

Converting Colors

$Y_{xy}(29.9353, 0.5127, 0.4311)$

Have a look what the booklet for
Yxy(29.9353, 0.5127, 0.4311)
contains.

Yxy(29.9967, 0.5120, 0.4316)	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(29.9967, 0.5120, 0.4316)

Conversions

Conversions Part 1

Format	Color
Hex	D68100
RGB	214, 129, 0
RGB Percent	84%, 51%, 0%
CMY	0.1608, 0.4941, 0.9992
CMYK	0.00, 0.40, 1.00, 0.16
HSL	36°, 100%, 42%
HSV	36°, 100%, 84%
XYZ	35.5846, 29.9967, 3.9199
YIQ	139.7090, 92.0690, -22.0990

Conversions

Conversions Part 2

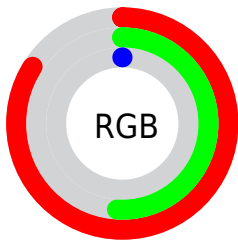
Format	Color
RYB	141, 214, 0
Decimal	14057728
CIELab	61.65, 25.66, 67.84
CIELCh	62, 72.534, 69.280
Yxy	29.9967, 0.5120, 0.4316
Android (android.graphics.Color)	4292247808 (0xFFD68100)
YUV	139.7090, -68.8765, 65.1532
Hunter-Lab	54.7692, 20.1286, 34.0951

Details

The Yxy color **29.9967, 0.5120, 0.4316** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **11.3864, 0.1678, 0.1240**, and the grayscale version is **26.3618, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.1581, 0.4631, 0.4324**, and **12.3643, 0.5339, 0.4143** is the 20% darker color. If you saturate the color by 10%, you get **29.9770, 0.5121, 0.4316**, and if you desaturate by 10%, it is **32.3900, 0.4963, 0.4358**.

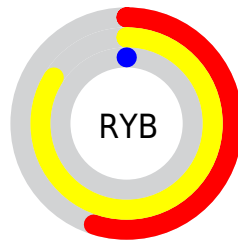
Distribution



Red (84%)

Green (51%)

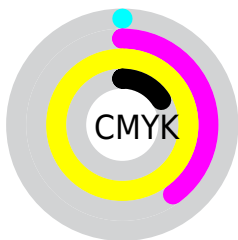
Blue (0%)



Red (55%)

Yellow (84%)

Blue (0%)

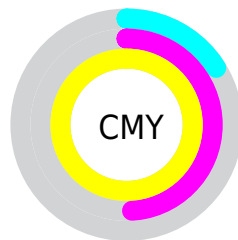


Cyan (0%)

Magenta (40%)

Yellow (100%)

Black (16%)



Cyan (16%)


Magenta (49%)

Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 29.9967, 0.5120, 0.4316 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 29.9967, 0.5120, 0.4316 by changing the saturation by 10% instead.


 29.9967, 0.5120,
0.4316


 29.9967, 0.5120,
0.4316


301.8891, 0.4149,
0.3932


 19.8361, 0.5313,
0.4341


 59.6570, 0.4796,
0.4225


 12.2759, 0.5552,
0.4350


 79.9254, 0.4664,
0.4175


 6.9319, 0.5750,
0.4250


 104.3319, 0.4549,
0.4127

 3.4195, 0.5962,
0.4038

 133.2608, 0.4448,
0.4081

 1.3545, 0.6305,
0.3695

 167.0966, 0.4359,
0.4039

 0.1828, 0.8140,
0.1860


 206.2237, 0.4281,


 0.0000, 0.0000,


0.4000

0.0000


 251.0264, 0.4211,
0.3965

 29.9967, 0.5120,
0.4316


 29.9967, 0.5120,
0.4316


 29.9770, 0.5121,
0.4316

 32.3900, 0.4963,
0.4358

 35.0349, 0.4776,
0.4352

 37.9574, 0.4561,
0.4295

 41.1728, 0.4331,
0.4195

 44.6948, 0.4098,
0.4064

■ 48.5354, 0.3871,
0.3914

■ 52.7061, 0.3658,
0.3755

■ 57.2173, 0.3462,
0.3594

■ 62.0789, 0.3284,
0.3438

Harmonies

Analogous

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



29.9967, 0.5363, 0.3543



29.9967, 0.5120, 0.4316



29.9967, 0.4350, 0.5092

Triad

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



29.9967, 0.5120, 0.4316



29.9967, 0.1614, 0.3495



29.9967, 0.2536, 0.1814

Complementary

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



29.9967, 0.5120, 0.4316



11.3864, 0.1678, 0.1240

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.



