

# Converting Colors

$Y_{xy}(24.4456, 0.2702, 0.4358)$

Have a look what the booklet for  
Yxy(24.4456, 0.2702, 0.4358)  
contains.

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# Color

**$\text{Yxy}(24.4456, 0.2702, 0.4358)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	339966
RGB	51, 153, 102
RGB Percent	20%, 60%, 40%
CMY	0.7998, 0.4000, 0.6000
CMYK	0.67, 0.00, 0.33, 0.40
HSL	150°, 50%, 40%
HSV	150°, 67%, 60%
XYZ	15.1565, 24.4456, 16.4915
YIQ	116.6880, -44.4210, -37.4850

# Conversions

## Conversions Part 2

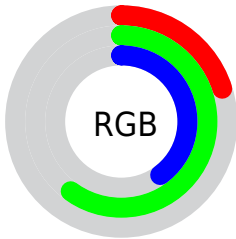
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 119, 153
Decimal	3381606
CIELab	56.53, -41.50, 18.44
CIElCh	57, 45.411, 156.036
Yxy	24.4456, 0.2702, 0.4358
Android (android.graphics.Color)	4281571686 (0xFF339966)
YUV	116.6880, -7.2412, -57.6084
Hunter-Lab	49.4425, -31.8055, 14.8336

# Details

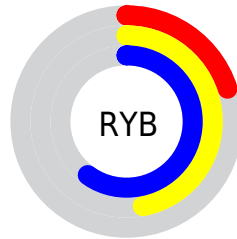
The Yxy color **24.4456, 0.2702, 0.4358** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **10.1036, 0.4132, 0.2496**, and the grayscale version is **17.7248, 0.3127, 0.3290**.

A 20% lighter version of the original color is **50.6629, 0.2806, 0.4107**, and **9.5832, 0.2657, 0.4766** is the 20% darker color. If you saturate the color by 10%, you get **23.9672, 0.2686, 0.4551**, and if you desaturate by 10%, it is **25.0708, 0.2736, 0.4168**.

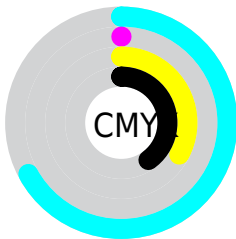
# Distribution



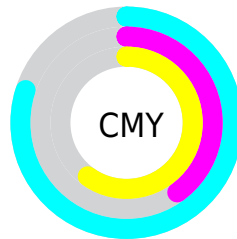
- Red (20%)
- Green (60%)
- Blue (40%)



- Red (20%)
- Yellow (47%)
- Blue (60%)



- Cyan (67%)
- Magenta (0%)
- Yellow (33%)
- Black (40%)




- Cyan (80%)
- Magenta (40%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.4456, 0.2702, 0.4358 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 24.4456, 0.2702, 0.4358 by changing the saturation by 10% instead.




