

# Converting Colors

$Y_{xy}(20.1608, 0.2615, 0.1678)$

Have a look what the booklet for  
Yxy(20.1608, 0.2615, 0.1678)  
contains.

<b>Yxy(20.1608, 0.2615, 0.1678)</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(20.1608, 0.2615, 0.1678)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A35ADA
RGB	163, 90, 218
RGB Percent	64%, 35%, 85%
CMY	0.3607, 0.6471, 0.1451
CMYK	0.25, 0.59, 0.00, 0.15
HSL	274°, 63%, 60%
HSV	274°, 59%, 85%
XYZ	31.4186, 20.1608, 68.5683
YIQ	126.4190, 2.4200, 55.2840

# Conversions

## Conversions Part 2

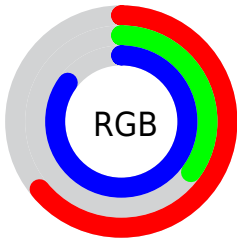
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	163, 90, 218
Decimal	10705626
CIE <sub>Lab</sub>	52.02, 52.53, -54.16
CIE <sub>LCh</sub>	52, 75.449, 314.129
Yxy	20.1608, 0.2615, 0.1678
Android (android.graphics.Color)	4288895706 (0xFFA35ADA)
YUV	126.4190, 45.1494, 32.0815
Hunter-Lab	44.9008, 46.3263, -59.1117

# Details

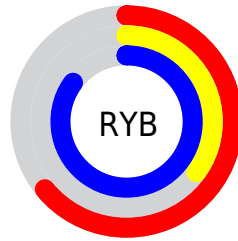
The Yxy color **20.1608, 0.2615, 0.1678** is a light color, and the websafe version is hex **9966CC**. The color can be described as light muted purple. A complement of this color would be **56.9008, 0.3382, 0.4986**, and the grayscale version is **20.8568, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.2371, 0.2890, 0.2116**, and **7.0576, 0.2402, 0.1280** is the 20% darker color. If you saturate the color by 10%, you get **16.0559, 0.2499, 0.1433**, and if you desaturate by 10%, it is **25.4186, 0.2726, 0.1951**.

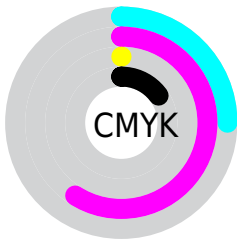
# Distribution



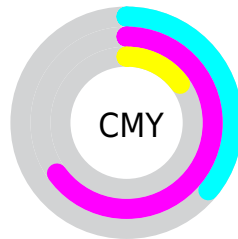
- Red (64%)
- Green (35%)
- Blue (85%)



- Red (64%)
- Yellow (35%)
- Blue (85%)



- Cyan (25%)
- Magenta (59%)
- Yellow (0%)
- Black (15%)




- Cyan (36%)
- Magenta (65%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.1608, 0.2615, 0.1678 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 20.1608, 0.2615, 0.1678 by changing the saturation by 10% instead.





