

Converting Colors

$Y_{xy}(32.0644, 0.5658, 0.3890)$

Have a look what the booklet for
Yxy(32.0644, 0.5658, 0.3890)
contains.

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Color

Yxy(31.9851, 0.5662, 0.3886)

Conversions

Conversions Part 1

Format	Color
Hex	FF6C00
RGB	255, 108, 0
RGB Percent	100%, 42%, 0%
CMY	0.0000, 0.5764, 0.9996
CMYK	0.00, 0.58, 1.00, 0.00
HSL	25°, 100%, 50%
HSV	25°, 100%, 100%
XYZ	46.6031, 31.9851, 3.7203
YIQ	139.6410, 122.2800, -2.4240

Conversions

Conversions Part 2

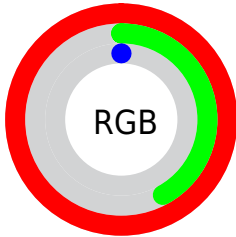
Format	Color
R_{YB}	255, 187, 0
Decimal	16739328
CIE _{Lab}	63.33, 52.33, 71.88
CIE _{LCh}	63, 88.909, 53.944
Yxy	31.9851, 0.5662, 0.3886
Android (android.graphics.Color)	4294929408 (0xFFFF6C00)
YUV	139.6410, -68.8430, 101.1698
Hunter-Lab	56.5554, 48.1167, 35.6885

Details

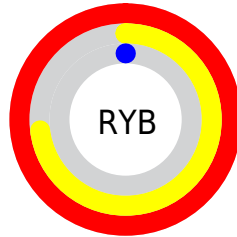
The Yxy color **31.9851, 0.5662, 0.3886** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **28.1187, 0.1837, 0.1812**, and the grayscale version is **26.3217, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.8841, 0.4808, 0.4155**, and **13.4934, 0.6015, 0.3606** is the 20% darker color. If you saturate the color by 10%, you get **31.9737, 0.5663, 0.3886**, and if you desaturate by 10%, it is **35.4276, 0.5438, 0.3975**.

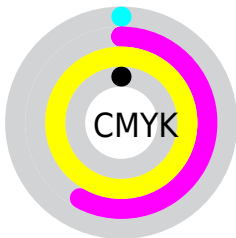
Distribution



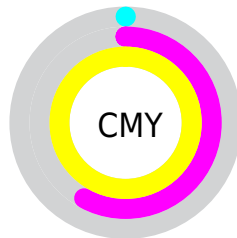
- Red (100%)
- Green (42%)
- Blue (0%)



- Red (100%)
- Yellow (73%)
- Blue (0%)



- Cyan (0%)
- Magenta (58%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (58%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.9851, 0.5662, 0.3886 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 31.9851, 0.5662, 0.3886 by changing the saturation by 10% instead.


