

Converting Colors

$Y_{xy}(20.3788, 0.4431, 0.4300)$

Have a look what the booklet for
Yxy(20.3788, 0.4431, 0.4300)
contains.

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Color

Yxy(20.3640, 0.4436, 0.4305)

Conversions

Conversions Part 1

Format	Color
Hex	9D7633
RGB	157, 118, 51
RGB Percent	62%, 46%, 20%
CMY	0.3842, 0.5373, 0.8000
CMYK	0.00, 0.25, 0.68, 0.38
HSL	38°, 51%, 41%
HSV	38°, 68%, 62%
XYZ	20.9837, 20.3640, 5.9555
YIQ	122.0230, 44.7510, -12.5690

Conversions

Conversions Part 2

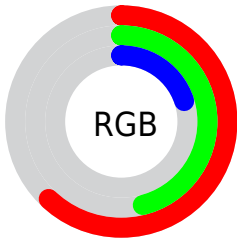
Format	Color
RYB	113, 157, 51
Decimal	10319411
CIELab	52.25, 8.03, 41.75
CIElCh	52, 42.512, 79.115
Yxy	20.3640, 0.4436, 0.4305
Android (android.graphics.Color)	4288509491 (0xFF9D7633)
YUV	122.0230, -35.0143, 30.6748
Hunter-Lab	45.1265, 4.0306, 23.7639

Details

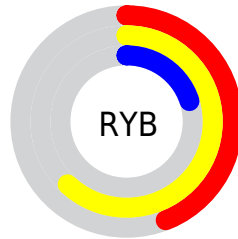
The Yxy color **20.3640, 0.4436, 0.4305** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **10.4541, 0.2024, 0.1904**, and the grayscale version is **19.5763, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.9657, 0.4167, 0.4125**, and **7.2051, 0.4835, 0.4543** is the 20% darker color. If you saturate the color by 10%, you get **18.9294, 0.4640, 0.4384**, and if you desaturate by 10%, it is **21.9308, 0.4220, 0.4189**.

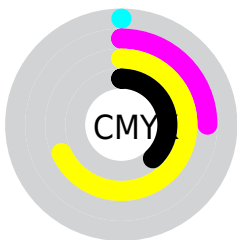
Distribution



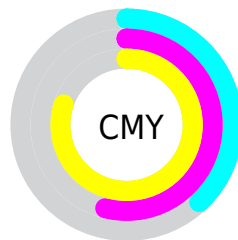
- Red (62%)
- Green (46%)
- Blue (20%)



- Red (44%)
- Yellow (62%)
- Blue (20%)



- Cyan (0%)
- Magenta (25%)
- Yellow (68%)
- Black (38%)





- Cyan (38%)
- Magenta (54%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.3640, 0.4436, 0.4305 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 20.3640, 0.4436, 0.4305 by changing the saturation by 10% instead.


