

Converting Colors

$Y_{xy}(21.3159, 0.2220, 0.1689)$

Have a look what the booklet for
Yxy(21.3159, 0.2220, 0.1689)
contains.

Yxy(21.2370, 0.2222, 0.1686)	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(21.2370, 0.2222, 0.1686)

Conversions

Conversions Part 1

Format	Color
Hex	7B6FE5
RGB	123, 111, 229
RGB Percent	48%, 44%, 90%
CMY	0.5178, 0.5646, 0.1021
CMYK	0.46, 0.52, 0.00, 0.10
HSL	246°, 69%, 67%
HSV	246°, 52%, 90%
XYZ	27.9885, 21.2370, 76.7354
YIQ	128.0400, -30.7260, 39.2420

Conversions

Conversions Part 2

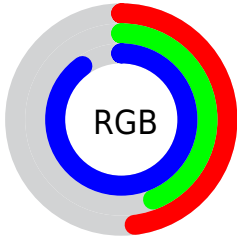
Format	Color
R_{YB}	123, 111, 229
Decimal	8089573
CIE _{Lab}	53.21, 34.34, -58.66
CIE _{LCh}	53, 67.969, 300.344
Yxy	21.2370, 0.2222, 0.1686
Android (android.graphics.Color)	4286279653 (0xFF7B6FE5)
YUV	128.0400, 49.7733, -4.4201
Hunter-Lab	46.0836, 27.7642, -66.4672

Details

The Yxy color **21.2370, 0.2222, 0.1686** is a light color, and the websafe version is hex **6666CC**. A complement of this color would be **71.9314, 0.3785, 0.4575**, and the grayscale version is **21.4328, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.2381, 0.2591, 0.2232**, and **7.6621, 0.1922, 0.1288** is the 20% darker color. If you saturate the color by 10%, you get **15.5029, 0.2022, 0.1353**, and if you desaturate by 10%, it is **28.5720, 0.2426, 0.2034**.

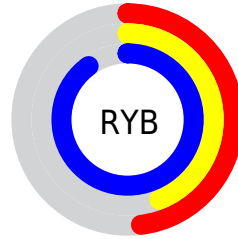
Distribution



Red (48%)

Green (44%)

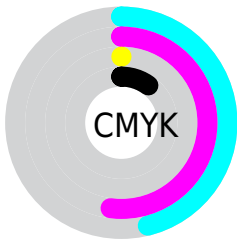
Blue (90%)



Red (48%)

Yellow (44%)

Blue (90%)

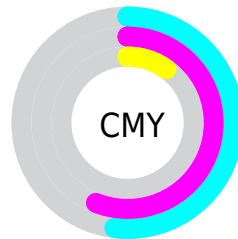


Cyan (46%)

Magenta (52%)

Yellow (0%)

Black (10%)



Cyan (52%)


Magenta (56%)

Yellow (10%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 21.2370, 0.2222, 0.1686 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 21.2370, 0.2222, 0.1686 by changing the saturation by 10% instead.


 21.2370, 0.2222,
0.1686


 21.2370, 0.2222,
0.1686


258.5353, 0.2719,
0.2471


 13.2974, 0.2091,
0.1506


 45.4816, 0.2410,
0.1961

 7.6336, 0.1921,
0.1289


 62.5554, 0.2478,
0.2068

 3.8614, 0.1698,
0.1026


 83.4427, 0.2535,
0.2160

 1.5963, 0.1399,
0.0714

 108.5279, 0.2584,
0.2239

 0.3551, 0.1010,
0.0294

138.1953, 0.2625,
0.2308

 0.0000, 0.0215,
0.0000

172.8294, 0.2661,

 0.0000, 0.0000,

0.2369

0.0000

212.8147, 0.2692,
0.2423

■ 21.2370, 0.2222,
0.1686

■ 21.2370, 0.2222,
0.1686

■ 15.5029, 0.2022,
0.1353

■ 28.5720, 0.2426,
0.2034

■ 11.2475, 0.1840,
0.1061

■ 37.6135, 0.2622,
0.2376

■ 8.3344, 0.1690,
0.0833

■ 48.4607, 0.2803,
0.2698

■ 6.6004, 0.1584,
0.0684

■ 61.2043, 0.2965,
0.2992

■ 5.8401, 0.1529,
0.0616

■ 75.9291, 0.3107,
0.3253

 92.7147, 0.3231,
0.3483

 98.4359, 0.3280,
0.3542

Harmonies

Analogous

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



21.2370, 0.1548, 0.1622



21.2370, 0.2222, 0.1686



21.2370, 0.3317, 0.2029

Triad

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



21.2370, 0.2222, 0.1686



21.2370, 0.5346, 0.4082



21.2370, 0.1724, 0.3941

Complementary

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



21.2370, 0.2222, 0.1686



71.9314, 0.3785, 0.4575

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.



