

Converting Colors

$Yxy(12.3583, 0.2064, 0.2826)$

Have a look what the booklet for
Yxy(12.3583, 0.2064, 0.2826)
contains.

Yxy(12.4958, 0.2119, 0.2827)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.4958, 0.2119, 0.2827)

Conversions

Conversions Part 1

Format	Color
Hex	006D80
RGB	0, 109, 128
RGB Percent	0%, 43%, 50%
CMY	0.9993, 0.5726, 0.4980
CMYK	1.00, 0.15, 0.00, 0.50
HSL	189°, 100%, 25%
HSV	189°, 100%, 50%
XYZ	9.3663, 12.4958, 22.3395
YIQ	78.5750, -71.0630, -17.1990

Conversions

Conversions Part 2

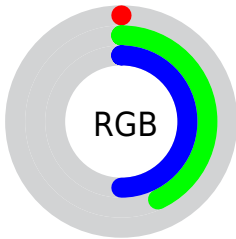
Format	Color
RYB	0, 59, 128
Decimal	28032
CIELab	41.99, -19.02, -17.97
CIELCh	42, 26.170, 223.369
Yxy	12.4958, 0.2119, 0.2827
Android (android.graphics.Color)	4278218112 (0xFF006D80)
YUV	78.5750, 24.3665, -68.9103
Hunter-Lab	35.3494, -14.5653, -12.7245

Details

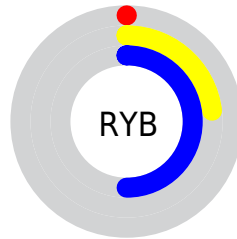
The Yxy color **12.4958, 0.2119, 0.2827** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **5.0614, 0.6217, 0.3443**, and the grayscale version is **7.7067, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.4882, 0.2357, 0.2957**, and **3.9020, 0.2057, 0.2607** is the 20% darker color. If you saturate the color by 10%, you get **12.4893, 0.2119, 0.2826**, and if you desaturate by 10%, it is **12.9909, 0.2157, 0.2878**.

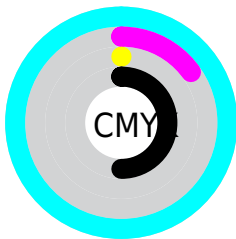
Distribution



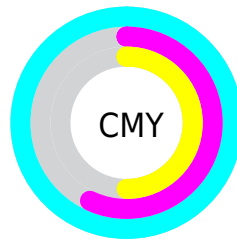
- Red (0%)
- Green (43%)
- Blue (50%)



- Red (0%)
- Yellow (23%)
- Blue (50%)



- Cyan (100%)
- Magenta (15%)
- Yellow (0%)
- Black (50%)



- Cyan (100%)
- Magenta (57%)
- Yellow (50%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.4958, 0.2119, 0.2827 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 12.4958, 0.2119, 0.2827 by changing the saturation by 10% instead.

