

Converting Colors

$Y_{xy}(40.8698, 0.5230, 0.4181)$

Have a look what the booklet for
Yxy(40.8698, 0.5230, 0.4181)
contains.

Yxy(40.9486, 0.5227, 0.4183)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(40.9486, 0.5227, 0.4183)

Conversions

Conversions Part 1

Format	Color
Hex	FF8F12
RGB	255, 143, 18
RGB Percent	100%, 56%, 7%
CMY	0.0000, 0.4392, 0.9297
CMYK	0.00, 0.44, 0.93, 0.00
HSL	32°, 100%, 54%
HSV	32°, 93%, 100%
XYZ	51.1686, 40.9486, 5.7757
YIQ	162.2380, 106.8770, -15.1310

Conversions

Conversions Part 2

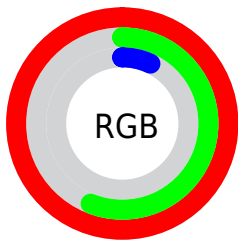
Format	Color
R_{YB}	230, 255, 18
Decimal	16748306
CIE _{Lab}	70.14, 35.46, 73.37
CIE _{LCh}	70, 81.488, 64.209
Yxy	40.9486, 0.5227, 0.4183
Android (android.graphics.Color)	4294938386 (0xFFFF8F12)
YUV	162.2380, -71.1093, 81.3523
Hunter-Lab	63.9911, 30.7479, 39.4424

Details

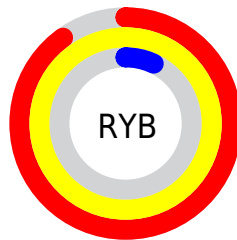
The Yxy color **40.9486, 0.5227, 0.4183** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle washed orange. A complement of this color would be **23.2860, 0.1784, 0.1581**, and the grayscale version is **36.5495, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.2574, 0.4437, 0.4388**, and **18.5585, 0.5480, 0.4031** is the 20% darker color. If you saturate the color by 10%, you get **38.4602, 0.5353, 0.4131**, and if you desaturate by 10%, it is **44.8979, 0.5016, 0.4216**.

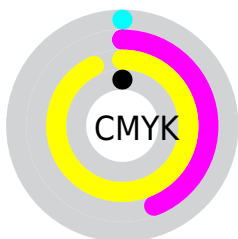
Distribution



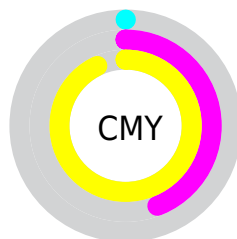
- Red (100%)
- Green (56%)
- Blue (7%)



- Red (90%)
- Yellow (100%)
- Blue (7%)



- Cyan (0%)
- Magenta (44%)
- Yellow (93%)
- Black (0%)





- Cyan (0%)
- Magenta (44%)
- Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 40.9486, 0.5227, 0.4183 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 40.9486, 0.5227, 0.4183 by changing the saturation by 10% instead.


