

# Converting Colors

$Y_{xy}(36.1744, 0.5295, 0.3895)$

Have a look what the booklet for  
Yxy(36.1744, 0.5295, 0.3895)  
contains.

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# **Color**

**Yxy(36.1662, 0.5295, 0.3895)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7D33
RGB	255, 125, 51
RGB Percent	100%, 49%, 20%
CMY	0.0001, 0.5097, 0.8000
CMYK	0.00, 0.51, 0.80, 0.00
HSL	22°, 100%, 60%
HSV	22°, 80%, 100%
XYZ	49.1656, 36.1662, 7.5211
YIQ	155.4340, 101.2340, 4.5460

# Conversions

## Conversions Part 2

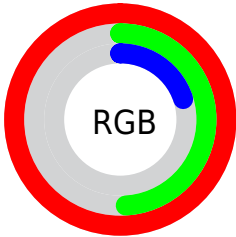
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 167, 51
Decimal	16743731
CIE <sub>Lab</sub>	66.65, 45.13, 60.43
CIE <sub>LCh</sub>	67, 75.427, 53.246
Yxy	36.1662, 0.5295, 0.3895
Android (android.graphics.Color)	4294933811 (0xFFFF7D33)
YUV	155.4340, -51.4860, 87.3194
Hunter-Lab	60.1383, 40.6891, 34.6819

# Details

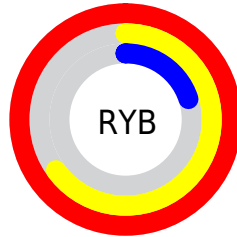
The Yxy color **36.1662, 0.5295, 0.3895** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **40.9520, 0.2024, 0.2307**, and the grayscale version is **33.1830, 0.3127, 0.3290**.

A 20% lighter version of the original color is **54.8818, 0.4440, 0.4061**, and **15.7111, 0.5765, 0.3805** is the 20% darker color. If you saturate the color by 10%, you get **32.2185, 0.5593, 0.3846**, and if you desaturate by 10%, it is **40.9137, 0.4958, 0.3892**.

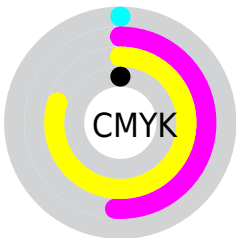
# Distribution



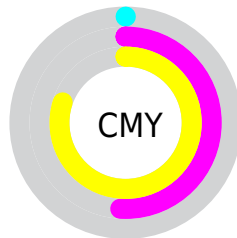
- Red (100%)
- Green (49%)
- Blue (20%)



- Red (100%)
- Yellow (65%)
- Blue (20%)



- Cyan (0%)
- Magenta (51%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (51%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.1662, 0.5295, 0.3895 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 36.1662, 0.5295, 0.3895 by changing the saturation by 10% instead.





