

Converting Colors

$Y_{xy}(12.3254, 0.3164, 0.3838)$

Have a look what the booklet for
Yxy(12.3254, 0.3164, 0.3838)
contains.

Yxy(12.2259, 0.3158, 0.3830)	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(12.2259, 0.3158, 0.3830)

Conversions

Conversions Part 1

Format	Color
Hex	556751
RGB	85, 103, 81
RGB Percent	33%, 40%, 32%
CMY	0.6667, 0.5961, 0.6823
CMYK	0.17, 0.00, 0.21, 0.60
HSL	109°, 12%, 36%
HSV	109°, 21%, 40%
XYZ	10.0808, 12.2259, 9.6147
YIQ	95.1100, -3.6660, -10.6580

Conversions

Conversions Part 2

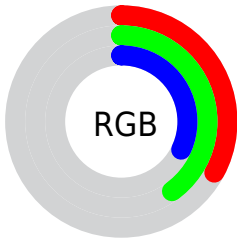
Format	Color
R_{YB}	81, 103, 99
Decimal	5597009
CIE _{Lab}	41.57, -11.48, 10.20
CIE _{LCh}	42, 15.360, 138.379
Yxy	12.2259, 0.3158, 0.3830
Android (android.graphics.Color)	4283787089 (0xFF556751)
YUV	95.1100, -6.9562, -8.8665
Hunter-Lab	34.9656, -9.7271, 8.1725

Details

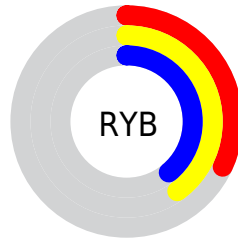
The Yxy color **12.2259, 0.3158, 0.3830** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **9.5202, 0.3084, 0.2786**, and the grayscale version is **11.4888, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.8738, 0.3158, 0.3689**, and **3.3871, 0.3155, 0.4159** is the 20% darker color. If you saturate the color by 10%, you get **11.7117, 0.3169, 0.4122**, and if you desaturate by 10%, it is **12.8117, 0.3145, 0.3562**.

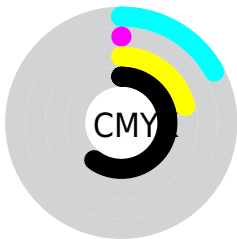
Distribution



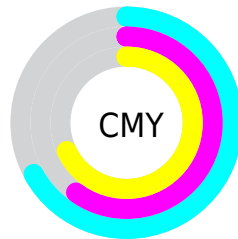
- Red (33%)
- Green (40%)
- Blue (32%)



- Red (32%)
- Yellow (40%)
- Blue (39%)



- Cyan (17%)
- Magenta (0%)
- Yellow (21%)
- Black (60%)



- Cyan (67%)
- Magenta (60%)
- Yellow (68%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.2259, 0.3158, 0.3830 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 12.2259, 0.3158, 0.3830 by changing the saturation by 10% instead.

■ 12.2259, 0.3158,
0.3830

■ 12.2259, 0.3158,
0.3830

■ 205.8951, 0.3143,
0.3493

■ 6.8977, 0.3160,
0.3952

■ 29.9059, 0.3153,
0.3685

■ 3.3982, 0.3159,
0.4143

■ 43.0265, 0.3151,
0.3638

■ 1.3430, 0.3173,
0.4528

■ 59.5133, 0.3150,
0.3601

■ 0.1741, 0.0000,
1.0000

■ 79.7508, 0.3148,
0.3571

■ 0.0000, 0.0000,
0.0000

■ 104.1233, 0.3147,
0.3546

133.0153, 0.3145,

0.3526

166.8111, 0.3144,
0.3508

■ 12.2259, 0.3158,
0.3830

■ 12.2259, 0.3158,
0.3830

■ 11.7117, 0.3169,
0.4122

■ 12.8117, 0.3145,
0.3562

■ 11.2649, 0.3175,
0.4433

■ 13.4701, 0.3129,
0.3321

■ 10.8831, 0.3175,
0.4752

■ 14.2041, 0.3113,
0.3106

■ 10.5632, 0.3169,
0.5066

■ 15.0159, 0.3097,
0.2915

■ 10.3018, 0.3154,
0.5357

■ 15.9079, 0.3080,
0.2748

■ 10.0954, 0.3132,
0.5604

■ 16.8820, 0.3065,
0.2602

■ 9.9396, 0.3103,
0.5794

■ 17.9405, 0.3049,
0.2473

■ 9.8362, 0.3084,
0.5934

■ 19.0851, 0.3035,
0.2360

■ 20.3179, 0.3021,
0.2261

Harmonies

Analogous

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



12.2259, 0.3483, 0.3888



12.2259, 0.3158, 0.3830



12.2259, 0.2836, 0.3600

Triad

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



12.2259, 0.3158, 0.3830



12.2259, 0.2558, 0.2795



12.2259, 0.3680, 0.3263

Complementary

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



12.2259, 0.3158, 0.3830



9.5202, 0.3084, 0.2786

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.