29.9967, 0.1759, 0.1670



29.9967, 0.5120, 0.4316



29.9967, 0.1309, 0.2389

Square

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



29.9967, 0.5120, 0.4316



29.9967, 0.2342, 0.4862



29.9967, 0.1367, 0.1827



29.9967, 0.3678, 0.2224

Rectangle

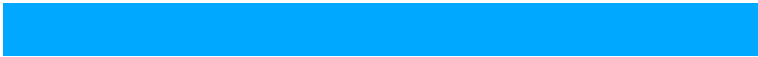
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



29.9967, 0.5120, 0.4316



29.9967, 0.3693, 0.5438



29.9967, 0.1367, 0.1827



29.9967, 0.2231, 0.1735

Sweetspot

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



29.9983, 0.5120, 0.4316



78.1205, 0.3666, 0.3761



14.9691, 0.5399, 0.2749



16.1445, 0.3755, 0.3829



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.



29.9983, 0.5120, 0.4316



44.2443, 0.5133, 0.4307



59.3862, 0.4017, 0.5192



13.6528, 0.3276, 0.3430



18.3261, 0.5104, 0.4329



1.2651, 0.4905, 0.4487

Inverse Universe

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



11.3864, 0.1678, 0.1240



16.6023, 0.1673, 0.1221



5.0256, 0.1531, 0.0617



12.8108, 0.2982, 0.3146



7.0601, 0.1685, 0.1266



0.5852, 0.1781, 0.1612

Previews

White Background



This preview shows how the Yxy color 29.9967, 0.5120, 0.4316 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 29.9967, 0.5120, 0.4316 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 29.9967, 0.5120, 0.4316

Background



This preview shows how black text looks on a background with the Yxy color 29.9967, 0.5120, 0.4316.



This preview shows how white text looks on a background with the Yxy color 29.9967, 0.5120, 0.4316.

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

29.9967, 0.5120, 0.4316

Protanopia

30.2851, 0.4375, 0.4842

Deuteranopia

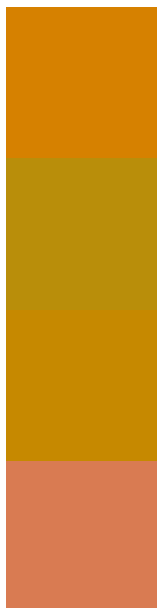
30.1648, 0.4715, 0.4639



Tritanopia

30.0780, 0.4224, 0.3185

Trichromacy



Original Color

29.9967, 0.5120, 0.4316

Protanomaly

29.6822, 0.4656, 0.4648

Deuteranomaly

29.8971, 0.4869, 0.4516

Tritanomaly

29.5268, 0.4743, 0.3763

Monochromacy



Original Color

29.9967, 0.5120, 0.4316

Achromatopsia

26.2251, 0.3127, 0.3290

Achromatomaly

26.5451, 0.4006, 0.4006

CSS Examples

Text

The CSS property to change the color of the text to Yxy 29.9967, 0.5120, 0.4316 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(214, 129, 0)` looks like.

```
.text, #text, p{  
    color:rgb(214, 129, 0)  
}
```

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(214, 129, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 129, 0) }
```

Border

The CSS property to change the border of an element to Yxy 29.9967, 0.5120, 0.4316 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(214, 129, 0) }
```

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

```
.border{ border-color:rgb(214, 129, 0) }
```

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

Here you see how a box with a 4 pixel rgb(214, 129, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 129, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 129, 0);  
box-shadow:4px 4px 4px 4px rgb(214, 129,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 29.9967, 0.5120, 0.4316 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 129, 0) }
```

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

```
.background{ background-color: rgb(214,  
129, 0) }
```

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