

# Converting Colors

$Y_{xy}(30.7826, 0.5548, 0.3879)$

Have a look what the booklet for  
Yxy(30.7826, 0.5548, 0.3879)  
contains.

<b>Yxy(30.7816, 0.5547, 0.3880)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(30.7816, 0.5547, 0.3880)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F76D19
RGB	247, 109, 25
RGB Percent	97%, 43%, 10%
CMY	0.0313, 0.5726, 0.9017
CMYK	0.00, 0.56, 0.90, 0.03
HSL	23°, 93%, 53%
HSV	23°, 90%, 97%
XYZ	44.0066, 30.7816, 4.5458
YIQ	140.6860, 109.2120, 3.1320

# Conversions

## Conversions Part 2

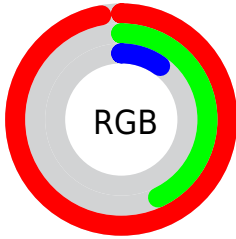
Format	Color
R <sub>Y</sub> B	247, 160, 25
Decimal	16215321
CIE <sub>Lab</sub>	62.32, 49.21, 65.66
CIE <sub>LCh</sub>	62, 82.052, 53.148
Y <sub>xy</sub>	30.7816, 0.5547, 0.3880
Android (android.graphics.Color)	4294405401 (0xFFFF76D19)
Y <sub>UV</sub>	140.6860, -57.0332, 93.2374
Hunter-Lab	55.4812, 44.4907, 33.9789

# Details

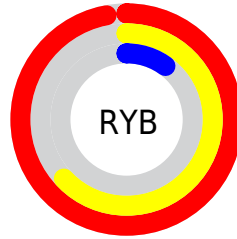
The Yxy color **30.7816, 0.5547, 0.3880** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **33.1527, 0.1939, 0.2122**, and the grayscale version is **26.7054, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.4050, 0.4723, 0.4082**, and **12.7997, 0.5959, 0.3650** is the 20% darker color. If you saturate the color by 10%, you get **27.7178, 0.5785, 0.3787**, and if you desaturate by 10%, it is **34.5098, 0.5253, 0.3925**.

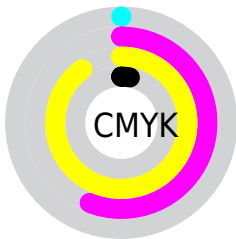
# Distribution



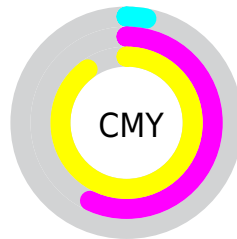
- Red (97%)
- Green (43%)
- Blue (10%)



- Red (97%)
- Yellow (63%)
- Blue (10%)



- Cyan (0%)
- Magenta (56%)
- Yellow (90%)
- Black (3%)




- Cyan (3%)
- Magenta (57%)
- Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.7816, 0.5547, 0.3880 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 30.7816, 0.5547, 0.3880 by changing the saturation by 10% instead.