 36.1662, 0.5295,  
0.3895


 36.1662, 0.5295,  
0.3895


329.6864, 0.4223,  
0.3724


 24.5626, 0.5530,  
0.3884


 69.2885, 0.4925,  
0.3872


 15.7515, 0.5803,  
0.3840


 91.5760, 0.4779,  
0.3851

 9.3485, 0.6161,  
0.3762


 118.1936, 0.4653,  
0.3829

 4.9692, 0.6475,  
0.3525

 149.5256, 0.4544,  
0.3806

 2.2292, 0.6865,  
0.3135

 185.9565, 0.4448,  
0.3784

 0.7358, 0.7504,  
0.2496

 227.8707, 0.4364,

 0.0000, 1.0000,

0.3763

0.0000

275.6525, 0.4290,  
0.3743

■ 0.0000, 0.0000,  
0.0000

■ 36.1662, 0.5295,  
0.3895

■ 36.1662, 0.5295,  
0.3895

■ 32.2185, 0.5593,  
0.3846

■ 40.9137, 0.4958,  
0.3892

■ 29.0032, 0.5833,  
0.3751

■ 46.5031, 0.4614,  
0.3847

■ 29.0027, 0.5833,  
0.3751

■ 52.9798, 0.4285,  
0.3772

■ 60.3836, 0.3985,  
0.3679

■ 68.7518, 0.3720,  
0.3579

78.1193, 0.3490,  
0.3479

88.5192, 0.3294,  
0.3381

99.9831, 0.3127,  
0.3290

99.9960, 0.3127,  
0.3290

# Harmonies

## Analogous

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



36.1662, 0.5128, 0.3165



36.1662, 0.5295, 0.3895



36.1662, 0.4783, 0.4674

# Triad

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



36.1662, 0.5295, 0.3895



36.1662, 0.1979, 0.4226



36.1662, 0.2090, 0.1729

# Complementary

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



36.1662, 0.5295, 0.3895



40.9520, 0.2024, 0.2307

# 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.



36.1662, 0.1533, 0.1740



36.1662, 0.5295, 0.3895



36.1662, 0.1452, 0.2924

# Square

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



36.1662, 0.5295, 0.3895



36.1662, 0.2877, 0.5287



36.1662, 0.1325, 0.2093



36.1662, 0.3038, 0.1997



# Rectangle

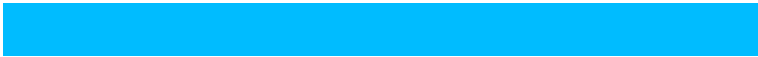
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



36.1662, 0.5295, 0.3895



36.1662, 0.4214, 0.5147



36.1662, 0.1325, 0.2093



36.1662, 0.1862, 0.1700

# Sweetspot

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



36.1682, 0.5295, 0.3895



74.2626, 0.3578, 0.3519



27.0670, 0.4058, 0.2152



15.1869, 0.3661, 0.3555



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.



36.1682, 0.5295, 0.3895



30.2131, 0.5743, 0.3791



75.0120, 0.4352, 0.4760



19.0661, 0.3285, 0.3377



15.4150, 0.5803, 0.3774



1.6998, 0.5587, 0.3945

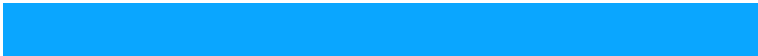


# Inverse Universe

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



40.9520, 0.2024, 0.2307



34.6174, 0.1917, 0.2084



13.8963, 0.1692, 0.1050



19.3077, 0.2980, 0.3202



17.6538, 0.1904, 0.2053



1.9267, 0.1947, 0.2209



# Previews

## White Background



This preview shows how the Yxy color 36.1662, 0.5295, 0.3895 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 36.1662, 0.5295, 0.3895 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 36.1662, 0.5295, 0.3895**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.1662, 0.5295, 0.3895.



This preview shows how white text looks on a background with the Yxy color 36.1662, 0.5295, 0.3895.

# 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

36.1662, 0.5295, 0.3895

### Protanopia

36.3551, 0.4174, 0.4599

### Deuteranopia

36.1087, 0.4602, 0.4508



## Tritanopia

36.2252, 0.4609, 0.3224

# Trichromacy



**Original Color**

36.1662, 0.5295, 0.3895

**Protanomaly**

35.2002, 0.4607, 0.4325

**Deuteranomaly**

35.5224, 0.4881, 0.4257

**Tritanomaly**

36.0799, 0.4915, 0.3515

# Monochromacy



**Original Color**

36.1662, 0.5295, 0.3895

**Achromatopsia**

32.7778, 0.3127, 0.3290

**Achromatomaly**

32.3072, 0.3930, 0.3662

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.1662, 0.5295, 0.3895 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 125, 51)  
}
```

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, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 125, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 36.1662, 0.5295, 0.3895 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, 51) }
```

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

```
.border{ border-color:rgb(255, 125, 51) }
```

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, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 125, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 125, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 125,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.1662, 0.5295, 0.3895 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, 51) }
```

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

```
.background{ background-color: rgb(255,  
125, 51) }
```

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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