

Converting Colors

$Y_{xy}(48.1942, 0.4778, 0.4137)$

Have a look what the booklet for
Yxy(48.1942, 0.4778, 0.4137)
contains.

Yxy(48.2920, 0.4775, 0.4138)	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(48.2920, 0.4775, 0.4138)

Conversions

Conversions Part 1

Format	Color
Hex	FFA449
RGB	255, 164, 73
RGB Percent	100%, 64%, 29%
CMY	0.0000, 0.3569, 0.7138
CMYK	0.00, 0.36, 0.71, 0.00
HSL	30°, 100%, 64%
HSV	30°, 71%, 100%
XYZ	55.7260, 48.2920, 12.6857
YIQ	180.8350, 83.4470, -9.0090

Conversions

Conversions Part 2

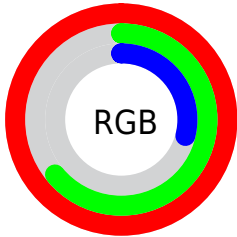
Format	Color
RYB	255, 255, 73
Decimal	16753737
CIELab	75.01, 26.20, 59.23
CIELCh	75, 64.767, 66.136
Yxy	48.2920, 0.4775, 0.4138
Android (android.graphics.Color)	4294943817 (0xFFFFA449)
YUV	180.8350, -53.1627, 65.0427
Hunter-Lab	69.4924, 21.5275, 37.8215

Details

The Yxy color **48.2920, 0.4775, 0.4138** 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 **35.1872, 0.2018, 0.2084**, and the grayscale version is **46.3695, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.4294, 0.4043, 0.4221**, and **22.9632, 0.5135, 0.4229** is the 20% darker color. If you saturate the color by 10%, you get **43.6802, 0.5038, 0.4163**, and if you desaturate by 10%, it is **53.4938, 0.4497, 0.4067**.

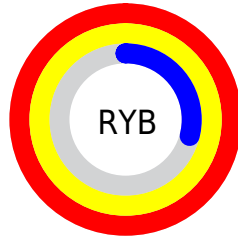
Distribution



Red (100%)

Green (64%)

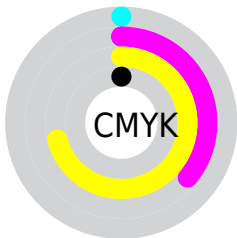
Blue (29%)



Red (100%)

Yellow (100%)

Blue (29%)

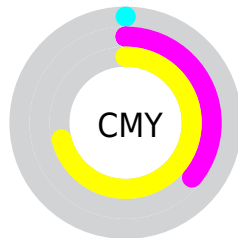


Cyan (0%)

Magenta (36%)

Yellow (71%)

Black (0%)



Cyan (0%)


Magenta (36%)


Yellow (71%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 48.2920, 0.4775, 0.4138 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 48.2920, 0.4775, 0.4138 by changing the saturation by 10% instead.


 48.2920, 0.4775,
0.4138


 48.2920, 0.4775,
0.4138


379.9484, 0.3993,
0.3804


 34.0582, 0.4943,
0.4186


 87.6390, 0.4508,
0.4042

 22.9383, 0.5140,
0.4227


 113.5210, 0.4403,
0.3999


 14.5480, 0.5367,
0.4247


 144.0545, 0.4311,
0.3958

 8.5028, 0.5690,
0.4270

 179.6239, 0.4231,
0.3922

 4.4183, 0.5900,
0.4100

 220.6136, 0.4160,
0.3888

 1.9102, 0.6192,
0.3808

267.4079, 0.4098,

 0.5545, 0.6858,

0.3858

0.3142

320.3914, 0.4042,
0.3830

0.0000, 1.0000,
0.0000

0.0000, 0.0000,
0.0000

48.2920, 0.4775,
0.4138

48.2920, 0.4775,
0.4138

43.6802, 0.5038,
0.4163

53.4938, 0.4497,
0.4067

39.6359, 0.5269,
0.4132

59.3227, 0.4221,
0.3963

36.5667, 0.5436,
0.4066

65.8011, 0.3959,
0.3838

72.9527, 0.3720,
0.3703

80.7997, 0.3505,
0.3566

89.3628, 0.3315,
0.3433

98.6621, 0.3148,
0.3307

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.



