

Converting Colors

$Y_{xy}(45.4274, 0.4996, 0.4415)$

Have a look what the booklet for
Yxy(45.4274, 0.4996, 0.4415)
contains.

| | |
|---|----|
| Yxy(45.4462, 0.4998, 0.4414) | 3 |
| Conversions | 4 |
| Details | 6 |
| Harmonies | 12 |
| Previews | 24 |
| Color Blindness Simulation | 27 |
| CSS Examples | 30 |

Color

Yxy(45.4462, 0.4998, 0.4414)

Conversions

Conversions Part 1

| Format | Color |
|-------------|------------------------------|
| Hex | F8A100 |
| RGB | 248, 161, 0 |
| RGB Percent | 97%, 63%, 0% |
| CMY | 0.0274, 0.3686, 1.0000 |
| CMYK | 0.00, 0.35, 1.00, 0.03 |
| HSL | 39°, 100%, 49% |
| HSV | 39°, 100%, 97% |
| XYZ | 51.4590, 45.4462, 6.0540 |
| YIQ | 168.6590, 103.5330, -31.6270 |

Conversions

Conversions Part 2

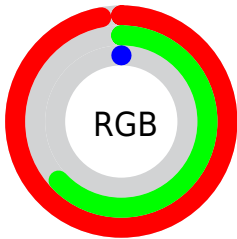
| Format | Color |
|-------------------------------------|--------------------------------|
| RYB | 134, 248, 0 |
| Decimal | 16294144 |
| CIELab | 73.18, 23.10, 77.43 |
| CIELCh | 73, 80.804, 73.390 |
| Yxy | 45.4462, 0.4998, 0.4414 |
| Android (android.graphics.Color) | 4294484224 (0xFF8A100) |
| YUV | 168.6590, -83.1489, 69.5821 |
| Hunter-Lab | 67.4138, 18.2804, 41.8652 |

Details

The Yxy color **45.4462, 0.4998, 0.4414** 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 **13.5964, 0.1637, 0.1094**, and the grayscale version is **39.8811, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.9218, 0.4321, 0.4562**, and **21.2516, 0.5148, 0.4294** is the 20% darker color. If you saturate the color by 10%, you get **45.4490, 0.4998, 0.4414**, and if you desaturate by 10%, it is **48.6661, 0.4865, 0.4450**.

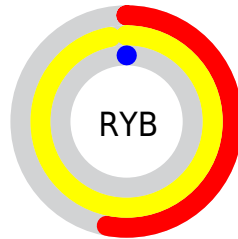
Distribution



Red (97%)

Green (63%)

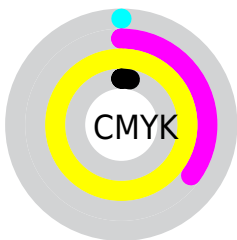
Blue (0%)



Red (53%)

Yellow (97%)

Blue (0%)

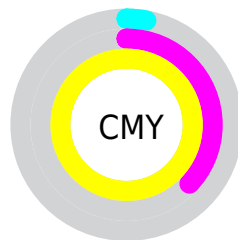


Cyan (0%)

Magenta (35%)

Yellow (100%)

Black (3%)



Cyan (3%)


Magenta (37%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.4462, 0.4998, 0.4414 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 45.4462, 0.4998, 0.4414 by changing the saturation by 10% instead.