12.2259, 0.3408, 0.3005



12.2259, 0.3158, 0.3830



12.2259, 0.2760, 0.2740

Square

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



12.2259, 0.3158, 0.3830



12.2259, 0.2501, 0.2985



12.2259, 0.3067, 0.2818



12.2259, 0.3796, 0.3539

Rectangle

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



12.2259, 0.3158, 0.3830



12.2259, 0.2665, 0.3389



12.2259, 0.3067, 0.2818



12.2259, 0.3603, 0.3172

Sweetspot

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



12.2264, 0.3158, 0.3830



23.5317, 0.3137, 0.3434



12.3968, 0.3444, 0.3700



5.7288, 0.3137, 0.3444



55.4222, 0.3127, 0.3290



5.9254, 0.3127, 0.3290

Same Dimension

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



12.2264, 0.3158, 0.3830



21.3763, 0.3164, 0.3985



12.1557, 0.3013, 0.3661



3.1642, 0.3141, 0.3501



12.3610, 0.3077, 0.5938



64.1832, 0.3051, 0.5960

Inverse Universe

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



9.5202, 0.3084, 0.2786



15.5217, 0.3070, 0.2653



9.6154, 0.3263, 0.2946



2.8653, 0.3111, 0.3085



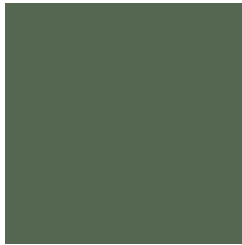
3.6131, 0.2775, 0.1302



18.4993, 0.2748, 0.1288

Previews

White Background



This preview shows how the Yxy color 12.2259, 0.3158, 0.3830 looks on a white 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

Black Background



This preview shows how the Yxy color 12.2259, 0.3158, 0.3830 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

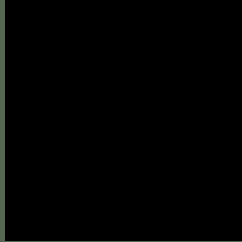
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.2259, 0.3158, 0.3830

Background



This preview shows how black text looks on a background with the Yxy color 12.2259, 0.3158, 0.3830.



This preview shows how white text looks on a background with the Yxy color 12.2259, 0.3158, 0.3830.

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

12.2259, 0.3158, 0.3830

Protanopia

12.2285, 0.3508, 0.3746

Deuteranopia

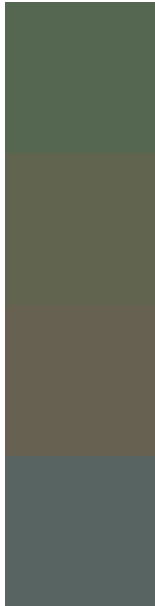
12.1407, 0.3598, 0.3530



Tritanopia

12.1091, 0.2881, 0.3105

Trichromacy



Original Color

12.2259, 0.3158, 0.3830

Protanomaly

12.2202, 0.3374, 0.3783

Deuteranomaly

12.0421, 0.3437, 0.3634

Tritanomaly

12.0709, 0.2982, 0.3337

Monochromacy



Original Color

12.2259, 0.3158, 0.3830

Achromatopsia

11.4435, 0.3127, 0.3290

Achromatomaly

11.6977, 0.3133, 0.3481

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2259, 0.3158, 0.3830 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(85, 103, 81)` looks like.

```
.text, #text, p{  
    color:rgb(85, 103, 81)  
}
```

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(85, 103, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 103, 81) }
```

Border

The CSS property to change the border of an element to Yxy 12.2259, 0.3158, 0.3830 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(85, 103, 81) }
```

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

```
.border{ border-color:rgb(85, 103, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 103, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 103, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 103, 81);  
box-shadow:4px 4px 4px 4px rgb(85, 103,  
81) }
```


Background

The CSS property to change the background color of an element to Yxy 12.2259, 0.3158, 0.3830 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 103, 81) }
```

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

```
.background{ background-color: rgb(85, 103,  
81) }
```

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