

Converting Colors

$Y_{xy}(31.6070, 0.5683, 0.3870)$

Have a look what the booklet for
Yxy(31.6070, 0.5683, 0.3870)
contains.

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Color

Yxy(31.5681, 0.5685, 0.3868)

Conversions

Conversions Part 1

Format	Color
Hex	FF6A00
RGB	255, 106, 0
RGB Percent	100%, 42%, 0%
CMY	0.0000, 0.5843, 0.9999
CMYK	0.00, 0.58, 1.00, 0.00
HSL	25°, 100%, 50%
HSV	25°, 100%, 100%
XYZ	46.3973, 31.5681, 3.6481
YIQ	138.4670, 122.8300, -1.3780

Conversions

Conversions Part 2

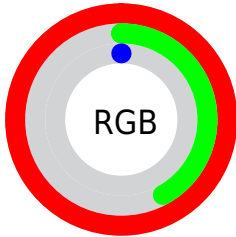
Format	Color
RYB	255, 181, 0
Decimal	16738816
CIELab	62.98, 53.24, 71.70
CIELCh	63, 89.308, 53.406
Yxy	31.5681, 0.5685, 0.3868
Android (android.graphics.Color)	4294928896 (0xFFFF6A00)
YUV	138.4670, -68.2642, 102.1994
Hunter-Lab	56.1855, 49.0784, 35.4801

Details

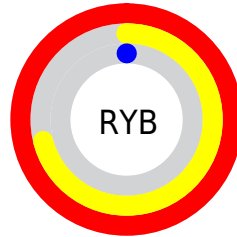
The Yxy color **31.5681, 0.5685, 0.3868** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **28.7206, 0.1844, 0.1839**, and the grayscale version is **25.8350, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.1794, 0.4827, 0.4136**, and **13.3148, 0.6039, 0.3587** is the 20% darker color. If you saturate the color by 10%, you get **31.5658, 0.5685, 0.3868**, and if you desaturate by 10%, it is **34.9829, 0.5458, 0.3958**.

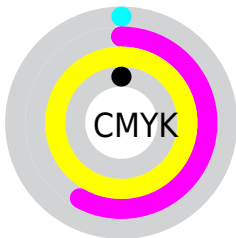
Distribution



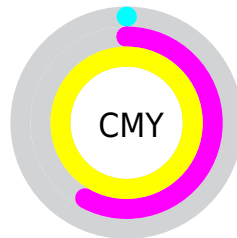
- Red (100%)
- Green (42%)
- Blue (0%)



- Red (100%)
- Yellow (71%)
- 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 31.5681, 0.5685, 0.3868 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 31.5681, 0.5685, 0.3868 by changing the saturation by 10% instead.


 31.5681, 0.5685,
0.3868


 31.5681, 0.5685,
0.3868


309.1471, 0.4447,
0.3786


 21.0318, 0.5932,
0.3808


 62.1334, 0.5273,
0.3899

 13.1473, 0.6241,
0.3712


 82.9312, 0.5105,
0.3892


 7.5300, 0.6511,
0.3489


 107.9183, 0.4958,
0.3879

 3.7957, 0.6846,
0.3154

 137.4791, 0.4830,
0.3862

 1.5600, 0.7338,
0.2662

 171.9980, 0.4716,
0.3844

 0.3304, 0.8501,
0.1499

 211.8593, 0.4616,


 0.0000, 1.0000,


0.3824


0.0000

 257.4476, 0.4527,
0.3805


 0.0000, 0.0000,
0.0000


 31.5681, 0.5685,
0.3868


 31.5681, 0.5685,
0.3868

 31.5658, 0.5685,
0.3868

 34.9829, 0.5458,
0.3958

 39.0515, 0.5182,
0.3998

 43.8265, 0.4872,
0.3985

 49.3480, 0.4553,
0.3928

 55.6523, 0.4245,
0.3840

62.7726, 0.3961,
0.3734

70.7398, 0.3707,
0.3620

79.5831, 0.3485,
0.3505

89.3302, 0.3293,
0.3395

Harmonies

Analogous

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



31.5681, 0.5576, 0.3072



31.5681, 0.5685, 0.3868



31.5681, 0.4983, 0.4796

Triad

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



31.5681, 0.5685, 0.3868



31.5681, 0.1711, 0.4454



31.5681, 0.1894, 0.1480

Complementary

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



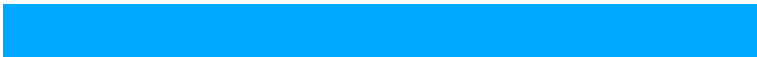
31.5681, 0.5685, 0.3868



28.7206, 0.1844, 0.1839

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.



31.5681, 0.1281, 0.1477



31.5681, 0.5685, 0.3868



31.5681, 0.1157, 0.2780

Square

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



31.5681, 0.5685, 0.3868



31.5681, 0.2728, 0.5836



31.5681, 0.1048, 0.1837



31.5681, 0.3002, 0.1780

Rectangle

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



31.5681, 0.5685, 0.3868



31.5681, 0.4281, 0.5438



31.5681, 0.1048, 0.1837



31.5681, 0.1640, 0.1445

Sweetspot

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



31.5679, 0.5685, 0.3868



70.7343, 0.3708, 0.3620



23.5605, 0.4573, 0.2293



14.3986, 0.3811, 0.3668



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.



31.5679, 0.5685, 0.3868



31.5658, 0.5685, 0.3868



77.5767, 0.4384, 0.4901



19.2274, 0.3284, 0.3389



16.7720, 0.5656, 0.3891



1.8426, 0.5452, 0.4053

Inverse Universe

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



28.7206, 0.1844, 0.1839



28.7183, 0.1844, 0.1839



7.9376, 0.1515, 0.0653



19.1417, 0.2979, 0.3189



15.3076, 0.1851, 0.1865



1.7062, 0.1901, 0.2043

Previews

White Background



This preview shows how the Yxy color 31.5681, 0.5685, 0.3868 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 31.5681, 0.5685, 0.3868 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 31.5681, 0.5685, 0.3868

Background



This preview shows how black text looks on a background with the Yxy color 31.5681, 0.5685, 0.3868.



This preview shows how white text looks on a background with the Yxy color 31.5681, 0.5685, 0.3868.

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

31.5681, 0.5685, 0.3868

Protanopia

31.6233, 0.4349, 0.4812

Deuteranopia

31.5883, 0.4716, 0.4638



Tritanopia

31.6289, 0.4972, 0.3240

Trichromacy



Original Color

31.5681, 0.5685, 0.3868

Protanomaly

30.2023, 0.4889, 0.4440

Deuteranomaly

30.8315, 0.5110, 0.4324

Tritanomaly

31.3779, 0.5383, 0.3584

Monochromacy



Original Color

31.5681, 0.5685, 0.3868

Achromatopsia

25.4152, 0.3127, 0.3290

Achromatomaly

25.4500, 0.4260, 0.3834

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.5681, 0.5685, 0.3868 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, 106, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 106, 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, 106, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 106, 0) }
```

Border

The CSS property to change the border of an element to Yxy 31.5681, 0.5685, 0.3868 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, 106, 0) }
```

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

```
.border{ border-color:rgb(255, 106, 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, 106, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 106, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 106, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 106,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 31.5681, 0.5685, 0.3868 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 106, 0) }
```

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

```
.background{ background-color: rgb(255,  
106, 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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