

Converting Colors

$Y_{xy}(12.1923, 0.2252, 0.2663)$

Have a look what the booklet for
Yxy(12.1923, 0.2252, 0.2663)
contains.

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Color

$Y_{xy}(12.1923, 0.2252, 0.2663)$

Conversions

Conversions Part 1

Format	Color
Hex	316883
RGB	49, 104, 131
RGB Percent	19%, 41%, 51%
CMY	0.8081, 0.5921, 0.4863
CMYK	0.63, 0.21, 0.00, 0.49
HSL	200°, 46%, 35%
HSV	200°, 63%, 51%
XYZ	10.3106, 12.1923, 23.2812
YIQ	90.6330, -41.4470, -3.2630

Conversions

Conversions Part 2

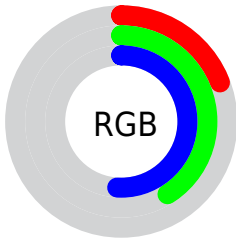
Format	Color
R _Y B	49, 82, 131
Decimal	3238019
CIE Lab	41.52, -9.47, -20.42
CIE LCh	42, 22.511, 245.122
Yxy	12.1923, 0.2252, 0.2663
Android (android.graphics.Color)	4281428099 (0xFF316883)
YUV	90.6330, 19.9009, -36.5121
Hunter-Lab	34.9175, -8.3974, -15.0893

Details

The Yxy color **12.1923, 0.2252, 0.2663** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **10.2024, 0.4643, 0.3793**, and the grayscale version is **10.3316, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.7869, 0.2462, 0.2824**, and **3.5203, 0.1995, 0.2382** is the 20% darker color. If you saturate the color by 10%, you get **11.0684, 0.2147, 0.2543**, and if you desaturate by 10%, it is **13.4561, 0.2372, 0.2780**.

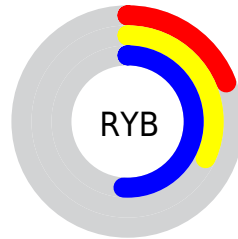
Distribution



Red (19%)

Green (41%)

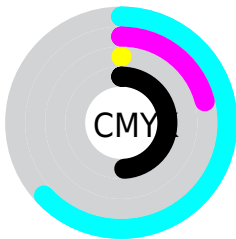
Blue (51%)



Red (19%)

Yellow (32%)

Blue (51%)

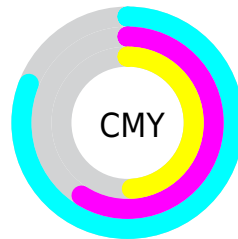


Cyan (63%)

Magenta (21%)

Yellow (0%)

Black (49%)



Cyan (81%)

Magenta (59%)

Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.1923, 0.2252, 0.2663 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 12.1923, 0.2252, 0.2663 by changing the saturation by 10% instead.

12.1923, 0.2252,
0.2663

12.1923, 0.2252,
0.2663

205.6742, 0.2769,
0.3048

6.8748, 0.2089,
0.2533

29.8449, 0.2463,
0.2825

3.3839, 0.1856,
0.2340

42.9487, 0.2535,
0.2878

1.3353, 0.1503,
0.2030

59.4167, 0.2593,
0.2921

0.1683, 0.0000,
0.0870

79.6334, 0.2641,
0.2956

0.0000, 0.0000,
0.0000

103.9831, 0.2681,
0.2985

132.8502, 0.2715,

0.3009

166.6191, 0.2744,
0.3030

■ 12.1923, 0.2252,
0.2663

■ 12.1923, 0.2252,
0.2663

■ 11.0684, 0.2147,
0.2543

■ 13.4561, 0.2372,
0.2780

■ 10.0739, 0.2060,
0.2421

■ 14.8664, 0.2504,
0.2892

■ 9.1985, 0.1992,
0.2300

■ 16.4312, 0.2645,
0.2998

■ 8.6060, 0.1948,
0.2211

■ 18.1571, 0.2791,
0.3097

■ 20.0505, 0.2940,
0.3187

■ 22.1173, 0.3088,
0.3270

■ 24.3629, 0.3234,
0.3344

■ 26.7928, 0.3376,
0.3410

■ 29.4120, 0.3513,
0.3469

Harmonies

Analogous

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



12.1923, 0.2266, 0.3005



12.1923, 0.2252, 0.2663



12.1923, 0.2446, 0.2512

Triad

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



12.1923, 0.2252, 0.2663



12.1923, 0.3784, 0.3071



12.1923, 0.3376, 0.4172

Complementary

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



12.1923, 0.2252, 0.2663



10.2024, 0.4643, 0.3793

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.