 20.3640, 0.4436,
0.4305


 20.3640, 0.4436,
0.4305


253.8789, 0.3720,
0.3779


 12.6599, 0.4618,
0.4421


 44.0266, 0.4168,
0.4119

 7.1948, 0.4841,
0.4547


 60.7539, 0.4069,
0.4046


 3.5842, 0.5229,
0.4771

 81.2578, 0.3986,
0.3984

 1.4438, 0.5351,
0.4649

 105.9226, 0.3916,
0.3931

 0.2487, 0.6348,
0.3652

 135.1327, 0.3856,
0.3885

 0.0000, 0.0000,
0.0000

 169.2725, 0.3805,

0.3845

208.7265, 0.3760,
0.3810

■ 20.3640, 0.4436,
0.4305

■ 20.3640, 0.4436,
0.4305

■ 18.9294, 0.4640,
0.4384

■ 21.9308, 0.4220,
0.4189

■ 17.6176, 0.4822,
0.4418

■ 23.6325, 0.4002,
0.4047

■ 16.4196, 0.4977,
0.4405

■ 25.4753, 0.3791,
0.3890

■ 16.1370, 0.5015,
0.4400

■ 27.4639, 0.3592,
0.3726

■ 29.6028, 0.3409,
0.3563

■ 31.8963, 0.3242,
0.3404

■ 34.3484, 0.3092,
0.3254

■ 36.9629, 0.2957,
0.3112

■ 39.7435, 0.2838,
0.2981

Harmonies

Analogous

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



20.3640, 0.4678, 0.3753



20.3640, 0.4436, 0.4305



20.3640, 0.3853, 0.4688

Triad

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



20.3640, 0.4436, 0.4305



20.3640, 0.1952, 0.3190



20.3640, 0.2978, 0.2296

Complementary

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



20.3640, 0.4436, 0.4305



10.4541, 0.2024, 0.1904

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.



20.3640, 0.2313, 0.2119



20.3640, 0.4436, 0.4305



20.3640, 0.1785, 0.2530

Square

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



20.3640, 0.4436, 0.4305



20.3640, 0.2420, 0.4030



20.3640, 0.1909, 0.2182



20.3640, 0.3782, 0.2672

Rectangle

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



20.3640, 0.4436, 0.4305



20.3640, 0.3367, 0.4718



20.3640, 0.1909, 0.2182



20.3640, 0.2732, 0.2212

Sweetspot

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



20.3650, 0.4436, 0.4305



51.8766, 0.3459, 0.3609



10.3036, 0.4424, 0.2680



11.1949, 0.3507, 0.3652



78.7412, 0.3127, 0.3290



13.2868, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



20.3650, 0.4436, 0.4305



32.6813, 0.4735, 0.4407



30.3485, 0.3894, 0.4869



7.3095, 0.3269, 0.3431



13.1746, 0.5007, 0.4407



0.3140, 0.4613, 0.4720

Inverse Universe

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



10.4541, 0.2024, 0.1904



13.8203, 0.1825, 0.1553



5.8707, 0.1956, 0.1229



6.8152, 0.2988, 0.3145



4.4834, 0.1669, 0.1208



0.1576, 0.1886, 0.1988

Previews

White Background



This preview shows how the Yxy color 20.3640, 0.4436, 0.4305 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 20.3640, 0.4436, 0.4305 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

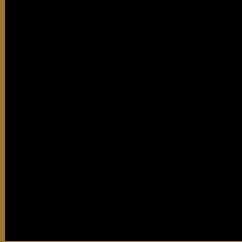
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 20.3640, 0.4436, 0.4305

Background



This preview shows how black text looks on a background with the Yxy color 20.3640, 0.4436, 0.4305.



This preview shows how white text looks on a background with the Yxy color 20.3640, 0.4436, 0.4305.

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

20.3640, 0.4436, 0.4305

Protanopia

20.4132, 0.4105, 0.4500

Deuteranopia

20.4012, 0.4398, 0.4332



Tritanopia

20.3822, 0.3712, 0.3164

Trichromacy



Original Color

20.3640, 0.4436, 0.4305

Protanomaly

20.2780, 0.4238, 0.4423

Deuteranomaly

20.5006, 0.4411, 0.4326

Tritanomaly

20.3164, 0.4012, 0.3617

Monochromacy



Original Color

20.3640, 0.4436, 0.4305

Achromatopsia

19.4618, 0.3127, 0.3290

Achromatomaly

19.6702, 0.3609, 0.3748

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.3640, 0.4436, 0.4305 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(157, 118, 51)` looks like.

```
.text, #text, p{  
    color:rgb(157, 118, 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(157, 118, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 118, 51) }
```

Border

The CSS property to change the border of an element to Yxy 20.3640, 0.4436, 0.4305 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(157, 118, 51) }
```

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

```
.border{ border-color:rgb(157, 118, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 118, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 118, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 118, 51);  
box-shadow:4px 4px 4px 4px rgb(157, 118,  
51) }
```


Background

The CSS property to change the background color of an element to Yxy 20.3640, 0.4436, 0.4305 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 118, 51) }
```

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

```
.background{ background-color: rgb(157,  
118, 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](#).

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