

# Converting Colors

$Y_{xy}(21.1845, 0.2609, 0.1558)$

Have a look what the booklet for  
Yxy(21.1845, 0.2609, 0.1558)  
contains.

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# Color

**Yxy(21.1837, 0.2609, 0.1558)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AF53E9
RGB	175, 83, 233
RGB Percent	69%, 33%, 91%
CMY	0.3139, 0.6744, 0.0863
CMYK	0.25, 0.64, 0.00, 0.09
HSL	277°, 77%, 62%
HSV	277°, 64%, 91%
XYZ	35.4739, 21.1837, 79.3097
YIQ	127.6080, 6.6820, 66.1540

# Conversions

## Conversions Part 2

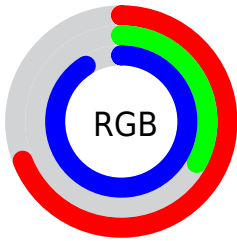
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	175, 83, 233
Decimal	11490281
CIE <sub>Lab</sub>	53.15, 61.93, -60.73
CIE <sub>LCh</sub>	53, 86.737, 315.563
Yxy	21.1837, 0.2609, 0.1558
Android (android.graphics.Color)	4289680361 (0xFFAF53E9)
YUV	127.6080, 51.9583, 41.5628
Hunter-Lab	46.0258, 57.0319, -69.9481

# Details

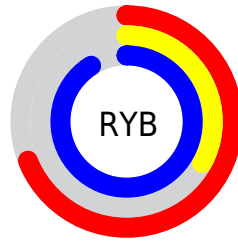
The Yxy color **21.1837, 0.2609, 0.1558** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **64.5718, 0.3343, 0.5177**, and the grayscale version is **21.2623, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.8894, 0.2999, 0.2106**, and **7.5989, 0.2405, 0.1170** is the 20% darker color. If you saturate the color by 10%, you get **17.1882, 0.2503, 0.1344**, and if you desaturate by 10%, it is **26.4480, 0.2712, 0.1809**.

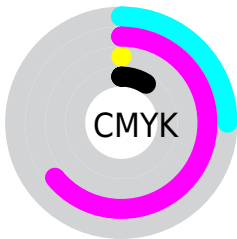
# Distribution



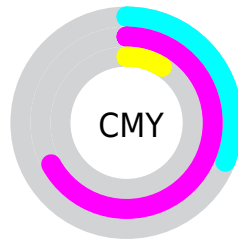
- Red (69%)
- Green (33%)
- Blue (91%)



- Red (69%)
- Yellow (33%)
- Blue (91%)



- Cyan (25%)
- Magenta (64%)
- Yellow (0%)
- Black (9%)




- Cyan (31%)
- Magenta (67%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.1837, 0.2609, 0.1558 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 21.1837, 0.2609, 0.1558 by changing the saturation by 10% instead.





