

# Converting Colors

$Y_{xy}(23.9293, 0.2660, 0.1563)$

Have a look what the booklet for  
Yxy(23.9293, 0.2660, 0.1563)  
contains.

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**Color**

**Yxy(23.8475, 0.2661, 0.1564)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD55F4
RGB	189, 85, 244
RGB Percent	74%, 33%, 96%
CMY	0.2586, 0.6668, 0.0431
CMYK	0.23, 0.65, 0.00, 0.04
HSL	279°, 88%, 65%
HSV	279°, 65%, 96%
XYZ	40.5743, 23.8475, 88.0558
YIQ	134.2220, 10.9450, 71.4970

# Conversions

## Conversions Part 2

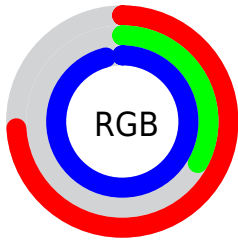
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	189, 85, 244
Decimal	12408308
CIE <sub>Lab</sub>	55.93, 66.42, -62.31
CIE <sub>LCh</sub>	56, 91.069, 316.827
Yxy	23.8475, 0.2661, 0.1564
Android (android.graphics.Color)	4290598388 (0xFFBD55F4)
YUV	134.2220, 54.1206, 48.0403
Hunter-Lab	48.8339, 62.8498, -72.7262

# Details

The Yxy color **23.8475, 0.2661, 0.1564** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **70.9268, 0.3302, 0.5229**, and the grayscale version is **23.7174, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.4095, 0.3127, 0.2178**, and **8.9870, 0.2470, 0.1192** is the 20% darker color. If you saturate the color by 10%, you get **19.6011, 0.2566, 0.1361**, and if you desaturate by 10%, it is **29.4820, 0.2754, 0.1804**.

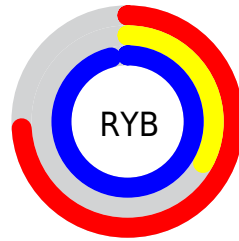
# Distribution



Red (74%)

Green (33%)

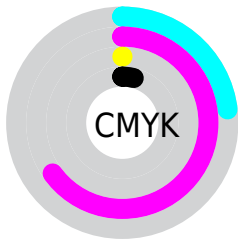
Blue (96%)



Red (74%)

Yellow (33%)

Blue (96%)

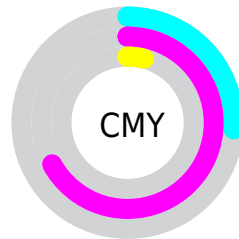


Cyan (23%)

Magenta (65%)

Yellow (0%)

Black (4%)



Cyan (26%)

Magenta (67%)


Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.8475, 0.2661, 0.1564 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 23.8475, 0.2661, 0.1564 by changing the saturation by 10% instead.





