

# Converting Colors

$Y_{xy}(20.3048, 0.2606, 0.3586)$

Have a look what the booklet for  
Yxy(20.3048, 0.2606, 0.3586)  
contains.

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# Color

**$\text{Yxy}(20.2424, 0.2602, 0.3583)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	44887A
RGB	68, 136, 122
RGB Percent	27%, 53%, 48%
CMY	0.7335, 0.4666, 0.5215
CMYK	0.50, 0.00, 0.10, 0.47
HSL	168°, 33%, 40%
HSV	168°, 50%, 53%
XYZ	14.7002, 20.2424, 21.5531
YIQ	114.0720, -36.0340, -18.7700

# Conversions

## Conversions Part 2

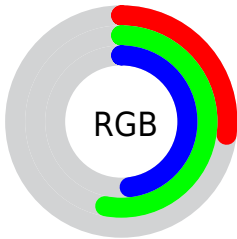
<b>Format</b>	<b>Color</b>
<b>RYB</b>	68, 106, 136
Decimal	4491386
CIELab	52.11, -25.19, 0.87
CIElCh	52, 25.204, 178.017
Yxy	20.2424, 0.2602, 0.3583
Android (android.graphics.Color)	4282681466 (0xFF44887A)
YUV	114.0720, 3.9085, -40.4051
Hunter-Lab	44.9916, -20.4136, 3.0914

# Details

The Yxy color **20.2424, 0.2602, 0.3583** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **9.9728, 0.4178, 0.3033**, and the grayscale version is **16.8443, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.9479, 0.2723, 0.3526**, and **7.1753, 0.2395, 0.3732** is the 20% darker color. If you saturate the color by 10%, you get **19.7416, 0.2533, 0.3653**, and if you desaturate by 10%, it is **20.8602, 0.2686, 0.3516**.

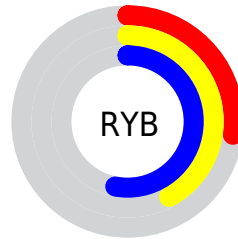
# Distribution



Red (27%)

Green (53%)

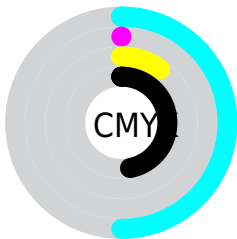
Blue (48%)



Red (27%)

Yellow (42%)

Blue (53%)

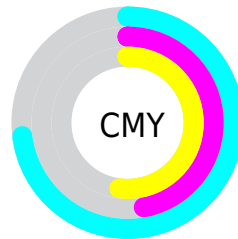


Cyan (50%)

Magenta (0%)

Yellow (10%)

Black (47%)



Cyan (73%)

Magenta (47%)


Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.2424, 0.2602, 0.3583 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 20.2424, 0.2602, 0.3583 by changing the saturation by 10% instead.





