

# Converting Colors

$Y_{xy}(37.7410, 0.5102, 0.3896)$

Have a look what the booklet for  
Yxy(37.7410, 0.5102, 0.3896)  
contains.

<b>Yxy(37.8522, 0.5100, 0.3901)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# **Color**

**Yxy(37.8522, 0.5100, 0.3901)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FC8541
RGB	252, 133, 65
RGB Percent	99%, 52%, 25%
CMY	0.0118, 0.4784, 0.7452
CMYK	0.00, 0.47, 0.74, 0.01
HSL	22°, 97%, 62%
HSV	22°, 74%, 99%
XYZ	49.4863, 37.8522, 9.6935
YIQ	160.8290, 92.7520, 4.0800

# Conversions

## Conversions Part 2

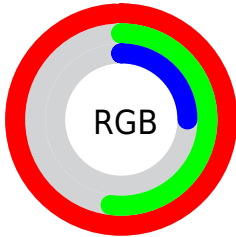
Format	Color
R <sub>Y</sub> B	252, 172, 65
Decimal	16549185
CIE Lab	67.91, 40.55, 55.37
CIE LCh	68, 68.633, 53.782
Yxy	37.8522, 0.5100, 0.3901
Android (android.graphics.Color)	4294739265 (0xFFFC8541)
YUV	160.8290, -47.2437, 79.9570
Hunter-Lab	61.5241, 35.9075, 33.7254

# Details

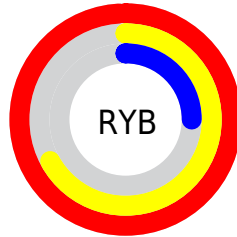
The Yxy color **37.8522, 0.5100, 0.3901** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **42.4151, 0.2076, 0.2388**, and the grayscale version is **35.7483, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.4874, 0.4290, 0.4023**, and **16.7256, 0.5583, 0.3893** is the 20% darker color. If you saturate the color by 10%, you get **33.5642, 0.5424, 0.3883**, and if you desaturate by 10%, it is **42.9445, 0.4756, 0.3872**.

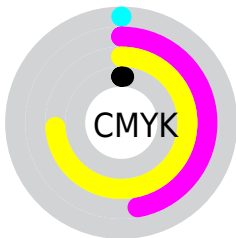
# Distribution



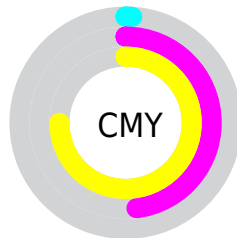
- Red (99%)
- Green (52%)
- Blue (25%)



- Red (99%)
- Yellow (67%)
- Blue (25%)



- Cyan (0%)
- Magenta (47%)
- Yellow (74%)
- Black (1%)




- Cyan (1%)
- Magenta (48%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.8522, 0.5100, 0.3901 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 37.8522, 0.5100, 0.3901 by changing the saturation by 10% instead.





