

Converting Colors

$Y_{xy}(45.9869, 0.4951, 0.4210)$

Have a look what the booklet for
Yxy(45.9869, 0.4951, 0.4210)
contains.

Yxy(45.9527, 0.4952, 0.4209)	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(45.9527, 0.4952, 0.4209)

Conversions

Conversions Part 1

Format	Color
Hex	FF9E33
RGB	255, 158, 51
RGB Percent	100%, 62%, 20%
CMY	0.0000, 0.3804, 0.7997
CMYK	0.00, 0.38, 0.80, 0.00
HSL	31°, 100%, 60%
HSV	31°, 80%, 100%
XYZ	54.0646, 45.9527, 9.1600
YIQ	174.8050, 92.1590, -12.7130

Conversions

Conversions Part 2

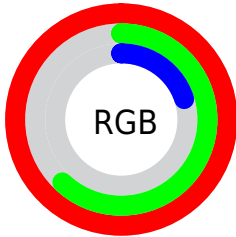
Format	Color
R _Y B	236, 255, 51
Decimal	16752179
CIE Lab	73.51, 28.44, 66.70
CIE LCh	74, 72.512, 66.907
Yxy	45.9527, 0.4952, 0.4209
Android (android.graphics.Color)	4294942259 (0xFFFF9E33)
YUV	174.8050, -61.0359, 70.3310
Hunter-Lab	67.7884, 23.7327, 39.4403

Details

The Yxy color **45.9527, 0.4952, 0.4209** 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 **29.1236, 0.1902, 0.1846**, and the grayscale version is **43.0548, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.8891, 0.4199, 0.4339**, and **21.5145, 0.5258, 0.4207** is the 20% darker color. If you saturate the color by 10%, you get **41.8526, 0.5176, 0.4192**, and if you desaturate by 10%, it is **50.5891, 0.4698, 0.4172**.

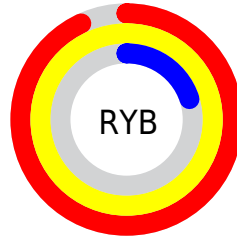
Distribution



Red (100%)

Green (62%)

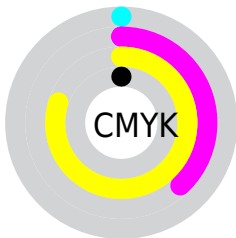
Blue (20%)



Red (93%)

Yellow (100%)

Blue (20%)

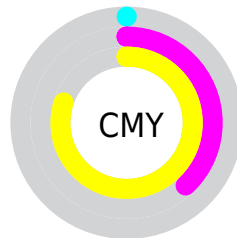


Cyan (0%)

Magenta (38%)

Yellow (80%)

Black (0%)



Cyan (0%)


Magenta (38%)


Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.9527, 0.4952, 0.4209 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 45.9527, 0.4952, 0.4209 by changing the saturation by 10% instead.

 45.9527, 0.4952,
0.4209


 45.9527, 0.4952,
0.4209


370.6185, 0.4098,
0.3869


 32.2085, 0.5127,
0.4247


 84.1482, 0.4667,
0.4120


 21.5208, 0.5326,
0.4269


 109.3683, 0.4552,
0.4076


 13.5052, 0.5554,
0.4263


 139.1825, 0.4451,
0.4034

 7.7774, 0.5804,
0.4196

 173.9751, 0.4362,
0.3996

 3.9528, 0.6017,
0.3983

 214.1307, 0.4284,
0.3960

 1.6472, 0.6352,
0.3648

 260.0335, 0.4215,

 0.3891, 0.7359,

0.3927

0.2641

312.0679, 0.4153,
0.3897

■ 0.0000, 1.0000,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 45.9527, 0.4952,
0.4209

