

Converting Colors

$Y_{xy}(37.4805, 0.5375, 0.4077)$

Have a look what the booklet for
Yxy(37.4805, 0.5375, 0.4077)
contains.

| | |
|--|----|
| Yxy(37.5243, 0.5373, 0.4078) | 3 |
| <i>Conversions</i> | 4 |
| <i>Details</i> | 6 |
| <i>Harmonies</i> | 12 |
| <i>Previews</i> | 24 |
| <i>Color Blindness Simulation</i> | 27 |
| <i>CSS Examples</i> | 30 |

Color

Yxy(37.5243, 0.5373, 0.4078)

Conversions

Conversions Part 1

| Format | Color |
|-------------|------------------------------|
| Hex | FF830E |
| RGB | 255, 131, 14 |
| RGB Percent | 100%, 51%, 5% |
| CMY | 0.0000, 0.4863, 0.9452 |
| CMYK | 0.00, 0.49, 0.95, 0.00 |
| HSL | 29°, 100%, 53% |
| HSV | 29°, 95%, 100% |
| XYZ | 49.4404, 37.5243, 5.0517 |
| YIQ | 154.7380, 111.4610, -10.0990 |

Conversions

Conversions Part 2

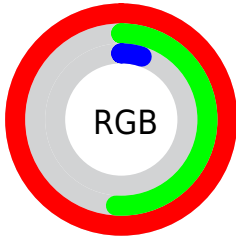
| Format | Color |
|-------------------------------------|--------------------------------|
| R _Y B | 255, 241, 14 |
| Decimal | 16745230 |
| CIE Lab | 67.67, 41.48, 72.39 |
| CIE LCh | 68, 83.430, 60.190 |
| Yxy | 37.5243, 0.5373, 0.4078 |
| Android (android.graphics.Color) | 4294935310 (0xFFFF830E) |
| YUV | 154.7380, -69.3838, 87.9298 |
| Hunter-Lab | 61.2571, 36.8670, 37.9905 |

Details

The Yxy color **37.5243, 0.5373, 0.4078** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **25.4867, 0.1810, 0.1689**, and the grayscale version is **32.9295, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.5080, 0.4563, 0.4300**, and **16.6683, 0.5662, 0.3887** is the 20% darker color. If you saturate the color by 10%, you get **35.6254, 0.5479, 0.4031**, and if you desaturate by 10%, it is **41.3912, 0.5149, 0.4130**.

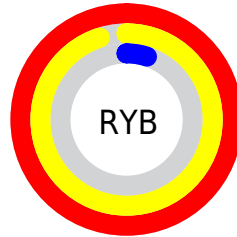
Distribution



Red (100%)

Green (51%)

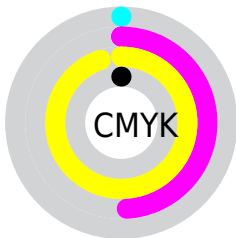
Blue (5%)



Red (100%)

Yellow (95%)

Blue (5%)

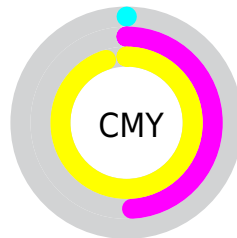


Cyan (0%)

Magenta (49%)

Yellow (95%)

Black (0%)



Cyan (0%)


Magenta (49%)


Yellow (95%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 37.5243, 0.5373, 0.4078 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 37.5243, 0.5373, 0.4078 by changing the saturation by 10% instead.

