

# Converting Colors

$Y_{xy}(34.1959, 0.5348, 0.3787)$

Have a look what the booklet for  
Yxy(34.1959, 0.5348, 0.3787)  
contains.

<b>Yxy(34.2681, 0.5345, 0.3791)</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(34.2681, 0.5345, 0.3791)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7538
RGB	255, 117, 56
RGB Percent	100%, 46%, 22%
CMY	0.0000, 0.5411, 0.7804
CMYK	0.00, 0.54, 0.78, 0.00
HSL	18°, 100%, 61%
HSV	18°, 78%, 100%
XYZ	48.3152, 34.2681, 7.8100
YIQ	151.3080, 101.8290, 10.2850

# Conversions

## Conversions Part 2

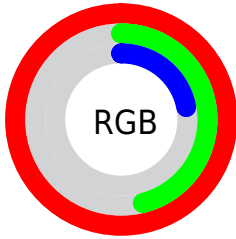
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 144, 56
Decimal	16741688
CIE <sub>Lab</sub>	65.17, 49.15, 56.86
CIE <sub>LCh</sub>	65, 75.157, 49.159
Yxy	34.2681, 0.5345, 0.3791
Android (android.graphics.Color)	4294931768 (0xFFFF7538)
YUV	151.3080, -46.9868, 90.9379
Hunter-Lab	58.5390, 44.8821, 33.0671

# Details

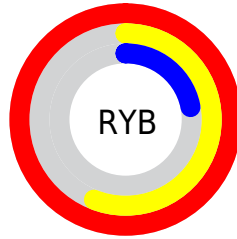
The Yxy color **34.2681, 0.5345, 0.3791** is a dark color, and the websafe version is hex **FF6633**, and the color name is **orange (crayola)**. The color can be described as middle washed orange. A complement of this color would be **46.6436, 0.2082, 0.2492**, and the grayscale version is **31.2609, 0.3127, 0.3290**.

A 20% lighter version of the original color is **51.8266, 0.4467, 0.3947**, and **14.6314, 0.5891, 0.3705** is the 20% darker color. If you saturate the color by 10%, you get **30.3417, 0.5675, 0.3745**, and if you desaturate by 10%, it is **39.1035, 0.4978, 0.3789**.

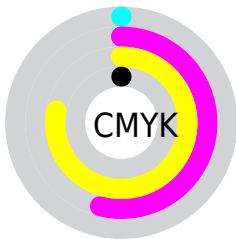
# Distribution



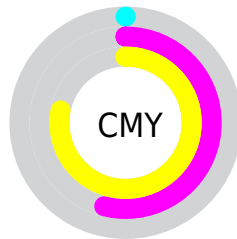
- Red (100%)
- Green (46%)
- Blue (22%)



- Red (100%)
- Yellow (56%)
- Blue (22%)



- Cyan (0%)
- Magenta (54%)
- Yellow (78%)
- Black (0%)




- Cyan (0%)
- Magenta (54%)
- Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.2681, 0.5345, 0.3791 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 34.2681, 0.5345, 0.3791 by changing the saturation by 10% instead.




