

# Converting Colors

$Y_{xy}(19.9266, 0.2961, 0.2074)$

Have a look what the booklet for  
Yxy(19.9266, 0.2961, 0.2074)  
contains.

<b>Yxy(19.8258, 0.2958, 0.2068)</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(19.8258, 0.2958, 0.2068)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A560B8
RGB	165, 96, 184
RGB Percent	65%, 38%, 72%
CMY	0.3528, 0.6236, 0.2784
CMYK	0.10, 0.48, 0.00, 0.28
HSL	287°, 38%, 55%
HSV	287°, 48%, 72%
XYZ	28.3582, 19.8258, 47.6855
YIQ	126.6630, 12.8760, 41.9960

# Conversions

## Conversions Part 2

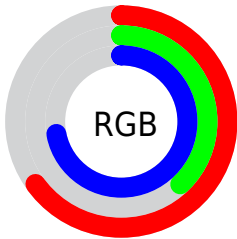
Format	Color
R <sub>Y</sub> B	165, 96, 184
Decimal	10838200
CIE Lab	51.64, 42.55, -35.26
CIE LCh	52, 55.266, 320.354
Yxy	19.8258, 0.2958, 0.2068
Android (android.graphics.Color)	4289028280 (0xFFA560B8)
YUV	126.6630, 28.2671, 33.6215
Hunter-Lab	44.5262, 35.7637, -32.3285

# Details

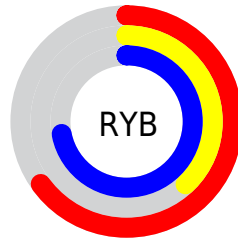
The Yxy color **19.8258, 0.2958, 0.2068** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **38.7715, 0.3200, 0.4714**, and the grayscale version is **21.0001, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.3158, 0.3015, 0.2307**, and **6.9452, 0.2865, 0.1721** is the 20% darker color. If you saturate the color by 10%, you get **16.4348, 0.2907, 0.1833**, and if you desaturate by 10%, it is **24.0174, 0.3004, 0.2322**.

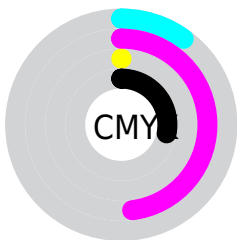
# Distribution



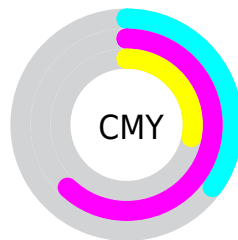
- Red (65%)
- Green (38%)
- Blue (72%)



- Red (65%)
- Yellow (38%)
- Blue (72%)



- Cyan (10%)
- Magenta (48%)
- Yellow (0%)
- Black (28%)




- Cyan (35%)
- Magenta (62%)
- Yellow (28%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.8258, 0.2958, 0.2068 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 19.8258, 0.2958, 0.2068 by changing the saturation by 10% instead.





