

Converting Colors

$Y_{xy}(42.2050, 0.5185, 0.4226)$

Have a look what the booklet for
Yxy(42.2050, 0.5185, 0.4226)
contains.

Yxy(42.1619, 0.5187, 0.4225)	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(42.1619, 0.5187, 0.4225)

Conversions

Conversions Part 1

Format	Color
Hex	FF930F
RGB	255, 147, 15
RGB Percent	100%, 58%, 6%
CMY	0.0000, 0.4235, 0.9405
CMYK	0.00, 0.42, 0.94, 0.00
HSL	33°, 100%, 53%
HSV	33°, 94%, 100%
XYZ	51.7618, 42.1619, 5.8677
YIQ	164.2440, 106.7400, -18.1560

Conversions

Conversions Part 2

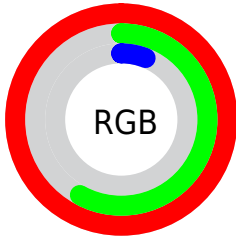
Format	Color
RYB	211, 255, 15
Decimal	16749327
CIELab	70.98, 33.39, 74.43
CIELCh	71, 81.572, 65.838
Yxy	42.1619, 0.5187, 0.4225
Android (android.graphics.Color)	4294939407 (0xFFFF930F)
YUV	164.2440, -73.5773, 79.5930
Hunter-Lab	64.9322, 28.6631, 40.0947

Details

The Yxy color **42.1619, 0.5187, 0.4225** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **21.5293, 0.1757, 0.1492**, and the grayscale version is **37.5761, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.0951, 0.4411, 0.4429**, and **19.2608, 0.5418, 0.4080** is the 20% darker color. If you saturate the color by 10%, you get **40.0672, 0.5288, 0.4183**, and if you desaturate by 10%, it is **46.0378, 0.4991, 0.4259**.

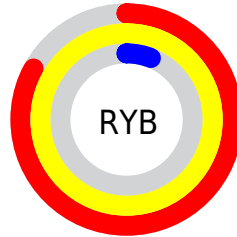
Distribution



Red (100%)

Green (58%)

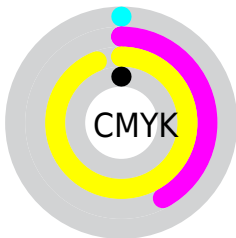
Blue (6%)



Red (83%)

Yellow (100%)

Blue (6%)

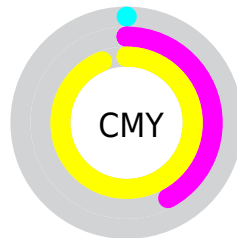


Cyan (0%)

Magenta (42%)

Yellow (94%)

Black (0%)



Cyan (0%)


Magenta (42%)


Yellow (94%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 42.1619, 0.5187, 0.4225 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 42.1619, 0.5187, 0.4225 by changing the saturation by 10% instead.