 31.9851, 0.5662,
0.3886

 31.9851, 0.5662,
0.3886


311.0514, 0.4438,
0.3793


 21.3501, 0.5906,
0.3829

 62.7877, 0.5255,
0.3912


 13.3802, 0.6208,
0.3737


 83.7242, 0.5089,
0.3904

 7.6909, 0.6478,
0.3522


 108.8632, 0.4944,
0.3890

 3.8978, 0.6805,
0.3195

 138.5893, 0.4817,
0.3872

 1.6165, 0.7288,
0.2712

 173.2867, 0.4704,
0.3852


 0.3687, 0.8373,
0.1627

 213.3399, 0.4605,


 0.0000, 1.0000,


0.3832


0.0000


 259.1334, 0.4517,
0.3812


 0.0000, 0.0000,
0.0000


 31.9851, 0.5662,
0.3886


 31.9851, 0.5662,
0.3886


 31.9737, 0.5663,
0.3886

 35.4276, 0.5438,
0.3975

 39.5104, 0.5165,
0.4013

 44.2869, 0.4859,
0.3998

 49.7962, 0.4543,
0.3939

 56.0736, 0.4238,
0.3849

63.1514, 0.3957,
0.3741

71.0599, 0.3705,
0.3625

79.8274, 0.3484,
0.3509

89.4808, 0.3292,
0.3396

Harmonies

Analogous

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



31.9851, 0.5568, 0.3090



31.9851, 0.5662, 0.3886



31.9851, 0.4958, 0.4810

Triad

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



31.9851, 0.5662, 0.3886



31.9851, 0.1709, 0.4411



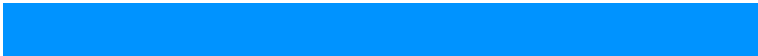
31.9851, 0.1918, 0.1494

Complementary

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



31.9851, 0.5662, 0.3886



28.1187, 0.1837, 0.1812

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.



31.9851, 0.1299, 0.1485



31.9851, 0.5662, 0.3886



31.9851, 0.1164, 0.2763

Square

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



31.9851, 0.5662, 0.3886



31.9851, 0.2715, 0.5799



31.9851, 0.1061, 0.1837



31.9851, 0.3029, 0.1798

Rectangle

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



31.9851, 0.5662, 0.3886



31.9851, 0.4260, 0.5442



31.9851, 0.1061, 0.1837



31.9851, 0.1662, 0.1457

Sweetspot

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



31.9869, 0.5662, 0.3886



71.0254, 0.3706, 0.3626



23.4256, 0.4642, 0.2331



14.4669, 0.3808, 0.3675



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.



31.9869, 0.5662, 0.3886



31.9739, 0.5663, 0.3886



79.9683, 0.4350, 0.4928



19.2510, 0.3284, 0.3391



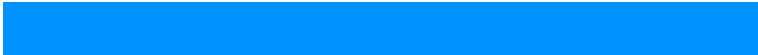
16.9877, 0.5634, 0.3908



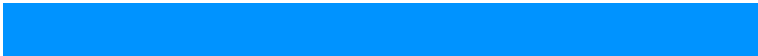
1.8649, 0.5432, 0.4069

Inverse Universe

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



28.1187, 0.1837, 0.1812



28.1041, 0.1837, 0.1812



7.7699, 0.1512, 0.0641



19.1176, 0.2979, 0.3187



14.9872, 0.1844, 0.1838



1.6758, 0.1894, 0.2018

Previews

White Background



This preview shows how the Yxy color 31.9851, 0.5662, 0.3886 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 31.9851, 0.5662, 0.3886 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 31.9851, 0.5662, 0.3886

Background



This preview shows how black text looks on a background with the Yxy color 31.9851, 0.5662, 0.3886.



This preview shows how white text looks on a background with the Yxy color 31.9851, 0.5662, 0.3886.

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

31.9851, 0.5662, 0.3886

Protanopia

32.0614, 0.4351, 0.4818

Deuteranopia

32.0271, 0.4713, 0.4640



Tritanopia

32.0646, 0.4935, 0.3239

Trichromacy



Original Color

31.9851, 0.5662, 0.3886

Protanomaly

30.6223, 0.4887, 0.4446

Deuteranomaly

31.1015, 0.5097, 0.4335

Tritanomaly

31.7928, 0.5356, 0.3595

Monochromacy



Original Color

31.9851, 0.5662, 0.3886

Achromatopsia

26.2251, 0.3127, 0.3290

Achromatomaly

26.1047, 0.4244, 0.3845

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.9851, 0.5662, 0.3886 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, 108, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 108, 0)  
}
```

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, 108, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 108, 0) }
```

Border

The CSS property to change the border of an element to Yxy 31.9851, 0.5662, 0.3886 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, 108, 0) }
```

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

```
.border{ border-color:rgb(255, 108, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 108, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 108, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 108, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 108,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 31.9851, 0.5662, 0.3886 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 108, 0) }
```

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

```
.background{ background-color: rgb(255,  
108, 0) }
```

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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