 19.8258, 0.2958,  
0.2068


 19.8258, 0.2958,  
0.2068


250.9705, 0.3074,  
0.2695


 12.2685, 0.2917,  
0.1910


 43.1249, 0.3008,  
0.2298


 6.9268, 0.2858,  
0.1709


 59.6355, 0.3025,  
0.2384

 3.4164, 0.2765,  
0.1446


 79.8994, 0.3037,  
0.2456

 1.3528, 0.2608,  
0.1098

 104.3008, 0.3048,  
0.2518

 0.1815, 0.2390,  
0.0342

133.2242, 0.3056,  
0.2571

 0.0000, 0.0933,  
0.0000

167.0541, 0.3063,

 0.0000, 0.0000,

0.2618

0.0000

206.1747, 0.3069,  
0.2659

■ 19.8258, 0.2958,  
0.2068

■ 19.8258, 0.2958,  
0.2068

■ 16.4348, 0.2907,  
0.1833

■ 24.0174, 0.3004,  
0.2322

■ 13.7861, 0.2852,  
0.1628

■ 29.0574, 0.3045,  
0.2584

■ 11.8176, 0.2795,  
0.1461


■ 34.9930, 0.3079,  
0.2846


■ 10.4554, 0.2738,  
0.1339

■ 41.8670, 0.3108,  
0.3100


■ 9.5861, 0.2681,  
0.1259


■ 49.7193, 0.3132,  
0.3341

 9.4221, 0.2669,  
0.1244

 58.5878, 0.3151,  
0.3566

 68.5081, 0.3166,  
0.3774

 79.5143, 0.3177,  
0.3964

 87.3616, 0.3192,  
0.4075

# Harmonies

## Analogous

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



19.8258, 0.2119, 0.1841



19.8258, 0.2958, 0.2068



19.8258, 0.4014, 0.2526

# Triad

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



19.8258, 0.2958, 0.2068



19.8258, 0.4727, 0.4528



19.8258, 0.1626, 0.3078

# Complementary

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



19.8258, 0.2958, 0.2068



38.7715, 0.3200, 0.4714

# 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.



19.8258, 0.2165, 0.4236



19.8258, 0.2958, 0.2068



19.8258, 0.3949, 0.5098

# Square

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



19.8258, 0.2958, 0.2068



19.8258, 0.5114, 0.3820



19.8258, 0.3018, 0.5097



19.8258, 0.1463, 0.2265



# Rectangle

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



19.8258, 0.2958, 0.2068



19.8258, 0.4640, 0.2923



19.8258, 0.3018, 0.5097



19.8258, 0.1763, 0.3444

# Sweetspot

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



19.8266, 0.2958, 0.2068



67.7186, 0.3090, 0.2938



18.2205, 0.2289, 0.2127



14.0425, 0.3084, 0.2883



93.3107, 0.3127, 0.3290



18.7317, 0.3127, 0.3290



# Same Dimension

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



19.8266, 0.2958, 0.2068



29.7268, 0.2906, 0.1831



21.0594, 0.3490, 0.2432



9.0624, 0.3104, 0.3062



6.5244, 0.2676, 0.1248



0.2547, 0.2821, 0.1328



# Inverse Universe

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



19.7906, 0.4133, 0.3025



29.8676, 0.4481, 0.2982



38.1500, 0.2899, 0.4353



9.0431, 0.3255, 0.3241



7.1359, 0.6003, 0.3081

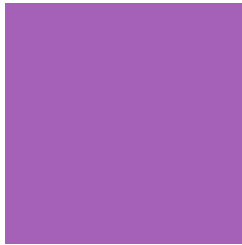


0.2608, 0.5287, 0.2686



# Previews

## White Background



This preview shows how the Yxy color 19.8258, 0.2958, 0.2068 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

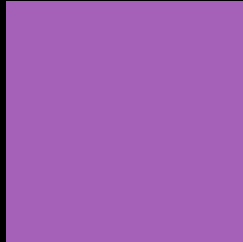
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 19.8258, 0.2958, 0.2068 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

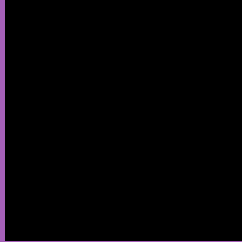
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 19.8258, 0.2958, 0.2068**

## Background



This preview shows how black text looks on a background with the Yxy color 19.8258, 0.2958, 0.2068.



This preview shows how white text looks on a background with the Yxy color 19.8258, 0.2958, 0.2068.

# 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

19.8258, 0.2958, 0.2068

### Protanopia

20.2057, 0.2129, 0.1955

### Deuteranopia

19.9404, 0.2384, 0.2323



## Tritanopia

19.7929, 0.3619, 0.3143

# Trichromacy



**Original Color**

19.8258, 0.2958, 0.2068

**Protanomaly**

19.3786, 0.2354, 0.1967

**Deuteranomaly**

19.4315, 0.2556, 0.2201

**Tritanomaly**

19.6622, 0.3364, 0.2710

# Monochromacy



**Original Color**

19.8258, 0.2958, 0.2068

**Achromatopsia**

21.2231, 0.3127, 0.3290

**Achromatomaly**

20.2916, 0.3067, 0.2757

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.8258, 0.2958, 0.2068 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(165, 96, 184)` looks like.

```
.text, #text, p{  
    color:rgb(165, 96, 184)  
}
```

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(165, 96, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 96, 184) }
```

## Border

The CSS property to change the border of an element to Yxy 19.8258, 0.2958, 0.2068 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(165, 96, 184) }
```

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

```
.border{ border-color:rgb(165, 96, 184) }
```

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

Here you see how a box with a 4 pixel rgb(165, 96, 184) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 96, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 96, 184);  
box-shadow:4px 4px 4px 4px rgb(165, 96,  
184) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.8258, 0.2958, 0.2068 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 96, 184) }
```

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

```
.background{ background-color: rgb(165, 96,  
184) }
```

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