 21.1837, 0.2609,  
0.1558


 21.1837, 0.2609,  
0.1558


258.2531, 0.2922,  
0.2372


 13.2583, 0.2518,  
0.1380


 45.3931, 0.2733,  
0.1837

 7.6067, 0.2397,  
0.1168


 62.4459, 0.2777,  
0.1947


 3.8443, 0.2229,  
0.0918


 83.3099, 0.2813,  
0.2042

 1.5869, 0.1991,  
0.0629

 108.3697, 0.2842,  
0.2125

 0.3487, 0.1655,  
0.0252

 138.0095, 0.2867,  
0.2198

 0.0000, 0.1149,  
0.0000

172.6137, 0.2888,

 0.0000, 0.0000,

0.2263

0.0000

212.5668, 0.2907,  
0.2321

■ 21.1837, 0.2609,  
0.1558

■ 21.1837, 0.2609,  
0.1558

■ 17.1882, 0.2503,  
0.1344

■ 26.4480, 0.2712,  
0.1809

■ 14.3323, 0.2399,  
0.1176

■ 33.0881, 0.2810,  
0.2083


■ 12.4622, 0.2301,  
0.1060

■ 41.2023, 0.2899,  
0.2367


■ 11.7077, 0.2248,  
0.1012


■ 50.8789, 0.2978,  
0.2651

■ 62.1990, 0.3046,  
0.2925

 75.2382, 0.3105,  
0.3183

 90.0672, 0.3154,  
0.3423

 97.1955, 0.3205,  
0.3506

 98.6632, 0.3256,  
0.3503

# Harmonies

## Analogous

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



21.1837, 0.1578, 0.1325



21.1837, 0.2609, 0.1558



21.1837, 0.4173, 0.2085

# Triad

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



21.1837, 0.2609, 0.1558



21.1837, 0.5336, 0.4550



21.1837, 0.1103, 0.3112

# Complementary

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



21.1837, 0.2609, 0.1558



64.5718, 0.3343, 0.5177

# 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.



21.1837, 0.1806, 0.5130



21.1837, 0.2609, 0.1558



21.1837, 0.4204, 0.5645

# Square

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



21.1837, 0.2609, 0.1558



21.1837, 0.5966, 0.3599



21.1837, 0.2951, 0.6245



21.1837, 0.0905, 0.1887



# Rectangle

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



21.1837, 0.2609, 0.1558



21.1837, 0.5210, 0.2556



21.1837, 0.2951, 0.6245



21.1837, 0.1273, 0.3736

# Sweetspot

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



21.1845, 0.2609, 0.1558



69.5036, 0.3015, 0.2797



27.3746, 0.2061, 0.2007



14.0369, 0.2995, 0.2718



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.



21.1845, 0.2609, 0.1558



19.8974, 0.2471, 0.1288



28.5774, 0.3353, 0.1942



15.0059, 0.3076, 0.3053



6.7167, 0.2262, 0.1020



0.5826, 0.2392, 0.1091



# Inverse Universe

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



25.4404, 0.4374, 0.2681



26.0911, 0.4782, 0.2647



61.0008, 0.2974, 0.5195



15.1506, 0.3232, 0.3199



10.2728, 0.5427, 0.2764

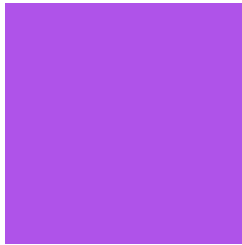


0.8250, 0.5055, 0.2559



# Previews

## White Background



This preview shows how the Yxy color 21.1837, 0.2609, 0.1558 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

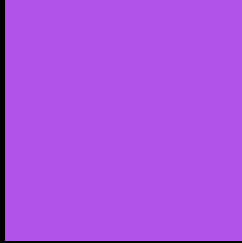
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 21.1837, 0.2609, 0.1558 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

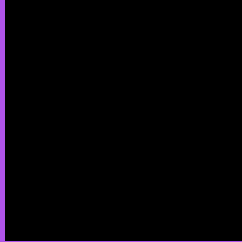
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 21.1837, 0.2609, 0.1558**

## Background



This preview shows how black text looks on a background with the Yxy color 21.1837, 0.2609, 0.1558.



This preview shows how white text looks on a background with the Yxy color 21.1837, 0.2609, 0.1558.

# 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

21.1837, 0.2609, 0.1558

### Protanopia

21.7260, 0.1779, 0.1499

### Deuteranopia

21.5746, 0.1897, 0.1839



## Tritanopia

21.1395, 0.3548, 0.3145

# Trichromacy



## Original Color

21.1837, 0.2609, 0.1558



## Protanomaly

19.3718, 0.1909, 0.1428



## Deuteranomaly

19.3081, 0.2018, 0.1632



## Tritanomaly

20.4735, 0.3169, 0.2406

# Monochromacy



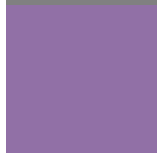
## Original Color

21.1837, 0.2609, 0.1558



## Achromatopsia

21.5861, 0.3127, 0.3290



## Achromatomaly

20.3613, 0.2919, 0.2440

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.1837, 0.2609, 0.1558 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(175, 83, 233)` looks like.

```
.text, #text, p{  
    color:rgb(175, 83, 233)  
}
```

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(175, 83, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 83, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 21.1837, 0.2609, 0.1558 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(175, 83, 233) }
```

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

```
.border{ border-color:rgb(175, 83, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 83, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(175, 83, 233); -webkit-box-shadow:4px 4px 4px 4px rgb(175, 83, 233); box-shadow:4px 4px 4px 4px rgb(175, 83, 233) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.1837, 0.2609, 0.1558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 83, 233) }
```

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

```
.background{ background-color: rgb(175, 83,  
233) }
```

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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