

Converting Colors

$Y_{xy}(12.5709, 0.1771, 0.1091)$

Have a look what the booklet for
Yxy(12.5709, 0.1771, 0.1091)
contains.

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Color

Yxy(12.5709, 0.1771, 0.1091)

Conversions

Conversions Part 1

Format	Color
Hex	444CEE
RGB	68, 76, 238
RGB Percent	27%, 30%, 93%
CMY	0.7330, 0.7021, 0.0666
CMYK	0.71, 0.68, 0.00, 0.07
HSL	237°, 83%, 60%
HSV	237°, 71%, 93%
XYZ	20.4061, 12.5709, 82.2466
YIQ	92.0760, -56.7700, 48.6860

Conversions

Conversions Part 2

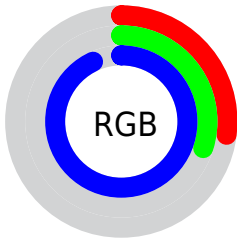
Format	Color
R _Y B	68, 76, 238
Decimal	4476142
CIE _{Lab}	42.11, 48.92, -81.96
CIE _{LCh}	42, 95.447, 300.835
Y _{xy}	12.5709, 0.1771, 0.1091
Android (android.graphics.Color)	4282666222 (0xFF444CEE)
Y _{UV}	92.0760, 71.9405, -21.1147
Hunter-Lab	35.4555, 40.6872, -112.7172

Details

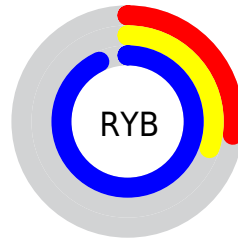
The Yxy color **12.5709, 0.1771, 0.1091** is a dark color, and the websafe version is hex **3333CC**. The color can be described as dark muted blue. A complement of this color would be **75.2607, 0.4130, 0.4809**, and the grayscale version is **10.5655, 0.3127, 0.3290**.

A 20% lighter version of the original color is **27.5450, 0.2228, 0.1705**, and **4.2647, 0.1541, 0.0746** is the 20% darker color. If you saturate the color by 10%, you get **9.2871, 0.1633, 0.0854**, and if you desaturate by 10%, it is **17.3048, 0.1949, 0.1390**.

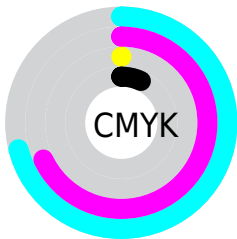
Distribution



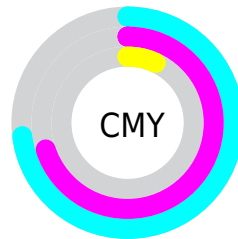
- Red (27%)
- Green (30%)
- Blue (93%)



- Red (27%)
- Yellow (30%)
- Blue (93%)



- Cyan (71%)
- Magenta (68%)
- Yellow (0%)
- Black (7%)




- Cyan (73%)
- Magenta (70%)
- Yellow (7%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.5709, 0.1771, 0.1091 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 12.5709, 0.1771, 0.1091 by changing the saturation by 10% instead.


 12.5709, 0.1771,
0.1091


 12.5709, 0.1771,
0.1091


208.1490, 0.2526,
0.2130

 7.1337, 0.1581,
0.0881


 30.5307, 0.2052,
0.1437


 3.5459, 0.1346,
0.0648


 43.8221, 0.2156,
0.1577


 1.4229, 0.1058,
0.0402

 60.5004, 0.2244,
0.1700

 0.2335, 0.0723,
0.0109

 80.9500, 0.2318,
0.1808

 0.0000, 0.0294,
0.0000

 105.5553, 0.2382,
0.1903

 0.0000, 0.0000,
0.0000

134.7006, 0.2437,

0.1987

168.7704, 0.2484,
0.2062

■ 12.5709, 0.1771,
0.1091

■ 12.5709, 0.1771,
0.1091

■ 9.2871, 0.1633,
0.0854

■ 17.3048, 0.1949,
0.1390

■ 7.2857, 0.1545,
0.0694

■ 23.6298, 0.2151,
0.1725

■ 6.4139, 0.1506,
0.0621

■ 31.6711, 0.2364,
0.2071

■ 41.5411, 0.2573,
0.2408

■ 53.3427, 0.2769,
0.2723

■ 67.1712, 0.2947,
0.3007

■ 83.1155, 0.3107,
0.3258

■ 98.9536, 0.3226,
0.3454

Harmonies

Analogous

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



12.5709, 0.0959, 0.0993



12.5709, 0.1771, 0.1091



12.5709, 0.3374, 0.1500

Triad

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



12.5709, 0.1771, 0.1091



12.5709, 0.6131, 0.3869



12.5709, 0.0955, 0.4237

Complementary

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



12.5709, 0.1771, 0.1091



75.2607, 0.4130, 0.4809

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.