 34.2681, 0.5345,  
0.3791


 34.2681, 0.5345,  
0.3791


321.3259, 0.4230,  
0.3668


 23.0996, 0.5596,  
0.3770


 66.3504, 0.4955,  
0.3784


 14.6671, 0.5892,  
0.3712


 88.0330, 0.4802,  
0.3770


 8.5861, 0.6277,  
0.3612


 113.9891, 0.4672,  
0.3753

 4.4722, 0.6643,  
0.3357

 144.6031, 0.4559,  
0.3735

 1.9411, 0.7077,  
0.2923

 180.2593, 0.4460,  
0.3717

 0.5729, 0.7861,  
0.2139

 221.3423, 0.4374,

 0.0000, 1.0000,

0.3700

0.0000

268.2363, 0.4298,  
0.3684

■ 0.0000, 0.0000,  
0.0000

■ 34.2681, 0.5345,  
0.3791

■ 34.2681, 0.5345,  
0.3791

■ 30.3417, 0.5675,  
0.3745

■ 39.1035, 0.4978,  
0.3789

■ 27.2517, 0.5934,  
0.3654

■ 44.8997, 0.4608,  
0.3749


■ 26.7329, 0.5979,  
0.3635

■ 51.7106, 0.4262,  
0.3684

■ 59.5842, 0.3952,  
0.3604

■ 68.5652, 0.3683,  
0.3519

 78.6956, 0.3454,  
0.3433

 90.0151, 0.3260,  
0.3352

99.9999, 0.3127,  
0.3290

# Harmonies

## Analogous

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



34.2681, 0.5070, 0.3065



34.2681, 0.5345, 0.3791



34.2681, 0.4898, 0.4576

# Triad

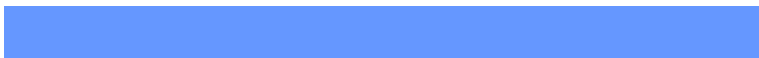
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



34.2681, 0.5345, 0.3791



34.2681, 0.2068, 0.4429



34.2681, 0.1978, 0.1697

# Complementary

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



34.2681, 0.5345, 0.3791



46.6436, 0.2082, 0.2492

# 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.



34.2681, 0.1468, 0.1748



34.2681, 0.5345, 0.3791



34.2681, 0.1480, 0.3074

# Square

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



34.2681, 0.5345, 0.3791



34.2681, 0.3009, 0.5389



34.2681, 0.1303, 0.2159



34.2681, 0.2883, 0.1931



# Rectangle

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



34.2681, 0.5345, 0.3791



34.2681, 0.4348, 0.5078



34.2681, 0.1303, 0.2159



34.2681, 0.1766, 0.1680

# Sweetspot

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



34.2700, 0.5345, 0.3791



73.5214, 0.3563, 0.3475



28.0427, 0.3891, 0.2077



14.9693, 0.3648, 0.3506



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.



34.2700, 0.5345, 0.3791



28.4036, 0.5839, 0.3695



70.2487, 0.4410, 0.4672



18.8951, 0.3287, 0.3363



14.1986, 0.5950, 0.3658



1.5659, 0.5729, 0.3833



# Inverse Universe

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



46.6436, 0.2082, 0.2492



40.5836, 0.1981, 0.2305



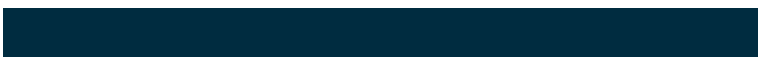
16.3912, 0.1744, 0.1199



19.4864, 0.2980, 0.3215



20.4444, 0.1960, 0.2255



2.1842, 0.1997, 0.2387



# Previews

## White Background



This preview shows how the Yxy color 34.2681, 0.5345, 0.3791 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 34.2681, 0.5345, 0.3791 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 34.2681, 0.5345, 0.3791**

## Background



This preview shows how black text looks on a background with the Yxy color 34.2681, 0.5345, 0.3791.



This preview shows how white text looks on a background with the Yxy color 34.2681, 0.5345, 0.3791.

# 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

34.2681, 0.5345, 0.3791

### Protanopia

34.4437, 0.4111, 0.4517

### Deuteranopia

34.4726, 0.4562, 0.4478



## Tritanopia

34.1803, 0.4754, 0.3226

# Trichromacy



## Original Color

34.2681, 0.5345, 0.3791

## Protanomaly

33.2958, 0.4581, 0.4228

## Deuteranomaly

33.7556, 0.4862, 0.4206

## Tritanomaly

34.1392, 0.5009, 0.3464

# Monochromacy



## Original Color

34.2681, 0.5345, 0.3791

## Achromatopsia

30.9469, 0.3127, 0.3290

## Achromatomaly

30.5450, 0.3946, 0.3612

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.2681, 0.5345, 0.3791 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, 117, 56)` looks like.

```
.text, #text, p{  
    color:rgb(255, 117, 56)  
}
```

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, 117, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 117, 56) }
```

## Border

The CSS property to change the border of an element to Yxy 34.2681, 0.5345, 0.3791 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, 117, 56) }
```

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

```
.border{ border-color:rgb(255, 117, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 117, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 117, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 117, 56);  
box-shadow:4px 4px 4px 4px rgb(255, 117,  
56) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.2681, 0.5345, 0.3791 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 117, 56) }
```

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

```
.background{ background-color: rgb(255,  
117, 56) }
```

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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