 23.8475, 0.2661,  
0.1564

 23.8475, 0.2661,  
0.1564


272.0486, 0.2944,  
0.2358


 15.2205, 0.2580,  
0.1394


 49.7812, 0.2773,  
0.1833

 8.9743, 0.2472,  
0.1193

 67.8568, 0.2812,  
0.1940

 4.7244, 0.2324,  
0.0956


 89.8507, 0.2844,  
0.2032

 2.0865, 0.2115,  
0.0683

 116.1472, 0.2871,  
0.2114

 0.6570, 0.1813,  
0.0376

147.1309, 0.2894,  
0.2186

 0.0000, 0.1384,  
0.0000

183.1861, 0.2913,

 0.0000, 0.0354,

0.2250


0.0000


224.6972, 0.2929,  
0.2307


 0.0000, 0.0000,  
0.0000


 23.8475, 0.2661,  
0.1564

 23.8475, 0.2661,  
0.1564


 19.6011, 0.2566,  
0.1361


 29.4820, 0.2754,  
0.1804


 16.5961, 0.2472,  
0.1206


 36.6256, 0.2841,  
0.2071

 14.6567, 0.2383,  
0.1101

 45.3886, 0.2920,  
0.2349

 13.9751, 0.2341,  
0.1063

 55.8703, 0.2991,  
0.2630

 68.1619, 0.3052,  
0.2903

82.3479, 0.3104,  
0.3162

98.0206, 0.3147,  
0.3397

99.3119, 0.3191,  
0.3395

# Harmonies

## Analogous

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



23.8475, 0.1600, 0.1317



23.8475, 0.2661, 0.1564



23.8475, 0.4252, 0.2104

# Triad

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



23.8475, 0.2661, 0.1564



23.8475, 0.5302, 0.4593



23.8475, 0.1072, 0.3036

# Complementary

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



23.8475, 0.2661, 0.1564



70.9268, 0.3302, 0.5229

# 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.



23.8475, 0.1752, 0.5064



23.8475, 0.2661, 0.1564



23.8475, 0.4148, 0.5697

# Square

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



23.8475, 0.2661, 0.1564



23.8475, 0.5975, 0.3629



23.8475, 0.2891, 0.6268



23.8475, 0.0894, 0.1843



# Rectangle

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



23.8475, 0.2661, 0.1564



23.8475, 0.5284, 0.2580



23.8475, 0.2891, 0.6268



23.8475, 0.1234, 0.3653

# Sweetspot

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



23.8484, 0.2661, 0.1564



68.4758, 0.3023, 0.2772



27.4005, 0.2020, 0.1873



13.8532, 0.3006, 0.2694



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.



23.8484, 0.2661, 0.1564



20.5326, 0.2538, 0.1310



30.8995, 0.3443, 0.1989



16.4651, 0.3082, 0.3053



7.6773, 0.2355, 0.1071



0.7316, 0.2463, 0.1130



# Inverse Universe

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



27.6151, 0.4500, 0.2745



25.5741, 0.4944, 0.2728



67.7337, 0.2942, 0.5131



16.5770, 0.3239, 0.3209



10.8316, 0.5596, 0.2856



0.9706, 0.5247, 0.2664



# Previews

## White Background



This preview shows how the Yxy color 23.8475, 0.2661, 0.1564 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

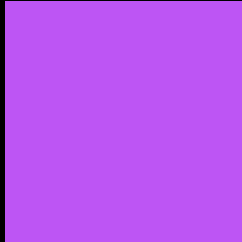
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 23.8475, 0.2661, 0.1564 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

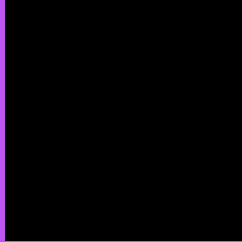
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 23.8475, 0.2661, 0.1564**

## Background



This preview shows how black text looks on a background with the Yxy color 23.8475, 0.2661, 0.1564.



This preview shows how white text looks on a background with the Yxy color 23.8475, 0.2661, 0.1564.

# 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

23.8475, 0.2661, 0.1564

### Protanopia

24.2420, 0.1871, 0.1615

### Deuteranopia

24.2526, 0.1918, 0.1859



## Tritanopia

23.6758, 0.3661, 0.3155

# Trichromacy



## Original Color

23.8475, 0.2661, 0.1564



## Protanomaly

22.2509, 0.2037, 0.1524



## Deuteranomaly

21.6623, 0.2050, 0.1635



## Tritanomaly

22.9206, 0.3253, 0.2407

# Monochromacy



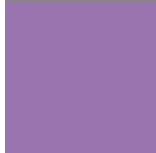
## Original Color

23.8475, 0.2661, 0.1564



## Achromatopsia

23.8398, 0.3127, 0.3290



## Achromatomaly

22.4168, 0.2940, 0.2422

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.8475, 0.2661, 0.1564 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(189, 85, 244)` looks like.

```
.text, #text, p{  
    color:rgb(189, 85, 244)  
}
```

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(189, 85, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 85, 244) }
```

## Border

The CSS property to change the border of an element to Yxy 23.8475, 0.2661, 0.1564 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(189, 85, 244) }
```

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

```
.border{ border-color:rgb(189, 85, 244) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 85, 244)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 85, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 85, 244);  
box-shadow:4px 4px 4px 4px rgb(189, 85,  
244) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.8475, 0.2661, 0.1564 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 85, 244) }
```

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

```
.background{ background-color: rgb(189, 85,  
244) }
```

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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