12.5709, 0.1948, 0.6898



12.5709, 0.1771, 0.1091



12.5709, 0.4831, 0.5169

Square

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



12.5709, 0.1771, 0.1091



12.5709, 0.6598, 0.2969



12.5709, 0.3312, 0.6688



12.5709, 0.0593, 0.2050

Rectangle

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



12.5709, 0.1771, 0.1091



12.5709, 0.4819, 0.1945



12.5709, 0.3312, 0.6688



12.5709, 0.1217, 0.5276

Sweetspot

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



12.5712, 0.1771, 0.1091



62.8546, 0.2775, 0.2732



68.0726, 0.2354, 0.3397



12.5805, 0.2722, 0.2648



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.



12.5712, 0.1771, 0.1091



9.5339, 0.1583, 0.0765



16.2981, 0.2275, 0.1274



15.3463, 0.2979, 0.3057



3.6289, 0.1508, 0.0629



0.3430, 0.1529, 0.0705

Inverse Universe

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



22.8454, 0.5466, 0.3232



22.6999, 0.6070, 0.3253



69.2069, 0.3517, 0.5242



15.7707, 0.3286, 0.3279



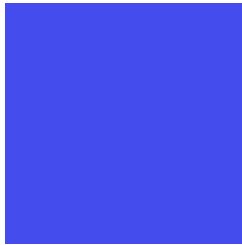
10.1597, 0.6352, 0.3273



0.8493, 0.6225, 0.3203

Previews

White Background



This preview shows how the Yxy color 12.5709, 0.1771, 0.1091 looks on a white background.

Color Contrast Check

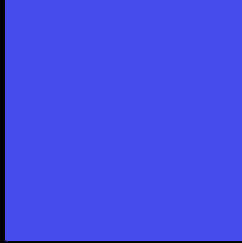
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.5709, 0.1771, 0.1091 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

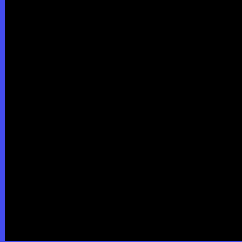
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.5709, 0.1771, 0.1091

Background



This preview shows how black text looks on a background with the Yxy color 12.5709, 0.1771, 0.1091.



This preview shows how white text looks on a background with the Yxy color 12.5709, 0.1771, 0.1091.

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

12.5709, 0.1771, 0.1091

Protanopia

12.4015, 0.1744, 0.1478

Deuteranopia

12.2859, 0.1857, 0.1886



Tritanopia

12.2216, 0.2190, 0.3084

Trichromacy



Original Color

12.5709, 0.1771, 0.1091

Protanomaly

12.0412, 0.1720, 0.1292

Deuteranomaly

11.8465, 0.1778, 0.1484

Tritanomaly

11.3293, 0.1923, 0.1962

Monochromacy



Original Color

12.5709, 0.1771, 0.1091

Achromatopsia

10.7023, 0.3127, 0.3290

Achromatomaly

10.5389, 0.2366, 0.2077

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.5709, 0.1771, 0.1091 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(68, 76, 238)` looks like.

```
.text, #text, p{  
  color:rgb(68, 76, 238)  
}
```

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(68, 76, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 76, 238) }
```

Border

The CSS property to change the border of an element to Yxy 12.5709, 0.1771, 0.1091 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(68, 76, 238) }
```

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

```
.border{ border-color:rgb(68, 76, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 76, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 76, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 76, 238);  
box-shadow:4px 4px 4px 4px rgb(68, 76,  
238) }
```


Background

The CSS property to change the background color of an element to Yxy 12.5709, 0.1771, 0.1091 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 76, 238) }
```

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

```
.background{ background-color: rgb(68, 76,  
238) }
```

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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