

# Converting Colors

$Y_{xy}(19.1685, 0.3507, 0.4811)$

Have a look what the booklet for  
Yxy(19.1685, 0.3507, 0.4811)  
contains.

<b>Yxy(19.1708, 0.3507, 0.4811)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(19.1708, 0.3507, 0.4811)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	638338
RGB	99, 131, 56
RGB Percent	39%, 51%, 22%
CMY	0.6118, 0.4863, 0.7805
CMYK	0.24, 0.00, 0.57, 0.49
HSL	86°, 40%, 37%
HSV	86°, 57%, 51%
XYZ	13.9746, 19.1708, 6.7024
YIQ	112.8820, 5.0030, -30.1090

# Conversions

## Conversions Part 2

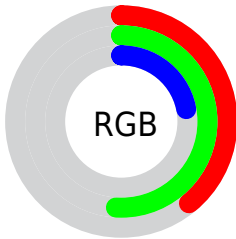
<b>Format</b>	<b>Color</b>
<b>RYB</b>	56, 131, 88
Decimal	6521656
CIELab	50.89, -24.40, 36.35
CIELCh	51, 43.785, 123.875
Yxy	19.1708, 0.3507, 0.4811
Android (android.graphics.Color)	4284711736 (0xFF638338)
YUV	112.8820, -28.0428, -12.1745
Hunter-Lab	43.7845, -19.6512, 21.5732

# Details

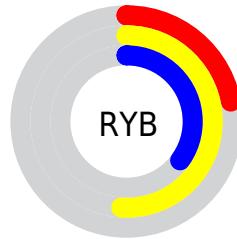
The Yxy color **19.1708, 0.3507, 0.4811** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **6.5397, 0.2489, 0.1707**, and the grayscale version is **16.5597, 0.3127, 0.3290**.

A 20% lighter version of the original color is **41.9763, 0.3459, 0.4448**, and **6.5488, 0.3539, 0.5471** is the 20% darker color. If you saturate the color by 10%, you get **18.7558, 0.3536, 0.5060**, and if you desaturate by 10%, it is **19.6428, 0.3461, 0.4541**.

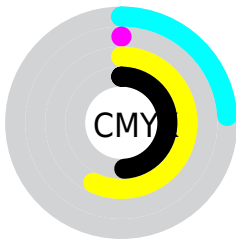
# Distribution



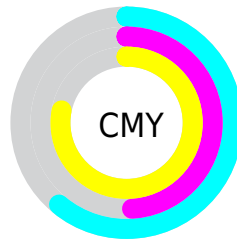
- Red (39%)
- Green (51%)
- Blue (22%)



- Red (22%)
- Yellow (51%)
- Blue (35%)



- Cyan (24%)
- Magenta (0%)
- Yellow (57%)
- Black (49%)




- Cyan (61%)
- Magenta (49%)
- Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.1708, 0.3507, 0.4811 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 19.1708, 0.3507, 0.4811 by changing the saturation by 10% instead.





