

# Converting Colors

$Y_{xy}(36.6724, 0.5016, 0.3657)$

Have a look what the booklet for  
Yxy(36.6724, 0.5016, 0.3657)  
contains.

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# **Color**

**Yxy(36.5991, 0.5022, 0.3657)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7D56
RGB	255, 125, 86
RGB Percent	100%, 49%, 34%
CMY	0.0000, 0.5098, 0.6627
CMYK	0.00, 0.51, 0.66, 0.00
HSL	14°, 100%, 67%
HSV	14°, 66%, 100%
XYZ	50.2600, 36.5991, 13.2205
YIQ	159.4240, 89.9990, 15.4310

# Conversions

## Conversions Part 2

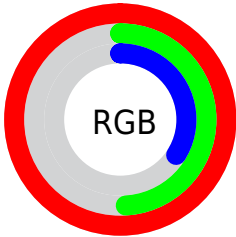
Format	Color
<a href="#">RYB</a>	<a href="#">255, 137, 86</a>
Decimal	<a href="#">16743766</a>
CIELab	<a href="#">66.98, 46.67, 44.02</a>
CIELCh	<a href="#">67, 64.161, 43.327</a>
Yxy	<a href="#">36.5991, 0.5022, 0.3657</a>
Android (android.graphics.Color)	<a href="#">4294933846</a> ( <a href="#">0xFFFF7D56</a> )
YUV	<a href="#">159.4240, -36.1980, 83.8202</a>
Hunter-Lab	<a href="#">60.4972, 42.4245, 29.3913</a>

# Details

The Yxy color **36.5991, 0.5022, 0.3657** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **58.3189, 0.2231, 0.2801**, and the grayscale version is **35.0103, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.7087, 0.4168, 0.3741**, and **15.9811, 0.5544, 0.3631** is the 20% darker color. If you saturate the color by 10%, you get **31.7708, 0.5425, 0.3655**, and if you desaturate by 10%, it is **42.5500, 0.4621, 0.3628**.

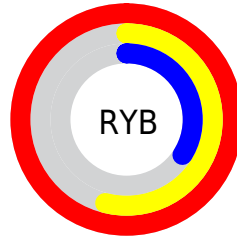
# Distribution



Red (100%)

Green (49%)

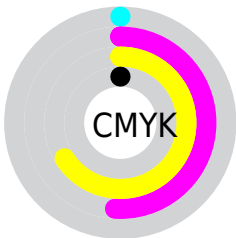
Blue (34%)



Red (100%)

Yellow (54%)

Blue (34%)

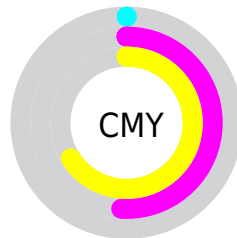


Cyan (0%)

Magenta (51%)

Yellow (66%)

Black (0%)



Cyan (0%)

Magenta (51%)


Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.5991, 0.5022, 0.3657 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 36.5991, 0.5022, 0.3657 by changing the saturation by 10% instead.





 36.5991, 0.5022,  
0.3657


 36.5991, 0.5022,  
0.3657


331.5716, 0.4052,  
0.3553


 24.8972, 0.5256,  
0.3651


 69.9558, 0.4672,  
0.3642


 16.0005, 0.5546,  
0.3625


 92.3794, 0.4539,  
0.3629

 9.5245, 0.5905,  
0.3556


 119.1457, 0.4426,  
0.3615

 5.0849, 0.6433,  
0.3449

 150.6391, 0.4330,  
0.3602

 2.2971, 0.6902,  
0.3098

 187.2440, 0.4246,  
0.3589

 0.7722, 0.7528,  
0.2472

229.3448, 0.4173,

 0.0000, 1.0000,

0.3576

0.0000

277.3258, 0.4109,  
0.3564

0.0000, 0.0000,  
0.0000

36.5991, 0.5022,  
0.3657

36.5991, 0.5022,  
0.3657

31.7708, 0.5425,  
0.3655

42.5500, 0.4621,  
0.3628

27.9979, 0.5789,  
0.3614

49.6980, 0.4252,  
0.3577


25.1933, 0.6066,  
0.3534

58.1025, 0.3929,  
0.3516

24.3698, 0.6148,  
0.3501

67.8209, 0.3653,  
0.3452

78.9070, 0.3422,  
0.3387

 91.4117, 0.3230,  
0.3326

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



36.5991, 0.4632, 0.3008



36.5991, 0.5022, 0.3657



36.5991, 0.4790, 0.4335

# Triad

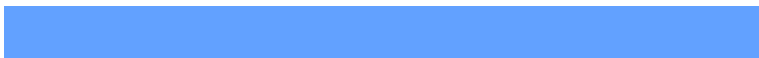
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



