

Converting Colors

$Y_{xy}(13.3433, 0.1963, 0.1140)$

Have a look what the booklet for
Yxy(13.3433, 0.1963, 0.1140)
contains.

Yxy(13.3200, 0.1960, 0.1139)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(13.3200, 0.1960, 0.1139)

Conversions

Conversions Part 1

Format	Color
Hex	6746EC
RGB	103, 70, 236
RGB Percent	40%, 27%, 93%
CMY	0.5961, 0.7254, 0.0746
CMYK	0.56, 0.70, 0.00, 0.07
HSL	252°, 81%, 60%
HSV	252°, 70%, 93%
XYZ	22.9212, 13.3200, 80.7035
YIQ	98.7910, -33.6180, 58.6220

Conversions

Conversions Part 2

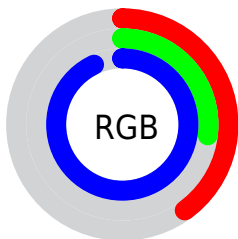
Format	Color
R_{YB}	103, 70, 236
Decimal	6768364
CIE _{Lab}	43.24, 55.87, -78.86
CIE _{LCh}	43, 96.644, 305.317
Yxy	13.3200, 0.1960, 0.1139
Android (android.graphics.Color)	4284958444 (0xFF6746EC)
YUV	98.7910, 67.6440, 3.6913
Hunter-Lab	36.4966, 48.2354, -105.5582

Details

The Yxy color **13.3200, 0.1960, 0.1139** is a dark color, and the websafe version is hex **6633CC**. The color can be described as middle muted purple. A complement of this color would be **73.1160, 0.3821, 0.5015**, and the grayscale version is **12.2571, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.8941, 0.2414, 0.1727**, and **3.8910, 0.1567, 0.0701** is the 20% darker color. If you saturate the color by 10%, you get **9.9306, 0.1801, 0.0903**, and if you desaturate by 10%, it is **18.1219, 0.2141, 0.1431**.

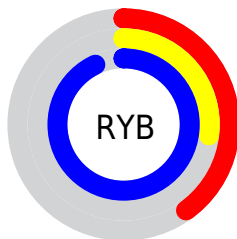
Distribution



Red (40%)

Green (27%)

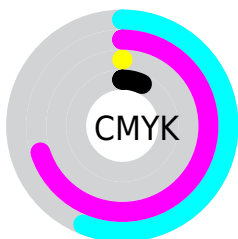
Blue (93%)



Red (40%)

Yellow (27%)

Blue (93%)

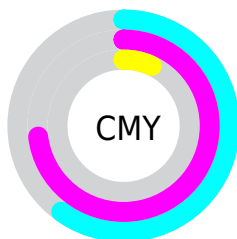


Cyan (56%)

Magenta (70%)

Yellow (0%)

Black (7%)



Cyan (60%)


Magenta (73%)

Yellow (7%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.3200, 0.1960, 0.1139 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 13.3200, 0.1960, 0.1139 by changing the saturation by 10% instead.


