

# Converting Colors

$Y_{xy}(31.0242, 0.5191, 0.3385)$

Have a look what the booklet for  
Yxy(31.0242, 0.5191, 0.3385)  
contains.

<b>Yxy(31.1125, 0.5183, 0.3385)</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(31.1125, 0.5183, 0.3385)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF645A
RGB	255, 100, 90
RGB Percent	100%, 39%, 35%
CMY	0.0001, 0.6077, 0.6472
CMYK	0.00, 0.61, 0.65, 0.00
HSL	4°, 100%, 68%
HSV	4°, 65%, 100%
XYZ	47.6384, 31.1125, 13.1619
YIQ	145.2050, 95.5900, 29.7500

# Conversions

## Conversions Part 2

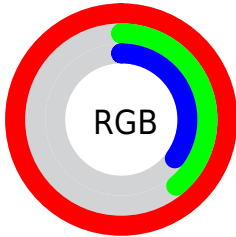
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 101, 90
Decimal	16737370
CIE Lab	62.60, 58.37, 36.63
CIE LCh	63, 68.909, 32.113
Yxy	31.1125, 0.5183, 0.3385
Android (android.graphics.Color)	4294927450 (0xFFFF645A)
YUV	145.2050, -27.2161, 96.2902
Hunter-Lab	55.7786, 54.8378, 25.0545

# Details

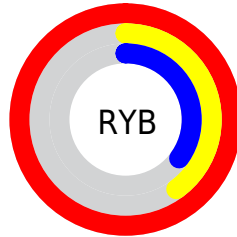
The Yxy color **31.1125, 0.5183, 0.3385** is a dark color, and the websafe version is hex **FF6666**. The color can be described as middle muted orange. A complement of this color would be **74.6600, 0.2329, 0.3168**, and the grayscale version is **28.4894, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.9304, 0.4267, 0.3461**, and **12.9742, 0.5799, 0.3273** is the 20% darker color. If you saturate the color by 10%, you get **26.8128, 0.5644, 0.3381**, and if you desaturate by 10%, it is **36.9141, 0.4720, 0.3379**.

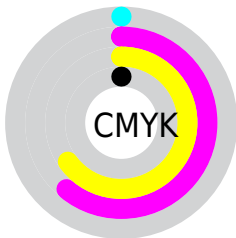
# Distribution



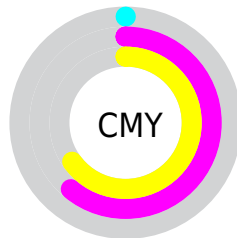
- Red (100%)
- Green (39%)
- Blue (35%)



- Red (100%)
- Yellow (40%)
- Blue (35%)



- Cyan (0%)
- Magenta (61%)
- Yellow (65%)
- Black (0%)




- Cyan (0%)
- Magenta (61%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.1125, 0.5183, 0.3385 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 31.1125, 0.5183, 0.3385 by changing the saturation by 10% instead.