 19.1708, 0.3507,  
0.4811


 19.1708, 0.3507,  
0.4811


247.3901, 0.3328,  
0.3910


 11.7938, 0.3531,  
0.5088


 42.0225, 0.3452,  
0.4446


 6.6034, 0.3535,  
0.5472


 58.2660, 0.3427,  
0.4320


 3.2153, 0.3657,  
0.6343

 78.2337, 0.3406,  
0.4219

 1.2452, 0.3063,  
0.6937

 102.3101, 0.3386,  
0.4135

 0.0981, 0.0000,  
1.0000

 130.8795, 0.3369,  
0.4065

 0.0000, 0.0000,  
0.0000

 164.3264, 0.3354,

0.4006

203.0351, 0.3341,  
0.3954

■ 19.1708, 0.3507,  
0.4811

■ 19.1708, 0.3507,  
0.4811

■ 18.7558, 0.3536,  
0.5060

■ 19.6428, 0.3461,  
0.4541

■ 18.3923, 0.3544,  
0.5276

■ 20.1721, 0.3401,  
0.4262

■ 18.0774, 0.3531,  
0.5448

■ 20.7622, 0.3332,  
0.3984

■ 17.8045, 0.3498,  
0.5577

■ 21.4154, 0.3258,  
0.3716

■ 17.7342, 0.3489,  
0.5612

■ 22.1341, 0.3182,  
0.3463

■ 22.9203, 0.3107,  
0.3228

■ 23.7760, 0.3033,  
0.3012

■ 24.7032, 0.2963,  
0.2817

■ 25.7037, 0.2896,  
0.2640

# Harmonies

## Analogous

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



19.1708, 0.4222, 0.4582



19.1708, 0.3507, 0.4811



19.1708, 0.2732, 0.4462

# Triad

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



19.1708, 0.3507, 0.4811



19.1708, 0.1756, 0.2274



19.1708, 0.4196, 0.2891

# Complementary

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



19.1708, 0.3507, 0.4811



6.5397, 0.2489, 0.1707

# 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.



19.1708, 0.3380, 0.2424



19.1708, 0.3507, 0.4811



19.1708, 0.2027, 0.2069

# Square

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



19.1708, 0.3507, 0.4811



19.1708, 0.1776, 0.2800



19.1708, 0.2586, 0.2132



19.1708, 0.4695, 0.3459



# Rectangle

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



19.1708, 0.3507, 0.4811



19.1708, 0.2287, 0.3932



19.1708, 0.2586, 0.2132



19.1708, 0.3943, 0.2720

# Sweetspot

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



19.1716, 0.3507, 0.4811



38.3318, 0.3259, 0.3719



11.9666, 0.4383, 0.3885



8.8773, 0.3272, 0.3763



67.3860, 0.3127, 0.3290



9.4630, 0.3127, 0.3290



# Same Dimension

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



19.1716, 0.3507, 0.4811



33.3582, 0.3541, 0.5136



17.5511, 0.3100, 0.5023



5.3267, 0.3197, 0.3509



17.4566, 0.3490, 0.5611



0.0648, 0.3805, 0.5361



# Inverse Universe

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



6.5397, 0.2489, 0.1707



8.3768, 0.2298, 0.1353



8.8068, 0.3084, 0.1949



4.6345, 0.3053, 0.3070



2.4393, 0.1918, 0.0830



0.0126, 0.2412, 0.1102



# Previews

## White Background



This preview shows how the Yxy color 19.1708, 0.3507, 0.4811 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 19.1708, 0.3507, 0.4811 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

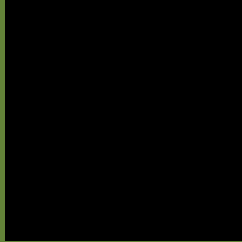
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 19.1708, 0.3507, 0.4811**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.1708, 0.3507, 0.4811.



This preview shows how white text looks on a background with the Yxy color 19.1708, 0.3507, 0.4811.

# 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

19.1708, 0.3507, 0.4811

### Protanopia

19.0001, 0.4080, 0.4477

### Deuteranopia

18.9773, 0.4275, 0.4195



## Tritanopia

19.1106, 0.2857, 0.3098

# Trichromacy



## Original Color

19.1708, 0.3507, 0.4811

## Protanomaly

18.9985, 0.3855, 0.4611

## Deuteranomaly

18.8158, 0.3980, 0.4409

## Tritanomaly

18.9449, 0.3107, 0.3717

# Monochromacy



## Original Color

19.1708, 0.3507, 0.4811

## Achromatopsia

16.5132, 0.3127, 0.3290

## Achromatomaly

17.3938, 0.3301, 0.3872

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.1708, 0.3507, 0.4811 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(99, 131, 56)` looks like.

```
.text, #text, p{  
    color:rgb(99, 131, 56)  
}
```

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(99, 131, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 131, 56) }
```

## Border

The CSS property to change the border of an element to Yxy 19.1708, 0.3507, 0.4811 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(99, 131, 56) }
```

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

```
.border{ border-color:rgb(99, 131, 56) }
```

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

Here you see how a box with a 4 pixel rgb(99, 131, 56) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 131, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 131, 56);  
box-shadow:4px 4px 4px 4px rgb(99, 131,  
56) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.1708, 0.3507, 0.4811 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 131, 56) }
```

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

```
.background{ background-color: rgb(99, 131,  
56) }
```

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