

Converting Colors

$Y_{xy}(45.4176, 0.5070, 0.4311)$

Have a look what the booklet for
Yxy(45.4176, 0.5070, 0.4311)
contains.

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Color

Yxy(45.4176, 0.5070, 0.4311)

Conversions

Conversions Part 1

Format	Color
Hex	FF9D12
RGB	255, 157, 18
RGB Percent	100%, 62%, 7%
CMY	0.0000, 0.3843, 0.9296
CMYK	0.00, 0.38, 0.93, 0.00
HSL	35°, 100%, 54%
HSV	35°, 93%, 100%
XYZ	53.4139, 45.4176, 6.5213
YIQ	170.4560, 103.0270, -22.4530

Conversions

Conversions Part 2

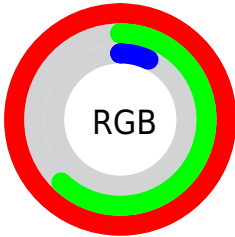
Format	Color
RYB	185, 255, 18
Decimal	16751890
CIELab	73.17, 28.28, 75.48
CIELCh	73, 80.606, 69.464
Yxy	45.4176, 0.5070, 0.4311
Android (android.graphics.Color)	4294941970 (0xFFFF9D12)
YUV	170.4560, -75.1608, 74.1451
Hunter-Lab	67.3926, 23.5382, 41.4375

Details

The Yxy color **45.4176, 0.5070, 0.4311** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle washed orange. A complement of this color would be **19.8315, 0.1734, 0.1401**, and the grayscale version is **40.7771, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.9871, 0.4323, 0.4492**, and **21.3096, 0.5274, 0.4195** is the 20% darker color. If you saturate the color by 10%, you get **42.9344, 0.5179, 0.4270**, and if you desaturate by 10%, it is **49.2716, 0.4887, 0.4330**.

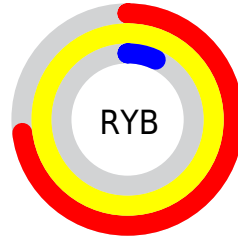
Distribution



Red (100%)

Green (62%)

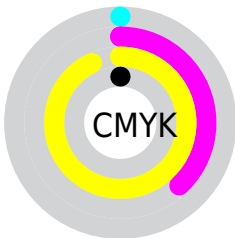
Blue (7%)



Red (73%)

Yellow (100%)

Blue (7%)

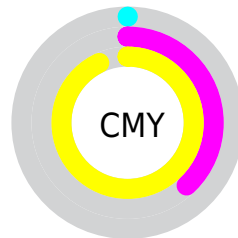


Cyan (0%)

Magenta (38%)

Yellow (93%)

Black (0%)



Cyan (0%)


Magenta (38%)


Yellow (93%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.4176, 0.5070, 0.4311 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 45.4176, 0.5070, 0.4311 by changing the saturation by 10% instead.


