

# Converting Colors

$Y_{xy}(18.9275, 0.2567, 0.3163)$

Have a look what the booklet for  
Yxy(18.9275, 0.2567, 0.3163)  
contains.

<b>Yxy(18.8650, 0.2573, 0.3166)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(18.8650, 0.2573, 0.3166)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	508086
RGB	80, 128, 134
RGB Percent	31%, 50%, 53%
CMY	0.6862, 0.4980, 0.4745
CMYK	0.40, 0.04, 0.00, 0.47
HSL	187°, 25%, 42%
HSV	187°, 40%, 53%
XYZ	15.3315, 18.8650, 25.3897
YIQ	114.3320, -30.5340, -8.3100

# Conversions

## Conversions Part 2

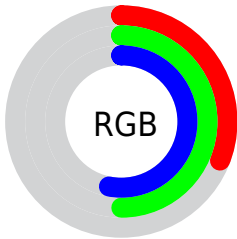
Format	Color
<a href="#">RYB</a>	<a href="#">80, 105, 134</a>
Decimal	<a href="#">5275782</a>
CIELab	<a href="#">50.53, -14.58, -8.40</a>
CIELCh	<a href="#">51, 16.829, 209.928</a>
Yxy	<a href="#">18.8650, 0.2573, 0.3166</a>
Android (android.graphics.Color)	<a href="#">4283465862 (0xFF508086)</a>
YUV	<a href="#">114.3320, 9.6963, -30.1092</a>
Hunter-Lab	<a href="#">43.4339, -13.0013, -4.2549</a>

# Details

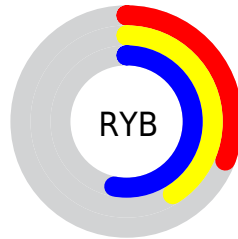
The Yxy color **18.8650, 0.2573, 0.3166** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **12.3072, 0.4046, 0.3408**, and the grayscale version is **16.9105, 0.3127, 0.3290**.

A 20% lighter version of the original color is **41.5411, 0.2698, 0.3202**, and **6.4933, 0.2360, 0.3125** is the 20% darker color. If you saturate the color by 10%, you get **17.9532, 0.2462, 0.3131**, and if you desaturate by 10%, it is **19.9003, 0.2697, 0.3200**.

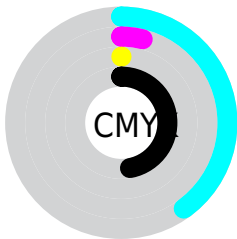
# Distribution



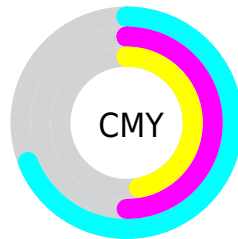
- Red (31%)
- Green (50%)
- Blue (53%)



- Red (31%)
- Yellow (41%)
- Blue (53%)



- Cyan (40%)
- Magenta (4%)
- Yellow (0%)
- Black (47%)



- Cyan (69%)
- Magenta (50%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.8650, 0.2573, 0.3166 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 18.8650, 0.2573, 0.3166 by changing the saturation by 10% instead.