 37.8522, 0.5100,  
0.3901


 37.8522, 0.5100,  
0.3901


336.9855, 0.4118,  
0.3699

 25.8680, 0.5322,  
0.3909


 71.8815, 0.4756,  
0.3858


 16.7249, 0.5586,  
0.3892


 94.6955, 0.4622,  
0.3833

 10.0386, 0.5901,  
0.3832


 121.8881, 0.4507,  
0.3807

 5.4245, 0.6299,  
0.3701

 153.8438, 0.4408,  
0.3783

 2.4984, 0.6646,  
0.3354

 190.9470, 0.4321,  
0.3760

 0.8759, 0.7200,  
0.2800

233.5821, 0.4245,

 0.0000, 1.0000,

0.3738

0.0000

282.1335, 0.4178,  
0.3718

■ 0.0000, 0.0000,  
0.0000

■ 37.8522, 0.5100,  
0.3901

■ 37.8522, 0.5100,  
0.3901

■ 33.5642, 0.5424,  
0.3883

■ 42.9445, 0.4756,  
0.3872

■ 30.0253, 0.5697,  
0.3812


■ 48.8786, 0.4419,  
0.3807


■ 28.2941, 0.5829,  
0.3753

■ 55.6966, 0.4106,  
0.3720

■ 63.4356, 0.3826,  
0.3622

■ 72.1302, 0.3582,  
0.3521

 81.8133, 0.3373,  
0.3422

 92.5160, 0.3194,  
0.3328

 99.4357, 0.3109,  
0.3290

# Harmonies

## Analogous

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



37.8522, 0.4937, 0.3213



37.8522, 0.5100, 0.3901



37.8522, 0.4654, 0.4606

# Triad

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



37.8522, 0.5100, 0.3901



37.8522, 0.2083, 0.4103



37.8522, 0.2197, 0.1853

# Complementary

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



37.8522, 0.5100, 0.3901



42.4151, 0.2076, 0.2388

# 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.



37.8522, 0.1665, 0.1865



37.8522, 0.5100, 0.3901



37.8522, 0.1588, 0.2961

# Square

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



37.8522, 0.5100, 0.3901



37.8522, 0.2911, 0.5042



37.8522, 0.1464, 0.2201



37.8522, 0.3073, 0.2109



# Rectangle

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



37.8522, 0.5100, 0.3901



37.8522, 0.4141, 0.5005



37.8522, 0.1464, 0.2201



37.8522, 0.1981, 0.1825

# Sweetspot

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



37.8542, 0.5100, 0.3901



76.2032, 0.3533, 0.3499



28.0405, 0.3966, 0.2183



15.7577, 0.3594, 0.3526



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.



37.8542, 0.5100, 0.3901



32.6286, 0.5564, 0.3855



74.3594, 0.4291, 0.4710



18.2589, 0.3285, 0.3377



14.9935, 0.5799, 0.3777



1.5824, 0.5573, 0.3957

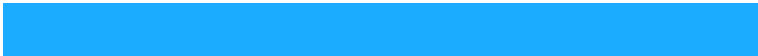


# Inverse Universe

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



42.4151, 0.2076, 0.2388



37.1394, 0.1957, 0.2178



15.9834, 0.1772, 0.1197



18.4845, 0.2980, 0.3202



17.1066, 0.1903, 0.2051



1.7859, 0.1949, 0.2215



# Previews

## White Background



This preview shows how the Yxy color 37.8522, 0.5100, 0.3901 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 37.8522, 0.5100, 0.3901 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 37.8522, 0.5100, 0.3901**

## Background



This preview shows how black text looks on a background with the Yxy color 37.8522, 0.5100, 0.3901.



This preview shows how white text looks on a background with the Yxy color 37.8522, 0.5100, 0.3901.

# 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

37.8522, 0.5100, 0.3901

### Protanopia

37.9708, 0.4089, 0.4478

### Deuteranopia

38.0246, 0.4500, 0.4419



## Tritanopia

37.9029, 0.4492, 0.3213

# Trichromacy



**Original Color**

37.8522, 0.5100, 0.3901

**Protanomaly**

37.1214, 0.4472, 0.4258

**Deuteranomaly**

37.5198, 0.4722, 0.4217

**Tritanomaly**

37.8755, 0.4748, 0.3493

# Monochromacy



**Original Color**

37.8522, 0.5100, 0.3901

**Achromatopsia**

35.6400, 0.3127, 0.3290

**Achromatomaly**

35.1089, 0.3833, 0.3629

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.8522, 0.5100, 0.3901 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, 133, 65)` looks like.

```
.text, #text, p{  
    color:rgb(252, 133, 65)  
}
```

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, 133, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 133, 65) }
```

## Border

The CSS property to change the border of an element to Yxy 37.8522, 0.5100, 0.3901 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, 133, 65) }
```

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

```
.border{ border-color:rgb(252, 133, 65) }
```

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

Here you see how a box with a 4 pixel `rgb(252, 133, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 133, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 133, 65);  
box-shadow:4px 4px 4px 4px rgb(252, 133,  
65) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.8522, 0.5100, 0.3901 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 133, 65) }
```

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

```
.background{ background-color: rgb(252,  
133, 65) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor