

# Converting Colors

$Y_{xy}(44.5411, 0.4930, 0.4095)$

Have a look what the booklet for  
Yxy(44.5411, 0.4930, 0.4095)  
contains.

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# Color

**Yxy(44.4126, 0.4933, 0.4091)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9940
RGB	255, 153, 64
RGB Percent	100%, 60%, 25%
CMY	0.0000, 0.3999, 0.7491
CMYK	0.00, 0.40, 0.75, 0.00
HSL	28°, 100%, 63%
HSV	28°, 75%, 100%
XYZ	53.5535, 44.4126, 10.5956
YIQ	173.3520, 89.3610, -6.0550

# Conversions

## Conversions Part 2

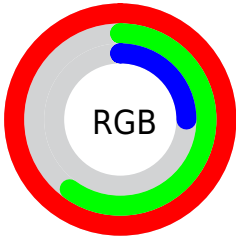
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">255, 231, 64</a>
Decimal	<a href="#">16750912</a>
CIELab	<a href="#">72.50, 31.49, 60.60</a>
CIElCh	<a href="#">73, 68.293, 62.541</a>
Yxy	<a href="#">44.4126, 0.4933, 0.4091</a>
Android (android.graphics.Color)	<a href="#">4294940992 (0xFFFF9940)</a>
YUV	<a href="#">173.3520, -53.9105, 71.6053</a>
Hunter-Lab	<a href="#">66.6428, 26.8160, 37.2233</a>

# Details

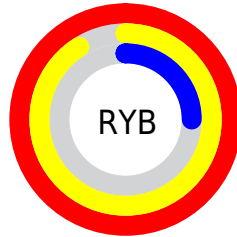
The Yxy color **44.4126, 0.4933, 0.4091** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **35.5618, 0.1999, 0.2104**, and the grayscale version is **42.2252, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.6561, 0.4161, 0.4202**, and **20.6448, 0.5343, 0.4140** is the 20% darker color. If you saturate the color by 10%, you get **39.9827, 0.5204, 0.4089**, and if you desaturate by 10%, it is **49.4881, 0.4641, 0.4043**.

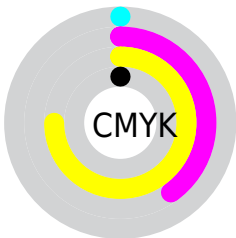
# Distribution



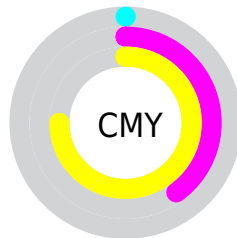
- Red (100%)
- Green (60%)
- Blue (25%)



- Red (100%)
- Yellow (91%)
- Blue (25%)



- Cyan (0%)
- Magenta (40%)
- Yellow (75%)
- Black (0%)




- Cyan (0%)
- Magenta (40%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.4126, 0.4933, 0.4091 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 44.4126, 0.4933, 0.4091 by changing the saturation by 10% instead.