 37.5243, 0.5373,
0.4078


 37.5243, 0.5373,
0.4078


335.5749, 0.4311,
0.3858

 25.6137, 0.5583,
0.4065


 71.3784, 0.5022,
0.4049

 16.5349, 0.5820,
0.4014


 94.0907, 0.4879,
0.4023

 9.9034, 0.6092,
0.3908


 121.1724, 0.4753,
0.3994

 5.3350, 0.6333,
0.3667

 153.0078, 0.4642,
0.3965

 2.4451, 0.6689,
0.3311

 189.9814, 0.4544,
0.3936


 0.8490, 0.7258,
0.2742

 232.4775, 0.4458,


 0.0000, 1.0000,


0.3909


0.0000

 280.8805, 0.4380,
0.3883


 0.0000, 0.0000,
0.0000


 37.5243, 0.5373,
0.4078


 37.5243, 0.5373,
0.4078


 35.6254, 0.5479,
0.4031


 41.3912, 0.5149,
0.4130

 45.8351, 0.4886,
0.4125

 50.8893, 0.4604,
0.4071


 56.5839, 0.4319,
0.3979

 62.9464, 0.4047,
0.3863

 70.0020, 0.3797,
0.3733

 77.7744, 0.3571,
0.3600

 86.2860, 0.3372,
0.3469

 95.5579, 0.3198,
0.3344

Harmonies

Analogous

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



37.5243, 0.5419, 0.3300



37.5243, 0.5373, 0.4078



37.5243, 0.4672, 0.4926

Triad

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



37.5243, 0.5373, 0.4078



37.5243, 0.1708, 0.3958



37.5243, 0.2205, 0.1668

Complementary

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



37.5243, 0.5373, 0.4078



25.4867, 0.1810, 0.1689

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.



37.5243, 0.1528, 0.1604



37.5243, 0.5373, 0.4078



37.5243, 0.1271, 0.2612

Square

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



37.5243, 0.5373, 0.4078



37.5243, 0.2583, 0.5322



37.5243, 0.1232, 0.1870



37.5243, 0.3311, 0.2012

Rectangle

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



37.5243, 0.5373, 0.4078



37.5243, 0.4015, 0.5421



37.5243, 0.1232, 0.1870



37.5243, 0.1932, 0.1614

Sweetspot

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



37.5231, 0.5373, 0.4078



74.9839, 0.3647, 0.3647



23.4234, 0.4805, 0.2446



15.3361, 0.3745, 0.3704



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.



37.5231, 0.5373, 0.4078



35.6254, 0.5479, 0.4031



90.2754, 0.4213, 0.5017



19.4427, 0.3282, 0.3406



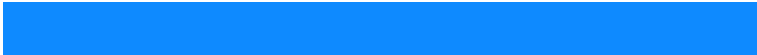
18.9113, 0.5453, 0.4052



2.0590, 0.5272, 0.4196

Inverse Universe

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



25.4867, 0.1810, 0.1689



23.5061, 0.1776, 0.1594



7.7459, 0.1520, 0.0638



18.9235, 0.2979, 0.3172



12.5829, 0.1784, 0.1622



1.4440, 0.1840, 0.1824

Previews

White Background



This preview shows how the Yxy color 37.5243, 0.5373, 0.4078 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 37.5243, 0.5373, 0.4078 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 37.5243, 0.5373, 0.4078

Background



This preview shows how black text looks on a background with the Yxy color 37.5243, 0.5373, 0.4078.



This preview shows how white text looks on a background with the Yxy color 37.5243, 0.5373, 0.4078.

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

37.5243, 0.5373, 0.4078

Protanopia

37.7861, 0.4350, 0.4824

Deuteranopia

37.6693, 0.4719, 0.4635



Tritanopia

37.5932, 0.4522, 0.3223

Trichromacy



Original Color

37.5243, 0.5373, 0.4078

Protanomaly

36.6893, 0.4746, 0.4535

Deuteranomaly

37.3595, 0.4969, 0.4422

Tritanomaly

37.1600, 0.4976, 0.3652

Monochromacy



Original Color

37.5243, 0.5373, 0.4078

Achromatopsia

32.7778, 0.3127, 0.3290

Achromatomaly

32.6336, 0.4055, 0.3863

CSS Examples

Text

The CSS property to change the color of the text to Yxy 37.5243, 0.5373, 0.4078 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, 131, 14)` looks like.

```
.text, #text, p{  
    color:rgb(255, 131, 14)  
}
```

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, 131, 14) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 131, 14) }
```

Border

The CSS property to change the border of an element to Yxy 37.5243, 0.5373, 0.4078 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, 131, 14) }
```

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

```
.border{ border-color:rgb(255, 131, 14) }
```

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

Here you see how a box with a 4 pixel rgb(255, 131, 14) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 131, 14); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 131, 14);  
box-shadow:4px 4px 4px 4px rgb(255, 131,  
14) }
```


Background

The CSS property to change the background color of an element to Yxy 37.5243, 0.5373, 0.4078 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 131, 14) }
```

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

```
.background{ background-color: rgb(255,  
131, 14) }
```

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