 24.4456, 0.2702,  
0.4358


 24.4456, 0.2702,  
0.4358


275.0656, 0.2954,  
0.3733


 15.6645, 0.2621,  
0.4554


 50.7564, 0.2805,  
0.4104


 9.2871, 0.2504,  
0.4836


 69.0549, 0.2840,  
0.4017


 4.9289, 0.2320,  
0.5272

 91.2946, 0.2869,  
0.3947

 2.2056, 0.1998,  
0.6067

 117.8599, 0.2892,  
0.3889

 0.7230, 0.0000,  
1.0000

 149.1353, 0.2911,  
0.3840

 0.0000, 0.0000,  
0.0000

185.5051, 0.2928,

0.3799

227.3538, 0.2942,  
0.3764

■ 24.4456, 0.2702,  
0.4358

■ 24.4456, 0.2702,  
0.4358

■ 23.9672, 0.2686,  
0.4551

■ 25.0708, 0.2736,  
0.4168

■ 23.6189, 0.2689,  
0.4741

■ 25.8518, 0.2785,  
0.3984

■ 23.3807, 0.2710,  
0.4923

■ 26.8002, 0.2846,  
0.3811

■ 23.3107, 0.2718,  
0.4983

■ 27.9257, 0.2916,  
0.3650

■ 29.2373, 0.2993,  
0.3503

■ 30.7433, 0.3073,  
0.3370

■ 32.4515, 0.3155,  
0.3252

■ 34.3693, 0.3236,  
0.3146

■ 36.5036, 0.3316,  
0.3053

# Harmonies

## Analogous

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



24.4456, 0.3444, 0.4738



24.4456, 0.2702, 0.4358



24.4456, 0.2116, 0.3554

# Triad

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



24.4456, 0.2702, 0.4358



24.4456, 0.2098, 0.2110



24.4456, 0.4644, 0.3502

# Complementary

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



24.4456, 0.2702, 0.4358



10.1036, 0.4132, 0.2496

# 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.



24.4456, 0.4198, 0.2947



24.4456, 0.2702, 0.4358



24.4456, 0.2658, 0.2187

# Square

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



24.4456, 0.2702, 0.4358



24.4456, 0.1815, 0.2291



24.4456, 0.3431, 0.2484



24.4456, 0.4601, 0.4076



# Rectangle

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



24.4456, 0.2702, 0.4358



24.4456, 0.1881, 0.3011



24.4456, 0.3431, 0.2484



24.4456, 0.4547, 0.3311

# Sweetspot

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



24.4466, 0.2702, 0.4358



51.4389, 0.2964, 0.3557



25.9479, 0.3476, 0.5105



11.2252, 0.2944, 0.3595



76.7769, 0.3127, 0.3290



12.5967, 0.3127, 0.3290



# Same Dimension

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



24.4466, 0.2702, 0.4358



42.5871, 0.2685, 0.4645



25.7313, 0.2370, 0.3320



6.9745, 0.3052, 0.3403



19.2729, 0.2714, 0.4971



0.2955, 0.2503, 0.4209



# Inverse Universe

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



10.1036, 0.4132, 0.2496



14.9718, 0.4485, 0.2430



9.3983, 0.5209, 0.3272



6.2716, 0.3209, 0.3179



6.0412, 0.4912, 0.2480



0.0977, 0.4055, 0.2007



# Previews

## White Background



This preview shows how the Yxy color 24.4456, 0.2702, 0.4358 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 24.4456, 0.2702, 0.4358 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 24.4456, 0.2702, 0.4358**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.4456, 0.2702, 0.4358.

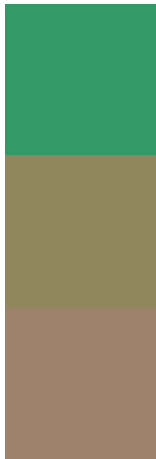


This preview shows how white text looks on a background with the Yxy color 24.4456, 0.2702, 0.4358.

# 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

24.4456, 0.2702, 0.4358

### Protanopia

24.1558, 0.3691, 0.3987

### Deuteranopia

23.9301, 0.3722, 0.3649



## Tritanopia

24.3660, 0.2397, 0.3066

# Trichromacy



## Original Color

24.4456, 0.2702, 0.4358



## Protanomaly

23.5886, 0.3233, 0.4148



## Deuteranomaly

23.0484, 0.3241, 0.3909



## Tritanomaly

24.4199, 0.2503, 0.3503

# Monochromacy



## Original Color

24.4456, 0.2702, 0.4358



## Achromatopsia

17.7888, 0.3127, 0.3290



## Achromatomaly

19.4623, 0.2901, 0.3661

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.4456, 0.2702, 0.4358 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(51, 153, 102)` looks like.

```
.text, #text, p{  
    color:rgb(51, 153, 102)  
}
```

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(51, 153, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 153, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 24.4456, 0.2702, 0.4358 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(51, 153, 102) }
```

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

```
.border{ border-color:rgb(51, 153, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 153, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 153, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 153, 102);  
box-shadow:4px 4px 4px 4px rgb(51, 153,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.4456, 0.2702, 0.4358 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 153, 102) }
```

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

```
.background{ background-color: rgb(51, 153,  
102) }
```

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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