, 0.1832



44.4790, 0.2273, 0.1758

# Sweetspot

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



44.4813, 0.5080, 0.4341



78.6087, 0.3663, 0.3770



21.7378, 0.5390, 0.2750



16.2607, 0.3751, 0.3839



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.



44.4813, 0.5080, 0.4341



45.2469, 0.5099, 0.4334



85.9784, 0.4016, 0.5189



19.0004, 0.3278, 0.3435



23.2486, 0.5079, 0.4349



2.3586, 0.4944, 0.4456



# Inverse Universe

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



16.0041, 0.1672, 0.1211



16.0259, 0.1663, 0.1187



7.3448, 0.1533, 0.0622



17.7409, 0.2979, 0.3140



8.3997, 0.1672, 0.1219



0.9764, 0.1737, 0.1454



# Previews

## White Background



This preview shows how the Yxy color 44.4790, 0.5080, 0.4341 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 44.4790, 0.5080, 0.4341 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 44.4790, 0.5080, 0.4341**

## Background



This preview shows how black text looks on a background with the Yxy color 44.4790, 0.5080, 0.4341.



This preview shows how white text looks on a background with the Yxy color 44.4790, 0.5080, 0.4341.

# 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

44.4790, 0.5080, 0.4341

### Protanopia

44.7047, 0.4376, 0.4851

### Deuteranopia

44.5447, 0.4731, 0.4626



## Tritanopia

44.5618, 0.4132, 0.3188

# Trichromacy



## Original Color

44.4790, 0.5080, 0.4341

## Protanomaly

44.3705, 0.4641, 0.4664

## Deuteranomaly

44.2153, 0.4860, 0.4520

## Tritanomaly

43.8231, 0.4672, 0.3782

# Monochromacy



## Original Color

44.4790, 0.5080, 0.4341

## Achromatopsia

38.6429, 0.3127, 0.3290

## Achromatomaly

39.2617, 0.3995, 0.4017

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.4790, 0.5080, 0.4341 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(252, 156, 3)` looks like.

```
.text, #text, p{  
    color:rgb(252, 156, 3)  
}
```

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(252, 156, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 156, 3) }
```

## Border

The CSS property to change the border of an element to Yxy 44.4790, 0.5080, 0.4341 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(252, 156, 3) }
```

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

```
.border{ border-color:rgb(252, 156, 3) }
```

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

Here you see how a box with a 4 pixel rgb(252, 156, 3) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 156, 3); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 156, 3);  
box-shadow:4px 4px 4px 4px rgb(252, 156,  
3) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.4790, 0.5080, 0.4341 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 156, 3) }
```

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

```
.background{ background-color: rgb(252,  
156, 3) }
```

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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