 31.1125, 0.5183,  
0.3385


 31.1125, 0.5183,  
0.3385


307.0563, 0.4097,  
0.3419


 20.6845, 0.5457,  
0.3345


 61.4171, 0.4782,  
0.3420


 12.8936, 0.5804,  
0.3273


 82.0626, 0.4633,  
0.3426

 7.3553, 0.6246,  
0.3144


 106.8827, 0.4507,  
0.3428

 3.6853, 0.6917,  
0.2953

 136.2618, 0.4400,  
0.3428

 1.4991, 0.7525,  
0.2475

 170.5843, 0.4308,  
0.3427

 0.2881, 0.8753,  
0.1247

210.2346, 0.4228,


 0.0000, 1.0000,


0.3425

0.0000


255.5972, 0.4158,  
0.3422


 0.0000, 0.0000,  
0.0000


 31.1125, 0.5183,  
0.3385


 31.1125, 0.5183,  
0.3385


 26.8128, 0.5644,  
0.3381


 36.9141, 0.4720,  
0.3379


 23.8716, 0.6035,  
0.3363


 44.3334, 0.4299,  
0.3366


 22.1272, 0.6292,  
0.3336

 53.4807, 0.3938,  
0.3349

 21.6142, 0.6370,  
0.3324

 64.4555, 0.3641,  
0.3331

 77.3494, 0.3400,  
0.3314

 92.2481, 0.3205,  
0.3297

99.9975, 0.3127,  
0.3290

# Harmonies

## Analogous

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



31.1125, 0.4494, 0.2714



31.1125, 0.5183, 0.3385



31.1125, 0.5137, 0.4115

# Triad

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



31.1125, 0.5183, 0.3385



31.1125, 0.2614, 0.4984



31.1125, 0.1703, 0.1752

# Complementary

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



31.1125, 0.5183, 0.3385



74.6600, 0.2329, 0.3168

# 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.



31.1125, 0.1403, 0.1992



31.1125, 0.5183, 0.3385



31.1125, 0.1827, 0.3799

# Square

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



31.1125, 0.5183, 0.3385



31.1125, 0.3596, 0.5333



31.1125, 0.1429, 0.2652



31.1125, 0.2359, 0.1824



# Rectangle

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



31.1125, 0.5183, 0.3385



31.1125, 0.4767, 0.4618



31.1125, 0.1429, 0.2652



31.1125, 0.1566, 0.1794

# Sweetspot

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



31.1143, 0.5183, 0.3385



71.5897, 0.3497, 0.3321



35.2651, 0.3274, 0.1873



14.5424, 0.3567, 0.3326



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.



31.1143, 0.5183, 0.3385



25.7063, 0.5784, 0.3376



54.9343, 0.4524, 0.4174



18.1644, 0.3293, 0.3305



11.3632, 0.6358, 0.3333



1.1659, 0.6261, 0.3411



# Inverse Universe

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



74.6600, 0.2329, 0.3168



72.0986, 0.2252, 0.3140



36.0254, 0.2077, 0.2103



20.2807, 0.2980, 0.3275



36.2559, 0.2194, 0.3099



3.5853, 0.2201, 0.3122



# Previews

## White Background



This preview shows how the Yxy color 31.1125, 0.5183, 0.3385 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 31.1125, 0.5183, 0.3385 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 31.1125, 0.5183, 0.3385**

## Background



This preview shows how black text looks on a background with the Yxy color 31.1125, 0.5183, 0.3385.



This preview shows how white text looks on a background with the Yxy color 31.1125, 0.5183, 0.3385.

# 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

31.1125, 0.5183, 0.3385

### Protanopia

31.3688, 0.3653, 0.3932

### Deuteranopia

31.2991, 0.4223, 0.4143



## Tritanopia

31.2036, 0.5011, 0.3240

# Trichromacy



## Original Color

31.1125, 0.5183, 0.3385

## Protanomaly

29.4901, 0.4208, 0.3693

## Deuteranomaly

30.2053, 0.4598, 0.3820

## Tritanomaly

31.1038, 0.5072, 0.3287

# Monochromacy



## Original Color

31.1125, 0.5183, 0.3385

## Achromatopsia

28.3149, 0.3127, 0.3290

## Achromatomaly

27.4955, 0.3844, 0.3349

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.1125, 0.5183, 0.3385 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, 100, 90)` looks like.

```
.text, #text, p{  
    color:rgb(255, 100, 90)  
}
```

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, 100, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 100, 90) }
```

## Border

The CSS property to change the border of an element to Yxy 31.1125, 0.5183, 0.3385 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, 100, 90) }
```

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

```
.border{ border-color:rgb(255, 100, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 100, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 100, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 100, 90);  
box-shadow:4px 4px 4px 4px rgb(255, 100,  
90) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.1125, 0.5183, 0.3385 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 100, 90) }
```

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

```
.background{ background-color: rgb(255,  
100, 90) }
```

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