

Converting Colors

$Y_{xy}(16.8676, 0.2329, 0.2704)$

Have a look what the booklet for
Yxy(16.8676, 0.2329, 0.2704)
contains.

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Color

Yxy(16.8318, 0.2332, 0.2703)

Conversions

Conversions Part 1

Format	Color
Hex	447895
RGB	68, 120, 149
RGB Percent	27%, 47%, 58%
CMY	0.7336, 0.5294, 0.4157
CMYK	0.54, 0.19, 0.00, 0.42
HSL	201°, 37%, 43%
HSV	201°, 54%, 58%
XYZ	14.5216, 16.8318, 30.9175
YIQ	107.7580, -40.3010, -2.0050

Conversions

Conversions Part 2

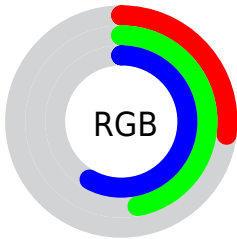
Format	Color
R _Y B	68, 100, 149
Decimal	4487317
CIE Lab	48.05, -8.77, -21.03
CIE LCh	48, 22.784, 247.364
Yxy	16.8318, 0.2332, 0.2703
Android (android.graphics.Color)	4282677397 (0xFF447895)
YUV	107.7580, 20.3323, -34.8678
Hunter-Lab	41.0266, -8.6156, -15.9621

Details

The Yxy color **16.8318, 0.2332, 0.2703** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **15.3412, 0.4368, 0.3785**, and the grayscale version is **14.8716, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.9544, 0.2512, 0.2842**, and **5.5230, 0.2021, 0.2461** is the 20% darker color. If you saturate the color by 10%, you get **15.1173, 0.2210, 0.2572**, and if you desaturate by 10%, it is **18.7550, 0.2467, 0.2829**.

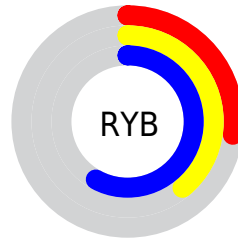
Distribution



Red (27%)

Green (47%)

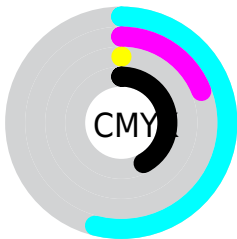
Blue (58%)



Red (27%)

Yellow (39%)

Blue (58%)

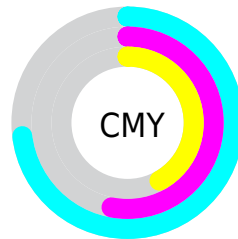


Cyan (54%)

Magenta (19%)

Yellow (0%)

Black (42%)



Cyan (73%)

Magenta (53%)

Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 16.8318, 0.2332, 0.2703 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 16.8318, 0.2332, 0.2703 by changing the saturation by 10% instead.

■ 16.8318, 0.2332,
0.2703

■ 16.8318, 0.2332,
0.2703

■ 234.2012, 0.2783,
0.3047

■ 10.1146, 0.2199,
0.2596

■ 38.0364, 0.2510,
0.2842

■ 5.4750, 0.2016,
0.2444

■ 53.2925, 0.2573,
0.2890

■ 2.5286, 0.1749,
0.2213

■ 72.1639, 0.2624,
0.2929

■ 0.8909, 0.1306,
0.1839

■ 95.0347, 0.2666,
0.2961

■ 0.0000, 0.0000,
0.0000

■ 122.2895, 0.2702,
0.2988

154.3125, 0.2733,

0.3010

191.4883, 0.2760,
0.3030

■ 16.8318, 0.2332,
0.2703

■ 16.8318, 0.2332,
0.2703

■ 15.1173, 0.2210,
0.2572

■ 18.7550, 0.2467,
0.2829

■ 13.5980, 0.2104,
0.2438

■ 20.8955, 0.2610,
0.2947

■ 12.2612, 0.2017,
0.2303

■ 23.2638, 0.2759,
0.3058

■ 11.0907, 0.1950,
0.2170

■ 25.8687, 0.2911,
0.3160

■ 10.4848, 0.1916,
0.2096

■ 28.7188, 0.3061,
0.3252

■ 31.8220, 0.3209,
0.3335

■ 35.1858, 0.3353,
0.3410

■ 38.8174, 0.3491,
0.3476

■ 42.7237, 0.3622,
0.3534

Harmonies

Analogous

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



16.8318, 0.2331, 0.3006



16.8318, 0.2332, 0.2703



16.8318, 0.2525, 0.2574

Triad

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



16.8318, 0.2332, 0.2703



16.8318, 0.3751, 0.3117



16.8318, 0.3324, 0.4080

Complementary

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



16.8318, 0.2332, 0.2703



15.3412, 0.4368, 0.3785

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.