 45.4176, 0.5070,
0.4311


 45.4176, 0.5070,
0.4311


368.4622, 0.4187,
0.3955


 31.7865, 0.5238,
0.4340


 83.3467, 0.4785,
0.4226

 21.1985, 0.5421,
0.4346


 108.4135, 0.4667,
0.4181


 13.2692, 0.5658,
0.4342


 138.0610, 0.4562,
0.4137


 7.6141, 0.5805,
0.4195

 172.6735, 0.4469,
0.4095

 3.8491, 0.6020,
0.3980

 212.6355, 0.4387,
0.4056

 1.5895, 0.6359,
0.3641

 258.3313, 0.4313,

 0.3505, 0.7473,

0.4020

0.2527

310.1455, 0.4247,
0.3986

■ 0.0000, 0.0000,
0.0000

■ 45.4176, 0.5070,
0.4311

■ 45.4176, 0.5070,
0.4311

■ 42.9344, 0.5179,
0.4270


■ 49.2716, 0.4887,
0.4330


■ 53.5611, 0.4671,
0.4295


■ 58.3090, 0.4435,
0.4212


■ 63.5379, 0.4193,
0.4093

■ 69.2678, 0.3956,
0.3951

 75.5174, 0.3732,
0.3796

 82.3037, 0.3526,
0.3638

 89.6429, 0.3339,
0.3482

 97.5505, 0.3173,
0.3332

Harmonies

Analogous

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



45.4176, 0.5299, 0.3554



45.4176, 0.5070, 0.4311



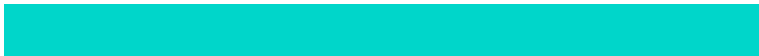
45.4176, 0.4325, 0.5056

Triad

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



45.4176, 0.5070, 0.4311



45.4176, 0.1652, 0.3485



45.4176, 0.2561, 0.1851

Complementary

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



45.4176, 0.5070, 0.4311



19.8315, 0.1734, 0.1401

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.



45.4176, 0.1797, 0.1708



45.4176, 0.5070, 0.4311



45.4176, 0.1351, 0.2415

Square

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



45.4176, 0.5070, 0.4311



45.4176, 0.2366, 0.4796



45.4176, 0.1409, 0.1864



45.4176, 0.3670, 0.2255

Rectangle

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



45.4176, 0.5070, 0.4311



45.4176, 0.3685, 0.5375



45.4176, 0.1409, 0.1864



45.4176, 0.2262, 0.1773

Sweetspot

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



45.4145, 0.5070, 0.4311



78.8134, 0.3627, 0.3718



22.9692, 0.5165, 0.2657



16.2536, 0.3718, 0.3786



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.



45.4145, 0.5070, 0.4311



42.9344, 0.5179, 0.4270



89.2677, 0.4045, 0.5143



19.7578, 0.3280, 0.3429



22.7357, 0.5158, 0.4286



2.4293, 0.5018, 0.4398

Inverse Universe

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



19.8315, 0.1734, 0.1401



17.4118, 0.1686, 0.1268



8.0579, 0.1558, 0.0659



18.6115, 0.2979, 0.3147



9.3755, 0.1694, 0.1298



1.1221, 0.1756, 0.1521

Previews

White Background



This preview shows how the Yxy color 45.4176, 0.5070, 0.4311 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 45.4176, 0.5070, 0.4311 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 45.4176, 0.5070, 0.4311

Background



This preview shows how black text looks on a background with the Yxy color 45.4176, 0.5070, 0.4311.



This preview shows how white text looks on a background with the Yxy color 45.4176, 0.5070, 0.4311.

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

45.4176, 0.5070, 0.4311

Protanopia

45.8188, 0.4361, 0.4833

Deuteranopia

45.6198, 0.4725, 0.4630



Tritanopia

45.2581, 0.4103, 0.3188

Trichromacy



Original Color

45.4176, 0.5070, 0.4311

Protanomaly

45.0965, 0.4630, 0.4636

Deuteranomaly

45.4649, 0.4855, 0.4511

Tritanomaly

44.7992, 0.4602, 0.3736

Monochromacy



Original Color

45.4176, 0.5070, 0.4311

Achromatopsia

40.1978, 0.3127, 0.3290

Achromatomaly

40.5656, 0.3941, 0.3934

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.4176, 0.5070, 0.4311 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, 157, 18)` looks like.

```
.text, #text, p{  
    color:rgb(255, 157, 18)  
}
```

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, 157, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 157, 18) }
```

Border

The CSS property to change the border of an element to Yxy 45.4176, 0.5070, 0.4311 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, 157, 18) }
```

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

```
.border{ border-color:rgb(255, 157, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 157, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 157, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 157, 18);  
box-shadow:4px 4px 4px 4px rgb(255, 157,  
18) }
```


Background

The CSS property to change the background color of an element to Yxy 45.4176, 0.5070, 0.4311 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 157, 18) }
```

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

```
.background{ background-color: rgb(255,  
157, 18) }
```

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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