 44.4126, 0.4933,  
0.4091


 44.4126, 0.4933,  
0.4091


364.3893, 0.4067,  
0.3794

 30.9950, 0.5119,  
0.4124


 81.8382, 0.4637,  
0.4013


 20.5950, 0.5337,  
0.4143

 106.6151, 0.4520,  
0.3974


 12.8283, 0.5586,  
0.4129


 135.9471, 0.4418,  
0.3938

 7.3104, 0.5915,  
0.4085


 170.2188, 0.4329,  
0.3904

 3.6570, 0.6155,  
0.3845

 209.8145, 0.4252,  
0.3873

 1.4836, 0.6533,  
0.3467

255.1185, 0.4183,

 0.2771, 0.7907,

0.3844

0.2093

306.5153, 0.4122,  
0.3818

■ 0.0000, 0.0000,  
0.0000

■ 44.4126, 0.4933,  
0.4091

■ 44.4126, 0.4933,  
0.4091

■ 39.9827, 0.5204,  
0.4089

■ 49.4881, 0.4641,  
0.4043

■ 36.1547, 0.5435,  
0.4031

■ 55.2344, 0.4348,  
0.3956

■ 34.4191, 0.5537,  
0.3986

■ 61.6832, 0.4069,  
0.3845

■ 68.8613, 0.3812,  
0.3721

■ 76.7942, 0.3583,  
0.3593

 85.5056, 0.3381,  
0.3467

 95.0183, 0.3205,  
0.3347

99.9982, 0.3127,  
0.3290

# Harmonies

## Analogous

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



44.4126, 0.4953, 0.3418



44.4126, 0.4933, 0.4091



44.4126, 0.4394, 0.4735

# Triad

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



44.4126, 0.4933, 0.4091



44.4126, 0.1963, 0.3730



44.4126, 0.2457, 0.1962

# Complementary

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



44.4126, 0.4933, 0.4091



35.5618, 0.1999, 0.2104

# 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.



44.4126, 0.1846, 0.1896



44.4126, 0.4933, 0.4091



44.4126, 0.1589, 0.2731

# Square

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



44.4126, 0.4933, 0.4091



44.4126, 0.2681, 0.4740



44.4126, 0.1561, 0.2126



44.4126, 0.3369, 0.2277



# Rectangle

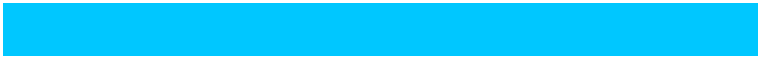
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



44.4126, 0.4933, 0.4091



44.4126, 0.3863, 0.5031



44.4126, 0.1561, 0.2126



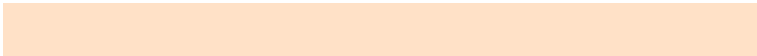
44.4126, 0.2216, 0.1911

# Sweetspot

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



44.4149, 0.4933, 0.4091



79.2567, 0.3521, 0.3556



27.7874, 0.4247, 0.2349



16.4743, 0.3579, 0.3591



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.



44.4149, 0.4933, 0.4091



37.9654, 0.5328, 0.4067



87.1990, 0.4167, 0.4848



19.3829, 0.3283, 0.3401



18.2786, 0.5510, 0.4007



1.9959, 0.5322, 0.4157



# Inverse Universe

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



35.5618, 0.1999, 0.2104



28.6191, 0.1859, 0.1831



13.1423, 0.1715, 0.0998



18.9837, 0.2979, 0.3176



13.2950, 0.1802, 0.1688



1.5133, 0.1857, 0.1884



# Previews

## White Background



This preview shows how the Yxy color 44.4126, 0.4933, 0.4091 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 44.4126, 0.4933, 0.4091 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 44.4126, 0.4933, 0.4091**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.4126, 0.4933, 0.4091.



This preview shows how white text looks on a background with the Yxy color 44.4126, 0.4933, 0.4091.

# 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

44.4126, 0.4933, 0.4091

### Protanopia

44.8372, 0.4160, 0.4570

### Deuteranopia

44.3797, 0.4536, 0.4434



## Tritanopia

44.5277, 0.4143, 0.3199

# Trichromacy



**Original Color**

44.4126, 0.4933, 0.4091

**Protanomaly**

44.2269, 0.4440, 0.4400

**Deuteranomaly**

44.1935, 0.4689, 0.4299

**Tritanomaly**

44.1850, 0.4478, 0.3561

# Monochromacy



**Original Color**

44.4126, 0.4933, 0.4091

**Achromatopsia**

41.7885, 0.3127, 0.3290

**Achromatomaly**

41.6624, 0.3789, 0.3715

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.4126, 0.4933, 0.4091 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, 153, 64)` looks like.

```
.text, #text, p{  
    color:rgb(255, 153, 64)  
}
```

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, 153, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 153, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 44.4126, 0.4933, 0.4091 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, 153, 64) }
```

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

```
.border{ border-color:rgb(255, 153, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 153, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 153, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 153, 64);  
box-shadow:4px 4px 4px 4px rgb(255, 153,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.4126, 0.4933, 0.4091 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 153, 64) }
```

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

```
.background{ background-color: rgb(255,  
153, 64) }
```

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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