12.4958, 0.2119,
0.2827

12.4958, 0.2119,
0.2827

207.6605, 0.2709,
0.3122

7.0823, 0.1936,
0.2721

30.3949, 0.2358,
0.2955

3.5136, 0.1679,
0.2558

43.6494, 0.2440,
0.2996

1.4054, 0.1295,
0.2282

60.2862, 0.2507,
0.3028

0.2207, 0.0000,
0.1212

80.6899, 0.2561,
0.3054

0.0000, 0.0000,
0.0000

105.2447, 0.2607,
0.3076

134.3352, 0.2646,

0.3093

168.3457, 0.2680,
0.3109

■ 12.4958, 0.2119,
0.2827

■ 12.4958, 0.2119,
0.2827

■ 12.4893, 0.2119,
0.2826

■ 12.9909, 0.2157,
0.2878

■ 13.5414, 0.2206,
0.2929

■ 14.1760, 0.2273,
0.2980

■ 14.9037, 0.2358,
0.3030

■ 15.7321, 0.2459,
0.3079

■ 16.6681, 0.2574,
0.3127

■ 17.7181, 0.2702,
0.3172

■ 18.8876, 0.2838,
0.3215

■ 20.1821, 0.2982,
0.3254

Harmonies

Analogous

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



12.4958, 0.2305, 0.3347



12.4958, 0.2119, 0.2827



12.4958, 0.2170, 0.2501

Triad

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



12.4958, 0.2119, 0.2827



12.4958, 0.3499, 0.2764



12.4958, 0.3784, 0.4285

Complementary

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



12.4958, 0.2119, 0.2827



5.0614, 0.6217, 0.3443

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.



12.4958, 0.4160, 0.4006



12.4958, 0.2119, 0.2827



12.4958, 0.4006, 0.3150

Square

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



12.4958, 0.2119, 0.2827



12.4958, 0.2922, 0.2496



12.4958, 0.4252, 0.3590



12.4958, 0.3250, 0.4277

Rectangle

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



12.4958, 0.2119, 0.2827



12.4958, 0.2331, 0.2408



12.4958, 0.4252, 0.3590



12.4958, 0.3934, 0.4216

Sweetspot

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



12.4962, 0.2119, 0.2827



31.0347, 0.2691, 0.3169



15.4802, 0.2962, 0.5859



7.1084, 0.2644, 0.3153



65.5931, 0.3127, 0.3290



8.8982, 0.3127, 0.3290

Same Dimension

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



12.4962, 0.2119, 0.2827



21.8261, 0.2115, 0.2815



3.5964, 0.1674, 0.1225



4.7814, 0.2993, 0.3257



12.3860, 0.2119, 0.2826



0.0000, 0.0000, 0.0000

Inverse Universe

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



5.6970, 0.3610, 0.1763



10.0063, 0.3621, 0.1768



10.4939, 0.4991, 0.4418



4.4018, 0.3158, 0.3108



5.6449, 0.3610, 0.1762



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the Yxy color 12.4958, 0.2119, 0.2827 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 12.4958, 0.2119, 0.2827 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

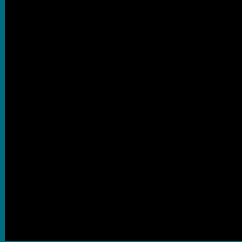
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.4958, 0.2119, 0.2827

Background



This preview shows how black text looks on a background with the Yxy color 12.4958, 0.2119, 0.2827.



This preview shows how white text looks on a background with the Yxy color 12.4958, 0.2119, 0.2827.

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

12.4958, 0.2119, 0.2827

Protanopia

12.4711, 0.2789, 0.2811

Deuteranopia

12.4122, 0.2627, 0.2570



Tritanopia

12.4838, 0.2184, 0.3061

Trichromacy



Original Color

12.4958, 0.2119, 0.2827

Protanomaly

11.8935, 0.2393, 0.2793

Deuteranomaly

11.8186, 0.2312, 0.2621

Tritanomaly

12.5570, 0.2164, 0.2990

Monochromacy



Original Color

12.4958, 0.2119, 0.2827

Achromatopsia

7.8187, 0.3127, 0.3290

Achromatomaly

8.8535, 0.2491, 0.3093

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4958, 0.2119, 0.2827 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(0, 109, 128)` looks like.

```
.text, #text, p{  
    color:rgb(0, 109, 128)  
}
```

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(0, 109, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 109, 128) }
```

Border

The CSS property to change the border of an element to Yxy 12.4958, 0.2119, 0.2827 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(0, 109, 128) }
```

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

```
.border{ border-color:rgb(0, 109, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 109, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 109, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 109, 128);  
box-shadow:4px 4px 4px 4px rgb(0, 109,  
128) }
```


Background

The CSS property to change the background color of an element to Yxy 12.4958, 0.2119, 0.2827 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 109, 128) }
```

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

```
.background{ background-color: rgb(0, 109,  
128) }
```

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