 42.1619, 0.5187,
0.4225

 42.1619, 0.5187,
0.4225


355.1536, 0.4236,
0.3919


 29.2281, 0.5371,
0.4238


 78.4446, 0.4878,
0.4161

 19.2534, 0.5572,
0.4222

 102.5623, 0.4750,
0.4123

 11.8535, 0.5821,
0.4179


 131.1767, 0.4637,
0.4084

 6.6440, 0.6004,
0.3996

 164.6722, 0.4537,
0.4047

 3.2405, 0.6271,
0.3729

 203.4333, 0.4449,
0.4012

 1.2585, 0.6696,
0.3304

 247.8443, 0.4370,

 0.1088, 0.8944,

0.3979

0.1056

298.2896, 0.4299,
0.3948

■ 0.0000, 0.0000,
0.0000

■ 42.1619, 0.5187,
0.4225

■ 42.1619, 0.5187,
0.4225

■ 40.0672, 0.5288,
0.4183


■ 46.0378, 0.4991,
0.4259

■ 50.3932, 0.4759,
0.4238


■ 55.2586, 0.4508,
0.4167


■ 60.6591, 0.4251,
0.4060

■ 66.6172, 0.4001,
0.3927

 73.1535, 0.3767,
0.3782

 80.2874, 0.3553,
0.3633

 88.0369, 0.3361,
0.3486

 96.4193, 0.3190,
0.3345

Harmonies

Analogous

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



42.1619, 0.5350, 0.3458



42.1619, 0.5187, 0.4225



42.1619, 0.4457, 0.5015

Triad

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



42.1619, 0.5187, 0.4225



42.1619, 0.1671, 0.3654



42.1619, 0.2424, 0.1779

Complementary

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



42.1619, 0.5187, 0.4225



21.5293, 0.1757, 0.1492

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.



42.1619, 0.1692, 0.1667



42.1619, 0.5187, 0.4225



42.1619, 0.1319, 0.2484

Square

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



42.1619, 0.5187, 0.4225



42.1619, 0.2446, 0.4998



42.1619, 0.1339, 0.1864



42.1619, 0.3537, 0.2162

Rectangle

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



42.1619, 0.5187, 0.4225



42.1619, 0.3811, 0.5406



42.1619, 0.1339, 0.1864



42.1619, 0.2134, 0.1711

Sweetspot

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



42.1636, 0.5187, 0.4225



77.3985, 0.3635, 0.3692



23.1410, 0.4995, 0.2555



15.9138, 0.3728, 0.3756



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.



42.1636, 0.5187, 0.4225



40.0672, 0.5288, 0.4183



91.3301, 0.4129, 0.5082



19.6425, 0.3280, 0.3421



21.2386, 0.5265, 0.4202



2.2863, 0.5109, 0.4325

Inverse Universe

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



21.5293, 0.1757, 0.1492



19.4417, 0.1717, 0.1382



7.7504, 0.1530, 0.0638



18.7247, 0.2979, 0.3156



10.4472, 0.1726, 0.1412



1.2317, 0.1786, 0.1629

Previews

White Background



This preview shows how the Yxy color 42.1619, 0.5187, 0.4225 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 42.1619, 0.5187, 0.4225 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 42.1619, 0.5187, 0.4225

Background



This preview shows how black text looks on a background with the Yxy color 42.1619, 0.5187, 0.4225.



This preview shows how white text looks on a background with the Yxy color 42.1619, 0.5187, 0.4225.

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

42.1619, 0.5187, 0.4225

Protanopia

42.4659, 0.4357, 0.4835

Deuteranopia

42.1259, 0.4724, 0.4631



Tritanopia

42.1861, 0.4250, 0.3200

Trichromacy



Original Color

42.1619, 0.5187, 0.4225

Protanomaly

41.7161, 0.4666, 0.4612

Deuteranomaly

41.7905, 0.4907, 0.4471

Tritanomaly

41.8250, 0.4743, 0.3718

Monochromacy



Original Color

42.1619, 0.5187, 0.4225

Achromatopsia

37.1238, 0.3127, 0.3290

Achromatomaly

37.4498, 0.3986, 0.3922

CSS Examples

Text

The CSS property to change the color of the text to Yxy 42.1619, 0.5187, 0.4225 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, 147, 15)` looks like.

```
.text, #text, p{  
    color:rgb(255, 147, 15)  
}
```

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, 147, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 147, 15) }
```

Border

The CSS property to change the border of an element to Yxy 42.1619, 0.5187, 0.4225 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, 147, 15) }
```

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

```
.border{ border-color:rgb(255, 147, 15) }
```

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

Here you see how a box with a 4 pixel rgb(255, 147, 15) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 147, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 147, 15);  
box-shadow:4px 4px 4px 4px rgb(255, 147,  
15) }
```


Background

The CSS property to change the background color of an element to Yxy 42.1619, 0.5187, 0.4225 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 147, 15) }
```

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

```
.background{ background-color: rgb(255,  
147, 15) }
```

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