36.5991, 0.5022, 0.3657



36.5991, 0.2389, 0.4425



36.5991, 0.2025, 0.1887

# Complementary

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



36.5991, 0.5022, 0.3657



58.3189, 0.2231, 0.2801

# 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.



36.5991, 0.1625, 0.2003



36.5991, 0.5022, 0.3657



36.5991, 0.1784, 0.3336

# Square

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



36.5991, 0.5022, 0.3657



36.5991, 0.3247, 0.5066



36.5991, 0.1539, 0.2463



36.5991, 0.2755, 0.2046



# Rectangle

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



36.5991, 0.5022, 0.3657



36.5991, 0.4377, 0.4752



36.5991, 0.1539, 0.2463



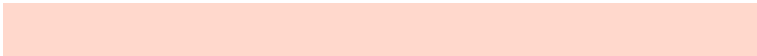
36.5991, 0.1855, 0.1892

# Sweetspot

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



36.5967, 0.5022, 0.3657



74.6109, 0.3504, 0.3411



32.9987, 0.3575, 0.2060



15.3041, 0.3569, 0.3429



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.



36.5967, 0.5022, 0.3657



30.2454, 0.5568, 0.3644



66.6151, 0.4348, 0.4438



18.6668, 0.3289, 0.3346



12.9190, 0.6121, 0.3522



1.4150, 0.5908, 0.3691



# Inverse Universe

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



58.3189, 0.2231, 0.2801



53.0068, 0.2123, 0.2683



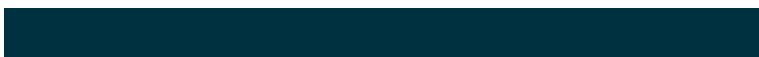
26.2180, 0.1965, 0.1695



19.7291, 0.2980, 0.3234



24.6812, 0.2035, 0.2526



2.5676, 0.2062, 0.2623



# Previews

## White Background



This preview shows how the Yxy color 36.5991, 0.5022, 0.3657 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

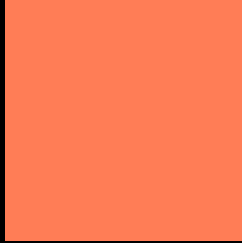
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.5991, 0.5022, 0.3657 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 36.5991, 0.5022, 0.3657**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.5991, 0.5022, 0.3657.



This preview shows how white text looks on a background with the Yxy color 36.5991, 0.5022, 0.3657.

# 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

36.5991, 0.5022, 0.3657

### Protanopia

36.5795, 0.3850, 0.4172

### Deuteranopia

36.7736, 0.4306, 0.4231



## Tritanopia

36.5197, 0.4580, 0.3214

# Trichromacy



**Original Color**

36.5991, 0.5022, 0.3657

**Protanomaly**

35.4429, 0.4282, 0.3966

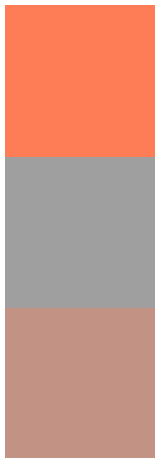
**Deuteranomaly**

36.2321, 0.4583, 0.4004

**Tritanomaly**

36.3713, 0.4761, 0.3383

# Monochromacy



**Original Color**

36.5991, 0.5022, 0.3657

**Achromatopsia**

34.6704, 0.3127, 0.3290

**Achromatomaly**

34.0027, 0.3787, 0.3495

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.5991, 0.5022, 0.3657 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, 125, 86)` looks like.

```
.text, #text, p{  
    color:rgb(255, 125, 86)  
}
```

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, 125, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 125, 86) }
```

## Border

The CSS property to change the border of an element to Yxy 36.5991, 0.5022, 0.3657 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, 125, 86) }
```

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

```
.border{ border-color:rgb(255, 125, 86) }
```

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

Here you see how a box with a 4 pixel rgb(255, 125, 86) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 125, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 125, 86);  
box-shadow:4px 4px 4px 4px rgb(255, 125,  
86) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.5991, 0.5022, 0.3657 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 125, 86) }
```

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

```
.background{ background-color: rgb(255,  
125, 86) }
```

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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