 45.4462, 0.4998,
0.4414


 45.4462, 0.4998,
0.4414


368.5777, 0.4159,
0.4006


 31.8090, 0.5153,
0.4454


 83.3896, 0.4731,
0.4311


 21.2157, 0.5317,
0.4472


 108.4646, 0.4619,
0.4259

 13.2817, 0.5521,
0.4479


 138.1210, 0.4519,
0.4209

 7.6228, 0.5645,
0.4355

 172.7431, 0.4430,
0.4162

 3.8546, 0.5827,
0.4173

 212.7155, 0.4351,
0.4118

 1.5926, 0.6118,
0.3882

 258.4225, 0.4280,

 0.3526, 0.7186,

0.4077

0.2814

310.2484, 0.4217,
0.4040

0.0000, 0.0000,
0.0000

45.4462, 0.4998,
0.4414

45.4462, 0.4998,
0.4414

45.4490, 0.4998,
0.4414

48.6661, 0.4865,
0.4450

52.1873, 0.4701,
0.4438

56.0438, 0.4508,
0.4374

60.2559, 0.4296,
0.4267

64.8414, 0.4078,
0.4127

■ 69.8159, 0.3861,
0.3966

■ 75.1940, 0.3655,
0.3795

■ 80.9891, 0.3462,
0.3621

■ 87.2137, 0.3286,
0.3452

Harmonies

Analogous

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



45.4462, 0.5314, 0.3650



45.4462, 0.4998, 0.4414



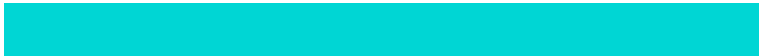
45.4462, 0.4206, 0.5140

Triad

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



45.4462, 0.4998, 0.4414



45.4462, 0.1587, 0.3317



45.4462, 0.2689, 0.1888

Complementary

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



45.4462, 0.4998, 0.4414



13.5964, 0.1637, 0.1094

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.



45.4462, 0.1872, 0.1708



45.4462, 0.4998, 0.4414



45.4462, 0.1337, 0.2313

Square

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



45.4462, 0.4998, 0.4414



45.4462, 0.2249, 0.4646



45.4462, 0.1437, 0.1821



45.4462, 0.3829, 0.2323

Rectangle

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



45.4462, 0.4998, 0.4414



45.4462, 0.3553, 0.5406



45.4462, 0.1437, 0.1821



45.4462, 0.2373, 0.1798

Sweetspot

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



45.4490, 0.4998, 0.4414



80.0700, 0.3655, 0.3796



20.7131, 0.5558, 0.2835



16.6093, 0.3741, 0.3869



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.



45.4490, 0.4998, 0.4414



48.3644, 0.4999, 0.4413



81.5814, 0.3956, 0.5241



19.1058, 0.3278, 0.3444



24.8220, 0.4981, 0.4427



2.4978, 0.4863, 0.4521

Inverse Universe

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



13.5964, 0.1637, 0.1094



14.4421, 0.1637, 0.1091



7.1026, 0.1542, 0.0623



17.6391, 0.2979, 0.3132



7.5813, 0.1645, 0.1122



0.8929, 0.1711, 0.1358

Previews

White Background



This preview shows how the Yxy color 45.4462, 0.4998, 0.4414 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 45.4462, 0.4998, 0.4414 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 45.4462, 0.4998, 0.4414

Background



This preview shows how black text looks on a background with the Yxy color 45.4462, 0.4998, 0.4414.



This preview shows how white text looks on a background with the Yxy color 45.4462, 0.4998, 0.4414.

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

45.4462, 0.4998, 0.4414

Protanopia

45.7847, 0.4378, 0.4859

Deuteranopia

45.6198, 0.4725, 0.4630



Tritanopia

45.6459, 0.4077, 0.3177

Trichromacy



Original Color

45.4462, 0.4998, 0.4414

Protanomaly

45.3563, 0.4602, 0.4700

Deuteranomaly

45.2996, 0.4828, 0.4549

Tritanomaly

44.7660, 0.4615, 0.3819

Monochromacy



Original Color

45.4462, 0.4998, 0.4414

Achromatopsia

39.6755, 0.3127, 0.3290

Achromatomaly

40.3609, 0.3968, 0.4041

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.4462, 0.4998, 0.4414 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(248, 161, 0)` looks like.

```
.text, #text, p{  
    color:rgb(248, 161, 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(248, 161, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(248, 161, 0) }
```

Border

The CSS property to change the border of an element to Yxy 45.4462, 0.4998, 0.4414 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(248, 161, 0) }
```

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

```
.border{ border-color:rgb(248, 161, 0) }
```

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

Here you see how a box with a 4 pixel rgb(248, 161, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(248, 161, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(248, 161, 0);  
box-shadow:4px 4px 4px 4px rgb(248, 161,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 45.4462, 0.4998, 0.4414 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(248, 161, 0) }
```

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

```
.background{ background-color: rgb(248,  
161, 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](#).

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