

# Converting Colors

$Y_{xy}(12.9378, 0.1835, 0.1155)$

Have a look what the booklet for  
Yxy(12.9378, 0.1835, 0.1155)  
contains.

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# Color

**Yxy(12.9517, 0.1836, 0.1156)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4E4EE9
RGB	78, 78, 233
RGB Percent	31%, 31%, 91%
CMY	0.6944, 0.6940, 0.0862
CMYK	0.67, 0.67, 0.00, 0.09
HSL	240°, 78%, 61%
HSV	240°, 67%, 91%
XYZ	20.5703, 12.9517, 78.5169
YIQ	95.6700, -49.7550, 48.2050

# Conversions

## Conversions Part 2

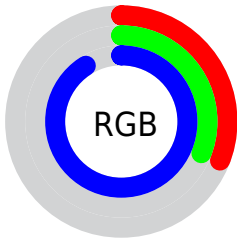
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	78, 78, 233
Decimal	5132009
CIE Lab	42.69, 47.22, -78.16
CIE LCh	43, 91.315, 301.139
Yxy	12.9517, 0.1836, 0.1156
Android (android.graphics.Color)	4283322089 (0xFF4E4EE9)
YUV	95.6700, 67.7037, -15.4966
Hunter-Lab	35.9885, 39.0475, -104.1624

# Details

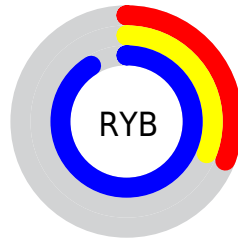
The Yxy color **12.9517, 0.1836, 0.1156** is a dark color, and the websafe version is hex **6666FF**. The color can be described as dark muted blue. A complement of this color would be **76.1031, 0.4039, 0.4795**, and the grayscale version is **11.4535, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.5876, 0.2272, 0.1743**, and **4.1676, 0.1548, 0.0772** is the 20% darker color. If you saturate the color by 10%, you get **9.3927, 0.1678, 0.0895**, and if you desaturate by 10%, it is **18.0305, 0.2030, 0.1477**.

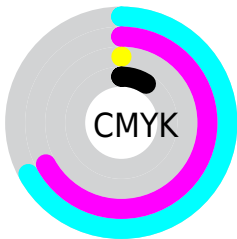
# Distribution



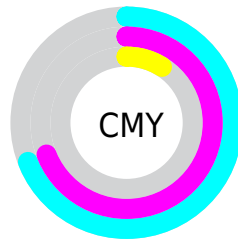
- Red (31%)
- Green (31%)
- Blue (91%)



- Red (31%)
- Yellow (31%)
- Blue (91%)



- Cyan (67%)
- Magenta (67%)
- Yellow (0%)
- Black (9%)




- Cyan (69%)
- Magenta (69%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.9517, 0.1836, 0.1156 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 12.9517, 0.1836, 0.1156 by changing the saturation by 10% instead.