■ 18.8650, 0.2573,  
0.3166

■ 18.8650, 0.2573,  
0.3166

■ 245.7025, 0.2887,  
0.3243

■ 11.5728, 0.2480,  
0.3140

■ 41.5059, 0.2697,  
0.3198

■ 6.4535, 0.2349,  
0.3100

■ 57.6233, 0.2741,  
0.3209

■ 3.1227, 0.2155,  
0.3035

■ 77.4512, 0.2776,  
0.3218

■ 1.1961, 0.1830,  
0.2912

■ 101.3741, 0.2806,  
0.3225

■ 0.0586, 0.0000,  
0.0825

■ 129.7762, 0.2831,  
0.3230

■ 0.0000, 0.0000,  
0.0000

163.0421, 0.2852,

0.3235

201.5560, 0.2870,  
0.3239

■ 18.8650, 0.2573,  
0.3166

■ 18.8650, 0.2573,  
0.3166

■ 17.9532, 0.2462,  
0.3131

■ 19.9003, 0.2697,  
0.3200

■ 17.1558, 0.2366,  
0.3094

■ 21.0634, 0.2832,  
0.3232

■ 16.4657, 0.2287,  
0.3057


■ 22.3609, 0.2975,  
0.3262


■ 15.8744, 0.2226,  
0.3019

■ 23.7984, 0.3123,  
0.3289


■ 15.3714, 0.2183,  
0.2982

■ 25.3811, 0.3273,  
0.3314

 14.9383, 0.2152,  
0.2946

 27.1139, 0.3424,  
0.3337

 29.0017, 0.3573,  
0.3357

 31.0488, 0.3719,  
0.3374

 33.2596, 0.3860,  
0.3390

# Harmonies

## Analogous

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



18.8650, 0.2752, 0.3471



18.8650, 0.2573, 0.3166



18.8650, 0.2536, 0.2918

# Triad

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



18.8650, 0.2573, 0.3166



18.8650, 0.3197, 0.2899



18.8650, 0.3619, 0.3806

# Complementary

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



18.8650, 0.2573, 0.3166



12.3072, 0.4046, 0.3408

# 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.



18.8650, 0.3755, 0.3621



18.8650, 0.2573, 0.3166



18.8650, 0.3506, 0.3108

# Square

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



18.8650, 0.2573, 0.3166



18.8650, 0.2882, 0.2781



18.8650, 0.3714, 0.3367



18.8650, 0.3352, 0.3856



# Rectangle

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



18.8650, 0.2573, 0.3166



18.8650, 0.2593, 0.2814



18.8650, 0.3714, 0.3367



18.8650, 0.3682, 0.3757

# Sweetspot

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



18.8657, 0.2573, 0.3166



38.9232, 0.2946, 0.3256



19.4206, 0.3023, 0.4351



8.7137, 0.2931, 0.3253



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.



18.8657, 0.2573, 0.3166



31.8157, 0.2475, 0.3135



12.8540, 0.2487, 0.2593



5.1928, 0.2992, 0.3265



14.0074, 0.2152, 0.2947



0.0548, 0.2202, 0.3128



# Inverse Universe

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



12.3667, 0.3261, 0.2430



18.9560, 0.3296, 0.2255



17.3272, 0.3849, 0.3895



4.7542, 0.3153, 0.3099



6.0010, 0.3502, 0.1703

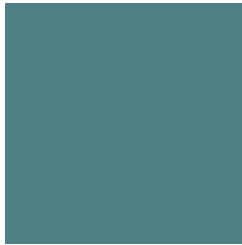


0.0214, 0.3343, 0.1615



# Previews

## White Background



This preview shows how the Yxy color 18.8650, 0.2573, 0.3166 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 18.8650, 0.2573, 0.3166 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

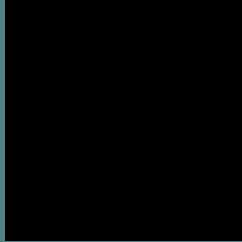
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 18.8650, 0.2573, 0.3166**

## Background



This preview shows how black text looks on a background with the Yxy color 18.8650, 0.2573, 0.3166.



This preview shows how white text looks on a background with the Yxy color 18.8650, 0.2573, 0.3166.

# 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

18.8650, 0.2573, 0.3166

### Protanopia

18.6741, 0.3024, 0.3120

### Deuteranopia

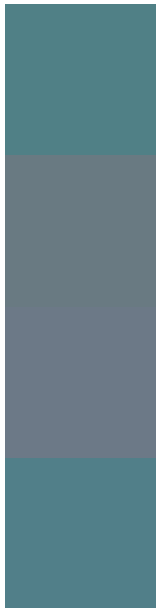
18.7852, 0.2996, 0.2944



## Tritanopia

18.7631, 0.2545, 0.3067

# Trichromacy



## Original Color

18.8650, 0.2573, 0.3166

## Protanomaly

18.5340, 0.2842, 0.3133

## Deuteranomaly

18.6122, 0.2824, 0.3021

## Tritanomaly

18.7342, 0.2553, 0.3086

# Monochromacy



## Original Color

18.8650, 0.2573, 0.3166

## Achromatopsia

16.8269, 0.3127, 0.3290

## Achromatomaly

17.3989, 0.2899, 0.3249

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.8650, 0.2573, 0.3166 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(80, 128, 134)` looks like.

```
.text, #text, p{  
    color:rgb(80, 128, 134)  
}
```

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(80, 128, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 128, 134) }
```

## Border

The CSS property to change the border of an element to Yxy 18.8650, 0.2573, 0.3166 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(80, 128, 134) }
```

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

```
.border{ border-color:rgb(80, 128, 134) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 128, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 128, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 128, 134);  
box-shadow:4px 4px 4px 4px rgb(80, 128,  
134) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.8650, 0.2573, 0.3166 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 128, 134) }
```

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

```
.background{ background-color: rgb(80, 128,  
134) }
```

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