 20.1608, 0.2615,  
0.1678


 20.1608, 0.2615,  
0.1678


252.7843, 0.2923,  
0.2461

 12.5120, 0.2524,  
0.1499


 43.6866, 0.2738,  
0.1952


 7.0934, 0.2401,  
0.1282


 60.3324, 0.2781,  
0.2059

 3.5206, 0.2229,  
0.1018


 80.7460, 0.2816,  
0.2150

 1.4092, 0.1978,  
0.0704

 105.3117, 0.2845,  
0.2229

 0.2235, 0.1625,  
0.0216

134.4140, 0.2869,  
0.2298

 0.0000, 0.0938,  
0.0000

168.4373, 0.2890,

 0.0000, 0.0000,

0.2359

0.0000

207.7659, 0.2908,  
0.2413

■ 20.1608, 0.2615,  
0.1678

■ 20.1608, 0.2615,  
0.1678

■ 16.0559, 0.2499,  
0.1433

■ 25.4186, 0.2726,  
0.1951

■ 13.0025, 0.2384,  
0.1230

■ 31.9139, 0.2829,  
0.2237

■ 10.8852, 0.2273,  
0.1077

■ 39.7262, 0.2922,  
0.2526

■ 9.5255, 0.2170,  
0.0974

■ 48.9272, 0.3004,  
0.2807

■ 9.3750, 0.2158,  
0.0962

■ 59.5834, 0.3074,  
0.3073

■ 71.7571, 0.3134,  
0.3321

■ 85.5068, 0.3184,  
0.3547

■ 94.7471, 0.3235,  
0.3664

■ 96.4097, 0.3295,  
0.3657

# Harmonies

## Analogous

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



20.1608, 0.1677, 0.1470



20.1608, 0.2615, 0.1678



20.1608, 0.3998, 0.2166

# Triad

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



20.1608, 0.2615, 0.1678



20.1608, 0.5237, 0.4493



20.1608, 0.1301, 0.3238

# Complementary

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



20.1608, 0.2615, 0.1678



56.9008, 0.3382, 0.4986

# 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.



20.1608, 0.2010, 0.4965



20.1608, 0.2615, 0.1678



20.1608, 0.4251, 0.5434

# Square

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



20.1608, 0.2615, 0.1678



20.1608, 0.5719, 0.3618



20.1608, 0.3100, 0.5898



20.1608, 0.1069, 0.2074



# Rectangle

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



20.1608, 0.2615, 0.1678



20.1608, 0.4924, 0.2610



20.1608, 0.3100, 0.5898



20.1608, 0.1480, 0.3791

# Sweetspot

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



20.1616, 0.2615, 0.1678



70.5808, 0.3008, 0.2822



27.6279, 0.2167, 0.2211



14.2301, 0.2986, 0.2741



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



20.1616, 0.2615, 0.1678



21.9625, 0.2477, 0.1391



26.8436, 0.3282, 0.1996



12.9819, 0.3070, 0.3055



5.6810, 0.2172, 0.0970



0.4185, 0.2336, 0.1060



# Inverse Universe

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



24.2603, 0.4122, 0.2654



28.8035, 0.4447, 0.2581



53.2104, 0.3001, 0.5067



13.1439, 0.3225, 0.3190



9.4308, 0.5246, 0.2663

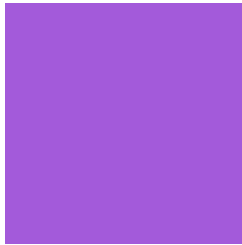


0.6280, 0.4833, 0.2436



# Previews

## White Background



This preview shows how the Yxy color 20.1608, 0.2615, 0.1678 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

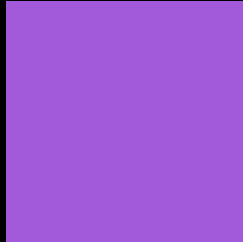
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 20.1608, 0.2615, 0.1678 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

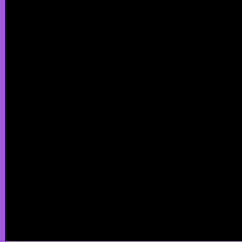
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.1608, 0.2615, 0.1678**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.1608, 0.2615, 0.1678.



This preview shows how white text looks on a background with the Yxy color 20.1608, 0.2615, 0.1678.

# 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

20.1608, 0.2615, 0.1678

### Protanopia

20.6658, 0.1787, 0.1502

### Deuteranopia

20.3945, 0.1990, 0.1925



## Tritanopia

20.1745, 0.3419, 0.3138

# Trichromacy



## Original Color

20.1608, 0.2615, 0.1678



## Protanomaly

18.9493, 0.1932, 0.1496



## Deuteranomaly

19.0960, 0.2132, 0.1764



## Tritanomaly

19.7909, 0.3091, 0.2481

# Monochromacy



## Original Color

20.1608, 0.2615, 0.1678



## Achromatopsia

20.8637, 0.3127, 0.3290



## Achromatomaly

19.8024, 0.2923, 0.2538

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.1608, 0.2615, 0.1678 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(163, 90, 218)` looks like.

```
.text, #text, p{  
    color:rgb(163, 90, 218)  
}
```

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(163, 90, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 90, 218) }
```

## Border

The CSS property to change the border of an element to Yxy 20.1608, 0.2615, 0.1678 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(163, 90, 218) }
```

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

```
.border{ border-color:rgb(163, 90, 218) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 90, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 90, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 90, 218);  
box-shadow:4px 4px 4px 4px rgb(163, 90,  
218) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.1608, 0.2615, 0.1678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 90, 218) }
```

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

```
.background{ background-color: rgb(163, 90,  
218) }
```

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