16.8318, 0.3729, 0.4051



16.8318, 0.2332, 0.2703



16.8318, 0.3995, 0.3474

Square

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



16.8318, 0.2332, 0.2703



16.8318, 0.3333, 0.2814



16.8318, 0.3982, 0.3814



16.8318, 0.2884, 0.3848

Rectangle

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



16.8318, 0.2332, 0.2703



16.8318, 0.2749, 0.2586



16.8318, 0.3982, 0.3814



16.8318, 0.3469, 0.4099

Sweetspot

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



16.8324, 0.2332, 0.2703



45.3989, 0.2882, 0.3141



23.5720, 0.2840, 0.4389



9.8675, 0.2854, 0.3123



74.8414, 0.3127, 0.3290



11.9280, 0.3127, 0.3290

Same Dimension

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



16.8324, 0.2332, 0.2703



26.5263, 0.2189, 0.2547



9.1475, 0.2159, 0.1849



6.2168, 0.2989, 0.3209



8.8816, 0.1918, 0.2105



0.1646, 0.2083, 0.2700

Inverse Universe

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



11.8722, 0.3654, 0.2431



17.7187, 0.3824, 0.2284



24.6524, 0.3989, 0.4398



5.8743, 0.3188, 0.3149



6.0900, 0.4336, 0.2162



0.0802, 0.3728, 0.1827

Previews

White Background



This preview shows how the Yxy color 16.8318, 0.2332, 0.2703 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 16.8318, 0.2332, 0.2703 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

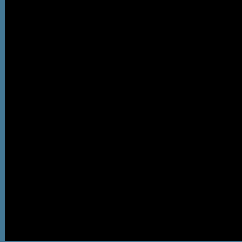
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

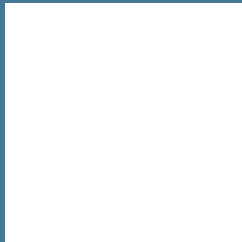
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 16.8318, 0.2332, 0.2703

Background



This preview shows how black text looks on a background with the Yxy color 16.8318, 0.2332, 0.2703.

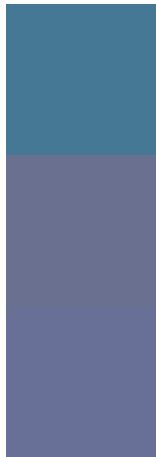


This preview shows how white text looks on a background with the Yxy color 16.8318, 0.2332, 0.2703.

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

16.8318, 0.2332, 0.2703

Protanopia

16.6357, 0.2708, 0.2698

Deuteranopia

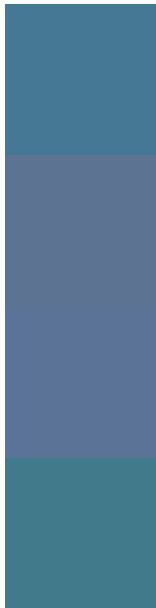
16.7658, 0.2610, 0.2561



Tritanopia

16.8835, 0.2422, 0.3073

Trichromacy



Original Color

16.8318, 0.2332, 0.2703

Protanomaly

16.5811, 0.2550, 0.2701

Deuteranomaly

16.6876, 0.2497, 0.2613

Tritanomaly

16.8731, 0.2386, 0.2931

Monochromacy



Original Color

16.8318, 0.2332, 0.2703

Achromatopsia

14.9960, 0.3127, 0.3290

Achromatomaly

15.3456, 0.2766, 0.3057

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.8318, 0.2332, 0.2703 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, 120, 149)` looks like.

```
.text, #text, p{  
    color:rgb(68, 120, 149)  
}
```

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, 120, 149) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 120, 149) }
```

Border

The CSS property to change the border of an element to Yxy 16.8318, 0.2332, 0.2703 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, 120, 149) }
```

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

```
.border{ border-color:rgb(68, 120, 149) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 120, 149)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 120, 149); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 120, 149);  
box-shadow:4px 4px 4px 4px rgb(68, 120,  
149) }
```


Background

The CSS property to change the background color of an element to Yxy 16.8318, 0.2332, 0.2703 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 120, 149) }
```

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

```
.background{ background-color: rgb(68, 120,  
149) }
```

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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