 40.9486, 0.5227,
0.4183

 40.9486, 0.5227,
0.4183


350.1057, 0.4249,
0.3899


 28.2789, 0.5418,
0.4190


 76.6059, 0.4907,
0.4127

 18.5360, 0.5628,
0.4166


 100.3622, 0.4775,
0.4092


 11.3355, 0.5889,
0.4111

 128.5830, 0.4659,
0.4056

 6.2930, 0.6086,
0.3914

 161.6524, 0.4557,
0.4021

 3.0240, 0.6375,
0.3625

 199.9551, 0.4467,
0.3987

 1.1443, 0.6835,
0.3165

 243.8752, 0.4386,

 0.0155, 0.9827,

0.3956

0.0173

293.7973, 0.4314,
0.3926

■ 0.0000, 0.0000,
0.0000

■ 40.9486, 0.5227,
0.4183

■ 40.9486, 0.5227,
0.4183

■ 38.4602, 0.5353,
0.4131

■ 44.8979, 0.5016,
0.4216

■ 49.3620, 0.4770,
0.4194

■ 54.3730, 0.4507,
0.4124

■ 59.9573, 0.4241,
0.4018

■ 66.1386, 0.3986,
0.3889

72.9387, 0.3749,
0.3748

80.3782, 0.3534,
0.3604

88.4763, 0.3342,
0.3463

97.2515, 0.3173,
0.3328

Harmonies

Analogous

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



40.9486, 0.5354, 0.3416



40.9486, 0.5227, 0.4183



40.9486, 0.4512, 0.4984

Triad

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



40.9486, 0.5227, 0.4183



40.9486, 0.1691, 0.3733



40.9486, 0.2367, 0.1757

Complementary

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



40.9486, 0.5227, 0.4183



23.2860, 0.1784, 0.1581

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.



40.9486, 0.1654, 0.1658



40.9486, 0.5227, 0.4183



40.9486, 0.1316, 0.2525

Square

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



40.9486, 0.5227, 0.4183



40.9486, 0.2491, 0.5073



40.9486, 0.1319, 0.1875



40.9486, 0.3472, 0.2127

Rectangle

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



40.9486, 0.5227, 0.4183



40.9486, 0.3867, 0.5400



40.9486, 0.1319, 0.1875



40.9486, 0.2083, 0.1692

Sweetspot

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



40.9508, 0.5227, 0.4183



76.5621, 0.3639, 0.3676



23.3681, 0.4902, 0.2509



15.7134, 0.3734, 0.3739



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.



40.9508, 0.5227, 0.4183



38.4635, 0.5353, 0.4131



92.0735, 0.4155, 0.5056



19.5737, 0.3281, 0.3416



20.3997, 0.5329, 0.4150



2.2051, 0.5164, 0.4281

Inverse Universe

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



23.2860, 0.1784, 0.1581



20.7607, 0.1737, 0.1453



7.8187, 0.1530, 0.0643



18.7928, 0.2979, 0.3161



11.1416, 0.1745, 0.1483



1.3015, 0.1804, 0.1695

Previews

White Background



This preview shows how the Yxy color 40.9486, 0.5227, 0.4183 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 40.9486, 0.5227, 0.4183 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 40.9486, 0.5227, 0.4183

Background



This preview shows how black text looks on a background with the Yxy color 40.9486, 0.5227, 0.4183.



This preview shows how white text looks on a background with the Yxy color 40.9486, 0.5227, 0.4183.

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

40.9486, 0.5227, 0.4183

Protanopia

41.0582, 0.4361, 0.4812

Deuteranopia

40.9461, 0.4721, 0.4634



Tritanopia

40.9127, 0.4314, 0.3200

Trichromacy



Original Color

40.9486, 0.5227, 0.4183

Protanomaly

40.1546, 0.4694, 0.4572

Deuteranomaly

40.7812, 0.4912, 0.4463

Tritanomaly

40.6261, 0.4784, 0.3686

Monochromacy



Original Color

40.9486, 0.5227, 0.4183

Achromatopsia

36.1307, 0.3127, 0.3290

Achromatomaly

36.3042, 0.3994, 0.3887

CSS Examples

Text

The CSS property to change the color of the text to Yxy 40.9486, 0.5227, 0.4183 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, 143, 18)` looks like.

```
.text, #text, p{  
    color:rgb(255, 143, 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, 143, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 143, 18) }
```

Border

The CSS property to change the border of an element to Yxy 40.9486, 0.5227, 0.4183 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, 143, 18) }
```

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

```
.border{ border-color:rgb(255, 143, 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, 143, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 143, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 143, 18);  
box-shadow:4px 4px 4px 4px rgb(255, 143,  
18) }
```


Background

The CSS property to change the background color of an element to Yxy 40.9486, 0.5227, 0.4183 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 143, 18) }
```

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

```
.background{ background-color: rgb(255,  
143, 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](#).

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