12.1923, 0.3814, 0.4111



12.1923, 0.2252, 0.2663



12.1923, 0.4072, 0.3456

Square

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



12.1923, 0.2252, 0.2663



12.1923, 0.3314, 0.2750



12.1923, 0.4077, 0.3833



12.1923, 0.2891, 0.3937

Rectangle

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



12.1923, 0.2252, 0.2663



12.1923, 0.2680, 0.2517



12.1923, 0.4077, 0.3833



12.1923, 0.3533, 0.4183

Sweetspot

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



12.1927, 0.2252, 0.2663



33.5741, 0.2839, 0.3127



17.3896, 0.2841, 0.4641



7.6264, 0.2802, 0.3103



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.



12.1927, 0.2252, 0.2663



19.0688, 0.2109, 0.2493



5.9531, 0.2032, 0.1682



5.0277, 0.2992, 0.3217



8.4767, 0.1948, 0.2212



0.0427, 0.2099, 0.2757

Inverse Universe

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



8.0150, 0.3708, 0.2294



11.9256, 0.3897, 0.2156



17.5254, 0.4130, 0.4481



4.7375, 0.3183, 0.3145



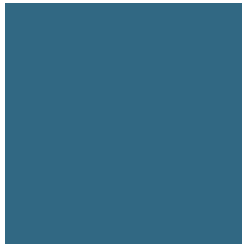
5.4427, 0.4219, 0.2098



0.0202, 0.3675, 0.1798

Previews

White Background



This preview shows how the Yxy color 12.1923, 0.2252, 0.2663 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 12.1923, 0.2252, 0.2663 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

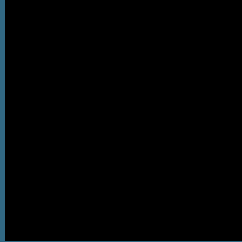
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.1923, 0.2252, 0.2663

Background



This preview shows how black text looks on a background with the Yxy color 12.1923, 0.2252, 0.2663.

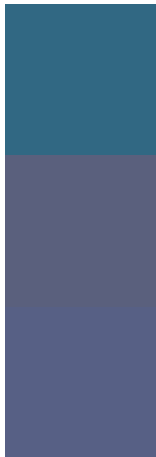


This preview shows how white text looks on a background with the Yxy color 12.1923, 0.2252, 0.2663.

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

12.1923, 0.2252, 0.2663

Protanopia

12.0201, 0.2677, 0.2659

Deuteranopia

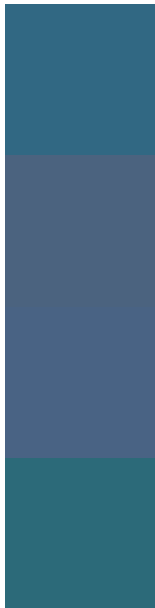
12.0854, 0.2556, 0.2502



Tritanopia

12.2246, 0.2341, 0.3088

Trichromacy



Original Color

12.1923, 0.2252, 0.2663

Protanomaly

11.9518, 0.2491, 0.2659

Deuteranomaly

12.0061, 0.2424, 0.2558

Tritanomaly

12.2240, 0.2307, 0.2924

Monochromacy



Original Color

12.1923, 0.2252, 0.2663

Achromatopsia

10.4616, 0.3127, 0.3290

Achromatomaly

10.9428, 0.2717, 0.3045

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.1923, 0.2252, 0.2663 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(49, 104, 131)` looks like.

```
.text, #text, p{  
    color:rgb(49, 104, 131)  
}
```

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(49, 104, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 104, 131) }
```

Border

The CSS property to change the border of an element to Yxy 12.1923, 0.2252, 0.2663 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(49, 104, 131) }
```

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

```
.border{ border-color:rgb(49, 104, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 104, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 104, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 104, 131);  
box-shadow:4px 4px 4px 4px rgb(49, 104,  
131) }
```


Background

The CSS property to change the background color of an element to Yxy 12.1923, 0.2252, 0.2663 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 104, 131) }
```

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

```
.background{ background-color: rgb(49, 104,  
131) }
```

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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