

Converting Colors

$Y_{xy}(47.7707, 0.5011, 0.4055)$

Have a look what the booklet for
Yxy(47.7707, 0.5011, 0.4055)
contains.

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Color

Yxy(45.0729, 0.4914, 0.4110)

Conversions

Conversions Part 1

Format	Color
Hex	FF9B40
RGB	255, 155, 64
RGB Percent	100%, 61%, 25%
CMY	0.0000, 0.3922, 0.7492
CMYK	0.00, 0.39, 0.75, 0.00
HSL	29°, 100%, 63%
HSV	29°, 75%, 100%
XYZ	53.8901, 45.0729, 10.7034
YIQ	174.5260, 88.8110, -7.1010

Conversions

Conversions Part 2

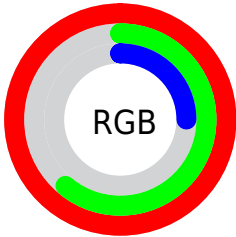
Format	Color
RYB	255, 238, 64
Decimal	16751424
CIELab	72.94, 30.47, 61.04
CIElCh	73, 68.225, 63.471
Yxy	45.0729, 0.4914, 0.4110
Android (android.graphics.Color)	4294941504 (0xFFFF9B40)
YUV	174.5260, -54.4893, 70.5757
Hunter-Lab	67.1364, 25.7926, 37.5429

Details

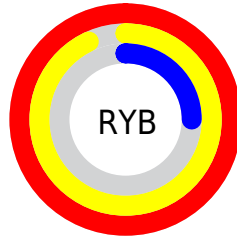
The Yxy color **45.0729, 0.4914, 0.4110** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **34.8445, 0.1992, 0.2076**, and the grayscale version is **42.8611, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.6375, 0.4150, 0.4220**, and **21.0380, 0.5313, 0.4164** is the 20% darker color. If you saturate the color by 10%, you get **40.6456, 0.5180, 0.4110**, and if you desaturate by 10%, it is **50.1229, 0.4627, 0.4060**.

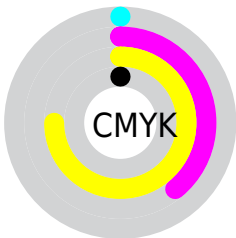
Distribution



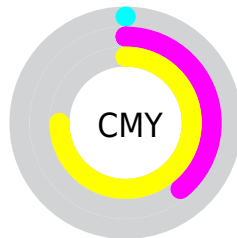
- Red (100%)
- Green (61%)
- Blue (25%)



- Red (100%)
- Yellow (93%)
- Blue (25%)



- Cyan (0%)
- Magenta (39%)
- Yellow (75%)
- Black (0%)





- Cyan (0%)
- Magenta (39%)
- Yellow (75%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.0729, 0.4914, 0.4110 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 45.0729, 0.4914, 0.4110 by changing the saturation by 10% instead.