21.2370, 0.2589, 0.5281



21.2370, 0.2222, 0.1686



21.2370, 0.4655, 0.4918

Square

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



21.2370, 0.2222, 0.1686



21.2370, 0.5389, 0.3309



21.2370, 0.3655, 0.5550



21.2370, 0.1291, 0.2619

Rectangle

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



21.2370, 0.2222, 0.1686



21.2370, 0.4179, 0.2394



21.2370, 0.3655, 0.5550



21.2370, 0.1970, 0.4447

Sweetspot

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



21.2377, 0.2222, 0.1686



72.0298, 0.2909, 0.2890



58.7561, 0.2431, 0.3136



14.6750, 0.2875, 0.2828



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.



21.2377, 0.2222, 0.1686



19.2552, 0.2006, 0.1326



26.9497, 0.2727, 0.1881



13.9566, 0.2996, 0.3048



3.3637, 0.1536, 0.0620



0.2723, 0.1621, 0.0667

Inverse Universe

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



33.0396, 0.3303, 0.2160



36.0227, 0.3347, 0.1974



64.4638, 0.3345, 0.4789



14.5888, 0.3153, 0.3081



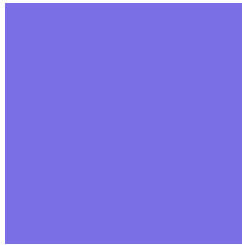
12.0774, 0.3481, 0.1691



0.8998, 0.3436, 0.1667

Previews

White Background



This preview shows how the Yxy color 21.2370, 0.2222, 0.1686 looks on a white background.

Color Contrast Check

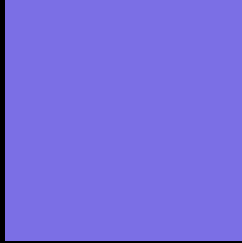
Large Text (above 18pt) WCAG AA ✓ Pass

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 21.2370, 0.2222, 0.1686 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

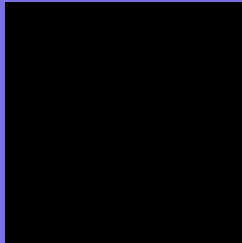
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 21.2370, 0.2222, 0.1686

Background



This preview shows how black text looks on a background with the Yxy color 21.2370, 0.2222, 0.1686.



This preview shows how white text looks on a background with the Yxy color 21.2370, 0.2222, 0.1686.

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

21.2370, 0.2222, 0.1686

Protanopia

21.5089, 0.1879, 0.1624

Deuteranopia

21.5301, 0.1882, 0.1825



Tritanopia

21.1383, 0.2676, 0.3082

Trichromacy



Original Color

21.2370, 0.2222, 0.1686

Protanomaly

21.1929, 0.1971, 0.1635

Deuteranomaly

20.6390, 0.1948, 0.1743

Tritanomaly

20.6594, 0.2486, 0.2442

Monochromacy



Original Color

21.2370, 0.2222, 0.1686

Achromatopsia

21.5861, 0.3127, 0.3290

Achromatomaly

21.0713, 0.2729, 0.2572

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.2370, 0.2222, 0.1686 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(123, 111, 229)` looks like.

```
.text, #text, p{  
    color:rgb(123, 111, 229)  
}
```

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(123, 111, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 111, 229) }
```

Border

The CSS property to change the border of an element to Yxy 21.2370, 0.2222, 0.1686 is called "border". The border property can be set on classes, ids or directly on the HTML element.

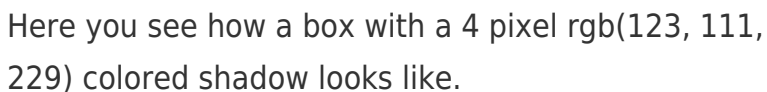
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(123, 111, 229) }
```

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

```
.border{ border-color:rgb(123, 111, 229) }
```

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



Here you see how a box with a 4 pixel `rgb(123, 111, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 111, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 111, 229);  
box-shadow:4px 4px 4px 4px rgb(123, 111,  
229) }
```


Background

The CSS property to change the background color of an element to Yxy 21.2370, 0.2222, 0.1686 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 111, 229) }
```

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

```
.background{ background-color: rgb(123,  
111, 229) }
```

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