 30.7816, 0.5547,  
0.3880


 30.7816, 0.5547,  
0.3880


305.5309, 0.4348,  
0.3757


 20.4326, 0.5799,  
0.3838


 60.8961, 0.5138,  
0.3888

 12.7099, 0.6097,  
0.3752


 81.4303, 0.4975,  
0.3875


 7.2291, 0.6423,  
0.3577

 106.1284, 0.4833,  
0.3857

 3.6058, 0.6751,  
0.3249

 135.3748, 0.4710,  
0.3837

 1.4556, 0.7242,  
0.2758

 169.5538, 0.4602,  
0.3817

 0.2572, 0.8617,  
0.1383

 209.0499, 0.4507,

 0.0000, 1.0000,

0.3796

0.0000

254.2475, 0.4423,  
0.3776

0.0000, 0.0000,  
0.0000

30.7816, 0.5547,  
0.3880

30.7816, 0.5547,  
0.3880

27.7178, 0.5785,  
0.3787

34.5098, 0.5253,  
0.3925

27.6759, 0.5788,  
0.3786


38.9513, 0.4924,  
0.3918


44.1500, 0.4588,  
0.3869


50.1438, 0.4266,  
0.3789

56.9677, 0.3972,  
0.3693

 64.6544, 0.3711,  
0.3589

 73.2344, 0.3485,  
0.3484

 82.7369, 0.3291,  
0.3384

 93.1894, 0.3125,  
0.3289

# Harmonies

## Analogous

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



30.7816, 0.5405, 0.3105



30.7816, 0.5547, 0.3880



30.7816, 0.4923, 0.4754

# Triad

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



30.7816, 0.5547, 0.3880



30.7816, 0.1817, 0.4379



30.7816, 0.1961, 0.1569

# Complementary

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



30.7816, 0.5547, 0.3880



33.1527, 0.1939, 0.2122

# 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.



30.7816, 0.1369, 0.1573



30.7816, 0.5547, 0.3880



30.7816, 0.1266, 0.2845

# Square

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



30.7816, 0.5547, 0.3880



30.7816, 0.2797, 0.5630



30.7816, 0.1147, 0.1935



30.7816, 0.3008, 0.1857



# Rectangle

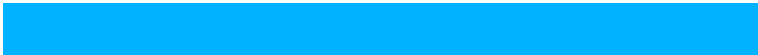
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



30.7816, 0.5547, 0.3880



30.7816, 0.4273, 0.5332



30.7816, 0.1147, 0.1935



30.7816, 0.1716, 0.1537

# Sweetspot

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



30.7833, 0.5547, 0.3880



71.9901, 0.3644, 0.3560



23.2152, 0.4268, 0.2175



14.7615, 0.3726, 0.3595



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.



30.7833, 0.5547, 0.3880



29.7024, 0.5791, 0.3784



69.6914, 0.4401, 0.4834



17.5093, 0.3284, 0.3380



14.8866, 0.5758, 0.3810



1.4997, 0.5524, 0.3996

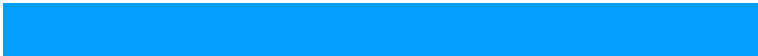


# Inverse Universe

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



33.1527, 0.1939, 0.2122



31.8725, 0.1882, 0.1975



9.6249, 0.1584, 0.0822



17.6436, 0.2980, 0.3198



15.9881, 0.1889, 0.2001



1.6028, 0.1939, 0.2180



# Previews

## White Background



This preview shows how the Yxy color 30.7816, 0.5547, 0.3880 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 30.7816, 0.5547, 0.3880 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 30.7816, 0.5547, 0.3880**

## Background



This preview shows how black text looks on a background with the Yxy color 30.7816, 0.5547, 0.3880.



This preview shows how white text looks on a background with the Yxy color 30.7816, 0.5547, 0.3880.

# 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

30.7816, 0.5547, 0.3880

### Protanopia

30.8066, 0.4308, 0.4746

### Deuteranopia

30.7213, 0.4722, 0.4633



## Tritanopia

30.9094, 0.4910, 0.3237

# Trichromacy



## Original Color

30.7816, 0.5547, 0.3880

## Protanomaly

29.7184, 0.4795, 0.4405

## Deuteranomaly

30.1012, 0.5051, 0.4340

## Tritanomaly

30.7929, 0.5227, 0.3538

# Monochromacy



## Original Color

30.7816, 0.5547, 0.3880

## Achromatopsia

26.6356, 0.3127, 0.3290

## Achromatomaly

26.3047, 0.4098, 0.3727

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.7816, 0.5547, 0.3880 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(247, 109, 25)` looks like.

```
.text, #text, p{  
    color:rgb(247, 109, 25)  
}
```

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(247, 109, 25) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 109, 25) }
```

## Border

The CSS property to change the border of an element to Yxy 30.7816, 0.5547, 0.3880 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(247, 109, 25) }
```

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

```
.border{ border-color:rgb(247, 109, 25) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 109, 25)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 109, 25); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 109, 25);  
box-shadow:4px 4px 4px 4px rgb(247, 109,  
25) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.7816, 0.5547, 0.3880 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 109, 25) }
```

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

```
.background{ background-color: rgb(247,  
109, 25) }
```

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