48.2920, 0.4846, 0.3502



48.2920, 0.4775, 0.4138



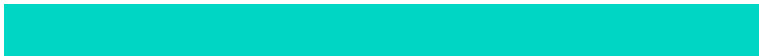
48.2920, 0.4242, 0.4708

Triad

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



48.2920, 0.4775, 0.4138



48.2920, 0.1986, 0.3579



48.2920, 0.2597, 0.2067

Complementary

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



48.2920, 0.4775, 0.4138



35.1872, 0.2018, 0.2084

Split Complementary

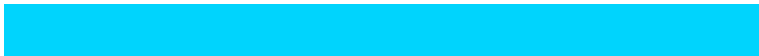
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



48.2920, 0.1981, 0.1978



48.2920, 0.4775, 0.4138



48.2920, 0.1667, 0.2694

Square

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



48.2920, 0.4775, 0.4138



48.2920, 0.2631, 0.4523



48.2920, 0.1673, 0.2165



48.2920, 0.3467, 0.2392

Rectangle

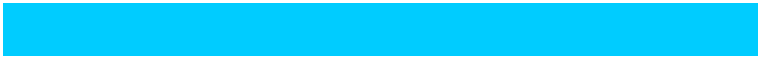
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.2920, 0.4775, 0.4138



48.2920, 0.3734, 0.4928



48.2920, 0.1673, 0.2165



48.2920, 0.2358, 0.2009

Sweetspot

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



48.2889, 0.4775, 0.4138



81.1082, 0.3497, 0.3561



28.8152, 0.4256, 0.2424



16.8800, 0.3554, 0.3599



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.



48.2889, 0.4775, 0.4138



41.7419, 0.5150, 0.4156



91.3407, 0.4099, 0.4847



19.4876, 0.3282, 0.3409



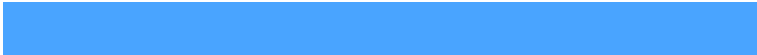
19.4055, 0.5411, 0.4086



2.1078, 0.5235, 0.4226

Inverse Universe

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



35.1872, 0.2018, 0.2084



27.9492, 0.1863, 0.1799



13.8086, 0.1755, 0.1036



18.8785, 0.2979, 0.3168



12.0709, 0.1771, 0.1574



1.3937, 0.1828, 0.1779

Previews

White Background



This preview shows how the Yxy color 48.2920, 0.4775, 0.4138 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 48.2920, 0.4775, 0.4138 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 48.2920, 0.4775, 0.4138

Background



This preview shows how black text looks on a background with the Yxy color 48.2920, 0.4775, 0.4138.



This preview shows how white text looks on a background with the Yxy color 48.2920, 0.4775, 0.4138.

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

48.2920, 0.4775, 0.4138

Protanopia

48.3842, 0.4132, 0.4522

Deuteranopia

48.4818, 0.4483, 0.4383



Tritanopia

48.1640, 0.3988, 0.3187

Trichromacy



Original Color

48.2920, 0.4775, 0.4138

Protanomaly

47.8274, 0.4371, 0.4373

Deuteranomaly

48.4852, 0.4590, 0.4295

Tritanomaly

48.0951, 0.4314, 0.3574

Monochromacy



Original Color

48.2920, 0.4775, 0.4138

Achromatopsia

46.2077, 0.3127, 0.3290

Achromatomaly

46.0228, 0.3719, 0.3703

CSS Examples

Text

The CSS property to change the color of the text to Yxy 48.2920, 0.4775, 0.4138 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, 164, 73)` looks like.

```
.text, #text, p{  
    color:rgb(255, 164, 73)  
}
```

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, 164, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 164, 73) }
```

Border

The CSS property to change the border of an element to Yxy 48.2920, 0.4775, 0.4138 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, 164, 73) }
```

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

```
.border{ border-color:rgb(255, 164, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 164, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 164, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 164, 73);  
box-shadow:4px 4px 4px 4px rgb(255, 164,  
73) }
```


Background

The CSS property to change the background color of an element to Yxy 48.2920, 0.4775, 0.4138 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 164, 73) }
```

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

```
.background{ background-color: rgb(255,  
164, 73) }
```

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