 45.0729, 0.4914,
0.4110

 45.0729, 0.4914,
0.4110


367.0687, 0.4060,
0.3803


 31.5149, 0.5097,
0.4146


 82.8298, 0.4623,
0.4028


 20.9912, 0.5310,
0.4168


 107.7974, 0.4507,
0.3988

 13.1176, 0.5553,
0.4159


 137.3371, 0.4407,
0.3951

 7.5096, 0.5876,
0.4124

 171.8330, 0.4320,
0.3916

 3.7828, 0.6106,
0.3894

 211.6698, 0.4243,
0.3884

 1.5528, 0.6468,
0.3532

257.2318, 0.4175,

 0.3255, 0.7670,

0.3855

0.2330

308.9033, 0.4114,
0.3828

0.0000, 1.0000,
0.0000

0.0000, 0.0000,
0.0000

45.0729, 0.4914,
0.4110

45.0729, 0.4914,
0.4110

40.6456, 0.5180,
0.4110

50.1229, 0.4627,
0.4060

36.8068, 0.5406,
0.4055

55.8283, 0.4339,
0.3971

35.0618, 0.5506,
0.4010

62.2168, 0.4063,
0.3857

69.3145, 0.3809,
0.3731

77.1460, 0.3581,
0.3600

85.7342, 0.3380,
0.3471

95.1010, 0.3205,
0.3348

100.0000, 0.3127,
0.3290

Harmonies

Analogous

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



45.0729, 0.4952, 0.3439



45.0729, 0.4914, 0.4110



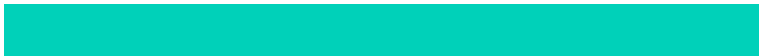
45.0729, 0.4367, 0.4746

Triad

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



45.0729, 0.4914, 0.4110



45.0729, 0.1952, 0.3693



45.0729, 0.2485, 0.1974

Complementary

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



45.0729, 0.4914, 0.4110



34.8445, 0.1992, 0.2076

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.



45.0729, 0.1866, 0.1901



45.0729, 0.4914, 0.4110



45.0729, 0.1591, 0.2710

Square

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



45.0729, 0.4914, 0.4110



45.0729, 0.2658, 0.4706



45.0729, 0.1572, 0.2120



45.0729, 0.3399, 0.2296

Rectangle

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



45.0729, 0.4914, 0.4110



45.0729, 0.3834, 0.5030



45.0729, 0.1572, 0.2120



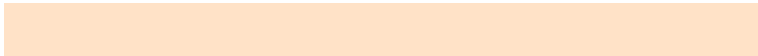
45.0729, 0.2242, 0.1920

Sweetspot

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



45.0724, 0.4914, 0.4110



79.5731, 0.3520, 0.3562



27.6696, 0.4293, 0.2379



16.5487, 0.3577, 0.3597



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.



45.0724, 0.4914, 0.4110



38.6239, 0.5301, 0.4089



89.1537, 0.4146, 0.4868



19.4151, 0.3282, 0.3404



18.6151, 0.5479, 0.4031



2.0295, 0.5295, 0.4178

Inverse Universe

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



34.8445, 0.1992, 0.2076



27.8772, 0.1850, 0.1798



12.7298, 0.1708, 0.0972



18.9513, 0.2979, 0.3174



12.9078, 0.1793, 0.1653



1.4757, 0.1848, 0.1852

Previews

White Background



This preview shows how the Yxy color 45.0729, 0.4914, 0.4110 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 45.0729, 0.4914, 0.4110 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 45.0729, 0.4914, 0.4110

Background



This preview shows how black text looks on a background with the Yxy color 45.0729, 0.4914, 0.4110.



This preview shows how white text looks on a background with the Yxy color 45.0729, 0.4914, 0.4110.

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

45.0729, 0.4914, 0.4110

Protanopia

45.3768, 0.4161, 0.4574

Deuteranopia

45.0728, 0.4545, 0.4432



Tritanopia

44.9084, 0.4117, 0.3188

Trichromacy



Original Color

45.0729, 0.4914, 0.4110

Protanomaly

44.7588, 0.4441, 0.4405

Deuteranomaly

45.0801, 0.4678, 0.4314

Tritanomaly

44.8485, 0.4455, 0.3572

Monochromacy



Original Color

45.0729, 0.4914, 0.4110

Achromatopsia

42.8690, 0.3127, 0.3290

Achromatomaly

42.5919, 0.3772, 0.3712

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.0729, 0.4914, 0.4110 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, 155, 64)` looks like.

```
.text, #text, p{  
    color:rgb(255, 155, 64)  
}
```

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, 155, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 155, 64) }
```

Border

The CSS property to change the border of an element to Yxy 45.0729, 0.4914, 0.4110 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, 155, 64) }
```

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

```
.border{ border-color:rgb(255, 155, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 155, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 155, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 155, 64);  
box-shadow:4px 4px 4px 4px rgb(255, 155,  
64) }
```


Background

The CSS property to change the background color of an element to Yxy 45.0729, 0.4914, 0.4110 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 155, 64) }
```

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

```
.background{ background-color: rgb(255,  
155, 64) }
```

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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