 12.9517, 0.1836,  
0.1156

 12.9517, 0.1836,  
0.1156


210.6079, 0.2560,  
0.2176


 7.3953, 0.1650,  
0.0945


 31.2170, 0.2107,  
0.1500


 3.7105, 0.1418,  
0.0706


 44.6947, 0.2208,  
0.1638


 1.5130, 0.1129,  
0.0450

 61.5815, 0.2292,  
0.1758

 0.2978, 0.0786,  
0.0148

 82.2620, 0.2363,  
0.1864

 0.0000, 0.0337,  
0.0000

 107.1205, 0.2423,  
0.1956

 0.0000, 0.0000,  
0.0000

136.5414, 0.2475,

0.2038

170.9090, 0.2520,  
0.2111

■ 12.9517, 0.1836,  
0.1156

■ 12.9517, 0.1836,  
0.1156

■ 9.3927, 0.1678,  
0.0895

■ 18.0305, 0.2030,  
0.1477

■ 7.1838, 0.1569,  
0.0714

■ 24.7724, 0.2243,  
0.1829


■ 6.1129, 0.1512,  
0.0621


■ 33.3053, 0.2459,  
0.2186


■ 5.8873, 0.1500,  
0.0600

■ 43.7441, 0.2666,  
0.2529

■ 56.1945, 0.2857,  
0.2843

 70.7541, 0.3027,  
0.3125

 87.5143, 0.3176,  
0.3371

 98.6640, 0.3256,  
0.3503

# Harmonies

## Analogous

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



12.9517, 0.1026, 0.1056



12.9517, 0.1836, 0.1156



12.9517, 0.3392, 0.1565

# Triad

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



12.9517, 0.1836, 0.1156



12.9517, 0.6061, 0.3939



12.9517, 0.1035, 0.4173

# Complementary

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



12.9517, 0.1836, 0.1156



76.1031, 0.4039, 0.4795

# 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.



12.9517, 0.2027, 0.6668



12.9517, 0.1836, 0.1156



12.9517, 0.4819, 0.5181

# Square

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



12.9517, 0.1836, 0.1156



12.9517, 0.6466, 0.3033



12.9517, 0.3384, 0.6616



12.9517, 0.0661, 0.2106



# Rectangle

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



12.9517, 0.1836, 0.1156



12.9517, 0.4763, 0.2007



12.9517, 0.3384, 0.6616



12.9517, 0.1299, 0.5133

# Sweetspot

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



12.9520, 0.1836, 0.1156



63.2590, 0.2792, 0.2736



65.6395, 0.2359, 0.3321



12.6159, 0.2738, 0.2647



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.



12.9520, 0.1836, 0.1156



10.3032, 0.1630, 0.0815



18.0820, 0.2394, 0.1417



14.5506, 0.2980, 0.3046



3.3408, 0.1500, 0.0600



0.2629, 0.1501, 0.0602



# Inverse Universe

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



23.3136, 0.5330, 0.3296



23.8679, 0.5944, 0.3298



66.1091, 0.3477, 0.5151



15.0542, 0.3293, 0.3290



9.8301, 0.6400, 0.3299

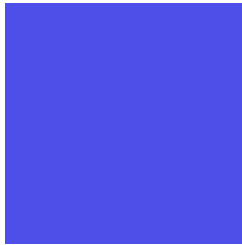


0.7720, 0.6398, 0.3298



# Previews

## White Background



This preview shows how the Yxy color 12.9517, 0.1836, 0.1156 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

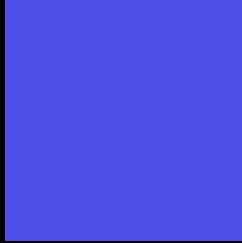
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 12.9517, 0.1836, 0.1156 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

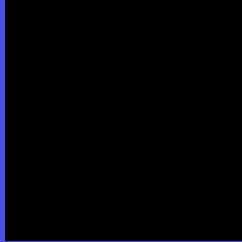
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 12.9517, 0.1836, 0.1156**

## **Background**



This preview shows how black text looks on a background with the Yxy color 12.9517, 0.1836, 0.1156.



This preview shows how white text looks on a background with the Yxy color 12.9517, 0.1836, 0.1156.

# 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

12.9517, 0.1836, 0.1156

### Protanopia

12.9090, 0.1746, 0.1485

### Deuteranopia

12.7956, 0.1858, 0.1889



## Tritanopia

12.7008, 0.2191, 0.3087

# Trichromacy



## Original Color

12.9517, 0.1836, 0.1156

## Protanomaly

12.4655, 0.1732, 0.1316

## Deuteranomaly

12.2378, 0.1794, 0.1520

## Tritanomaly

11.7086, 0.1949, 0.2022

# Monochromacy



## Original Color

12.9517, 0.1836, 0.1156

## Achromatopsia

11.6971, 0.3127, 0.3290

## Achromatomaly

11.3439, 0.2434, 0.2143

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 12.9517, 0.1836, 0.1156 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(78, 78, 233)` looks like.

```
.text, #text, p{  
  color:rgb(78, 78, 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(78, 78, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 78, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 12.9517, 0.1836, 0.1156 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(78, 78, 233) }
```

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

```
.border{ border-color:rgb(78, 78, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 78, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 78, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 78, 233);  
box-shadow:4px 4px 4px 4px rgb(78, 78,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 12.9517, 0.1836, 0.1156 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 78, 233) }
```

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

```
.background{ background-color: rgb(78, 78,  
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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