 20.2424, 0.2602,  
0.3583


 20.2424, 0.2602,  
0.3583

253.2244, 0.2900,  
0.3416


 12.5714, 0.2513,  
0.3633


 43.8232, 0.2720,  
0.3516

 7.1341, 0.2388,  
0.3705


 60.5018, 0.2762,  
0.3493


 3.5461, 0.2199,  
0.3813

 80.9517, 0.2795,  
0.3474

 1.4230, 0.1857,  
0.4009

 105.5572, 0.2823,  
0.3459

 0.2336, 0.0000,  
0.5471

 134.7029, 0.2847,  
0.3446

 0.0000, 0.0000,  
0.0000

168.7730, 0.2867,

0.3434

208.1521, 0.2885,  
0.3425

■ 20.2424, 0.2602,  
0.3583

■ 20.2424, 0.2602,  
0.3583

■ 19.7416, 0.2533,  
0.3653

■ 20.8602, 0.2686,  
0.3516

■ 19.3475, 0.2481,  
0.3724

■ 21.5999, 0.2784,  
0.3453

■ 19.0518, 0.2447,  
0.3797

■ 22.4688, 0.2891,  
0.3394

■ 18.8441, 0.2432,  
0.3870

■ 23.4732, 0.3006,  
0.3340

■ 18.6938, 0.2429,  
0.3943

■ 24.6187, 0.3127,  
0.3290

■ 25.9107, 0.3250,  
0.3245

■ 27.3545, 0.3374,  
0.3205

■ 28.9549, 0.3497,  
0.3170

■ 30.7164, 0.3618,  
0.3139

# Harmonies

## Analogous

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



20.2424, 0.3011, 0.3975



20.2424, 0.2602, 0.3583



20.2424, 0.2343, 0.3122

# Triad

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



20.2424, 0.2602, 0.3583



20.2424, 0.2742, 0.2562



20.2424, 0.4050, 0.3729

# Complementary

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



20.2424, 0.2602, 0.3583



9.9728, 0.4178, 0.3033

# 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.



20.2424, 0.3978, 0.3361



20.2424, 0.2602, 0.3583



20.2424, 0.3191, 0.2719

# Square

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



20.2424, 0.2602, 0.3583



20.2424, 0.2420, 0.2569



20.2424, 0.3654, 0.3003



20.2424, 0.3856, 0.4021



# Rectangle

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



20.2424, 0.2602, 0.3583



20.2424, 0.2278, 0.2862



20.2424, 0.3654, 0.3003



20.2424, 0.4057, 0.3610

# Sweetspot

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



20.2432, 0.2602, 0.3583



40.3955, 0.2945, 0.3368



19.8523, 0.3201, 0.4746



9.2812, 0.2924, 0.3378



69.2071, 0.3127, 0.3290



10.0482, 0.3127, 0.3290



# Same Dimension

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



20.2432, 0.2602, 0.3583



34.6892, 0.2525, 0.3662



15.6643, 0.2416, 0.2877



5.6713, 0.3017, 0.3335



17.6930, 0.2428, 0.3941



0.1196, 0.2332, 0.3597



# Inverse Universe

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



9.9728, 0.4178, 0.3033



14.4262, 0.4570, 0.2991



12.5072, 0.4271, 0.3653



5.0643, 0.3250, 0.3245



5.0343, 0.6000, 0.3079



0.0352, 0.5042, 0.2551



# Previews

## White Background



This preview shows how the Yxy color 20.2424, 0.2602, 0.3583 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 20.2424, 0.2602, 0.3583 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

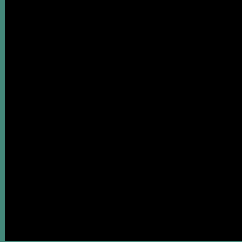
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.2424, 0.2602, 0.3583**

## Background



This preview shows how black text looks on a background with the Yxy color 20.2424, 0.2602, 0.3583.

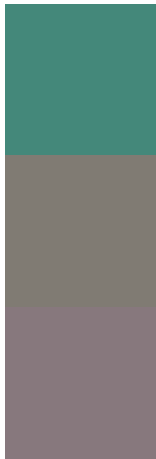


This preview shows how white text looks on a background with the Yxy color 20.2424, 0.2602, 0.3583.

# 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

20.2424, 0.2602, 0.3583

### Protanopia

19.9929, 0.3281, 0.3438

### Deuteranopia

20.0645, 0.3257, 0.3201



## Tritanopia

20.2845, 0.2471, 0.3071

# Trichromacy



**Original Color**

20.2424, 0.2602, 0.3583

**Protanomaly**

19.8105, 0.2980, 0.3487

**Deuteranomaly**

19.7565, 0.2974, 0.3328

**Tritanomaly**

20.2055, 0.2514, 0.3248

# Monochromacy



**Original Color**

20.2424, 0.2602, 0.3583

**Achromatopsia**

16.8269, 0.3127, 0.3290

**Achromatomaly**

17.7448, 0.2887, 0.3393

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.2424, 0.2602, 0.3583 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(68, 136, 122)` looks like.

```
.text, #text, p{  
    color:rgb(68, 136, 122)  
}
```

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(68, 136, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 136, 122) }
```

## Border

The CSS property to change the border of an element to Yxy 20.2424, 0.2602, 0.3583 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(68, 136, 122) }
```

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

```
.border{ border-color:rgb(68, 136, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 136, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 136, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 136, 122);  
box-shadow:4px 4px 4px 4px rgb(68, 136,  
122) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.2424, 0.2602, 0.3583 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 136, 122) }
```

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

```
.background{ background-color: rgb(68, 136,  
122) }
```

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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