■ 45.9527, 0.4952,
0.4209

■ 41.8526, 0.5176,
0.4192

■ 50.5891, 0.4698,
0.4172

■ 38.2410, 0.5363,
0.4124

■ 55.7836, 0.4431,
0.4090

■ 38.2315, 0.5363,
0.4124

■ 61.5641, 0.4166,
0.3977

■ 67.9541, 0.3914,
0.3844

■ 74.9751, 0.3682,
0.3702

■ 82.6475, 0.3474,
0.3560

■ 90.9905, 0.3289,
0.3421

99.9991, 0.3127,
0.3290

Harmonies

Analogous

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



45.9527, 0.5077, 0.3510



45.9527, 0.4952, 0.4209



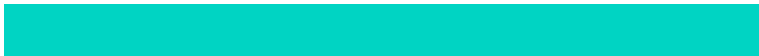
45.9527, 0.4323, 0.4871

Triad

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



45.9527, 0.4952, 0.4209



45.9527, 0.1830, 0.3577



45.9527, 0.2546, 0.1944

Complementary

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



45.9527, 0.4952, 0.4209



29.1236, 0.1902, 0.1846

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.



45.9527, 0.1865, 0.1835



45.9527, 0.4952, 0.4209



45.9527, 0.1504, 0.2579

Square

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



45.9527, 0.4952, 0.4209



45.9527, 0.2526, 0.4697



45.9527, 0.1525, 0.2019



45.9527, 0.3532, 0.2303

Rectangle

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



45.9527, 0.4952, 0.4209



45.9527, 0.3750, 0.5150



45.9527, 0.1525, 0.2019



45.9527, 0.2280, 0.1878

Sweetspot

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



45.9551, 0.4952, 0.4209



79.4805, 0.3555, 0.3617



25.8232, 0.4567, 0.2462



16.4311, 0.3630, 0.3668



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.



45.9551, 0.4952, 0.4209



39.6237, 0.5292, 0.4155



92.3770, 0.4112, 0.4975



19.5635, 0.3281, 0.3415



20.2789, 0.5339, 0.4143



2.1934, 0.5173, 0.4275

Inverse Universe

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



29.1236, 0.1902, 0.1846



22.3688, 0.1766, 0.1536



10.3909, 0.1640, 0.0820



18.8029, 0.2979, 0.3162



11.2479, 0.1748, 0.1493



1.3121, 0.1807, 0.1705

Previews

White Background



This preview shows how the Yxy color 45.9527, 0.4952, 0.4209 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 45.9527, 0.4952, 0.4209 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 45.9527, 0.4952, 0.4209

Background



This preview shows how black text looks on a background with the Yxy color 45.9527, 0.4952, 0.4209.



This preview shows how white text looks on a background with the Yxy color 45.9527, 0.4952, 0.4209.

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

45.9527, 0.4952, 0.4209

Protanopia

46.0397, 0.4254, 0.4675

Deuteranopia

46.1885, 0.4615, 0.4514



Tritanopia

45.9664, 0.4073, 0.3188

Trichromacy



Original Color

45.9527, 0.4952, 0.4209

Protanomaly

45.6926, 0.4509, 0.4503

Deuteranomaly

46.0198, 0.4742, 0.4401

Tritanomaly

45.7517, 0.4466, 0.3632

Monochromacy



Original Color

45.9527, 0.4952, 0.4209

Achromatopsia

42.8690, 0.3127, 0.3290

Achromatomaly

42.8250, 0.3814, 0.3788

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.9527, 0.4952, 0.4209 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, 158, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 158, 51)  
}
```

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, 158, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 158, 51) }
```

Border

The CSS property to change the border of an element to Yxy 45.9527, 0.4952, 0.4209 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, 158, 51) }
```

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

```
.border{ border-color:rgb(255, 158, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 158, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 158, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 158, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 158,  
51) }
```


Background

The CSS property to change the background color of an element to Yxy 45.9527, 0.4952, 0.4209 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 158, 51) }
```

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

```
.background{ background-color: rgb(255,  
158, 51) }
```

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