 13.3200, 0.1960,
0.1139


 13.3200, 0.1960,
0.1139


212.9584, 0.2625,
0.2151


 7.6493, 0.1786,
0.0932


 31.8775, 0.2212,
0.1477


 3.8714, 0.1565,
0.0700


 45.5330, 0.2304,
0.1614


 1.6019, 0.1286,
0.0450

 62.6190, 0.2381,
0.1734

 0.3589, 0.0945,
0.0167

 83.5197, 0.2446,
0.1838

 0.0000, 0.0533,
0.0000

 108.6196, 0.2501,
0.1931

 0.0000, 0.0000,
0.0000

138.3031, 0.2548,

0.2013

172.9546, 0.2589,
0.2086

■ 13.3200, 0.1960,
0.1139

■ 13.3200, 0.1960,
0.1139

■ 9.9306, 0.1801,
0.0903

■ 18.1219, 0.2141,
0.1431

■ 7.7906, 0.1674,
0.0740

■ 24.4724, 0.2331,
0.1757

■ 6.6571, 0.1587,
0.0648

■ 32.4923, 0.2519,
0.2095

■ 42.2900, 0.2696,
0.2426

■ 53.9647, 0.2857,
0.2739

67.6082, 0.2999,
0.3025

83.3063, 0.3123,
0.3282

98.6947, 0.3233,
0.3474

98.8349, 0.3238,
0.3474

Harmonies

Analogous

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



13.3200, 0.1051, 0.0997



13.3200, 0.1960, 0.1139



13.3200, 0.3683, 0.1597

Triad

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



13.3200, 0.1960, 0.1139



13.3200, 0.5961, 0.4039



13.3200, 0.0874, 0.3801

Complementary

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



13.3200, 0.1960, 0.1139



73.1160, 0.3821, 0.5015

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.



13.3200, 0.1778, 0.6625



13.3200, 0.1960, 0.1139



13.3200, 0.4606, 0.5394

Square

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



13.3200, 0.1960, 0.1139



13.3200, 0.6593, 0.3094



13.3200, 0.3118, 0.6882



13.3200, 0.0587, 0.1871

Rectangle

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



13.3200, 0.1960, 0.1139



13.3200, 0.5126, 0.2064



13.3200, 0.3118, 0.6882



13.3200, 0.1101, 0.4796

Sweetspot

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



13.3203, 0.1960, 0.1139



63.2145, 0.2845, 0.2716



51.2844, 0.2225, 0.2880



12.6654, 0.2802, 0.2631



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.



13.3203, 0.1960, 0.1139



10.6484, 0.1745, 0.0828



20.5558, 0.2661, 0.1480



14.6931, 0.3011, 0.3049



3.7131, 0.1598, 0.0654



0.3309, 0.1723, 0.0723

Inverse Universe

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



26.5222, 0.3571, 0.1991



27.6068, 0.3680, 0.1883



64.6003, 0.3267, 0.5383



15.2595, 0.3168, 0.3103



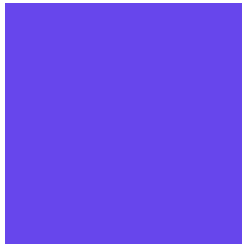
11.8760, 0.3785, 0.1859



0.9456, 0.3690, 0.1807

Previews

White Background



This preview shows how the Yxy color 13.3200, 0.1960, 0.1139 looks on a white background.

Color Contrast Check

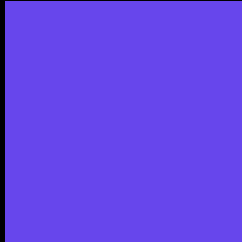
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.3200, 0.1960, 0.1139 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 13.3200, 0.1960, 0.1139

Background



This preview shows how black text looks on a background with the Yxy color 13.3200, 0.1960, 0.1139.



This preview shows how white text looks on a background with the Yxy color 13.3200, 0.1960, 0.1139.

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

13.3200, 0.1960, 0.1139

Protanopia

13.2404, 0.1744, 0.1477

Deuteranopia

13.1150, 0.1853, 0.1872



Tritanopia

13.1751, 0.2461, 0.3075

Trichromacy



Original Color

13.3200, 0.1960, 0.1139

Protanomaly

12.4347, 0.1740, 0.1280

Deuteranomaly

12.1711, 0.1802, 0.1472

Tritanomaly

12.2535, 0.2199, 0.2007

Monochromacy



Original Color

13.3200, 0.1960, 0.1139

Achromatopsia

12.4772, 0.3127, 0.3290

Achromatomaly

11.8587, 0.2530, 0.2117

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.3200, 0.1960, 0.1139 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(103, 70, 236)` looks like.

```
.text, #text, p{  
  color:rgb(103, 70, 236)  
}
```

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(103, 70, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 70, 236) }
```

Border

The CSS property to change the border of an element to Yxy 13.3200, 0.1960, 0.1139 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(103, 70, 236) }
```

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

```
.border{ border-color:rgb(103, 70, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 70, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 70, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 70, 236);  
box-shadow:4px 4px 4px 4px rgb(103, 70,  
236) }
```


Background

The CSS property to change the background color of an element to Yxy 13.3200, 0.1960, 0.1139 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 70, 236) }
```

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

```
.background{ background-color: rgb(103, 70,  
236) }
```

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