

Converting Colors

$Y_{xy}(12.7228, 0.1774, 0.1102)$

Have a look what the booklet for
Yxy(12.7228, 0.1774, 0.1102)
contains.

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Color

Yxy(12.7097, 0.1773, 0.1101)

Conversions

Conversions Part 1

Format	Color
Hex	444DEE
RGB	68, 77, 238
RGB Percent	27%, 30%, 93%
CMY	0.7335, 0.6980, 0.0667
CMYK	0.71, 0.68, 0.00, 0.07
HSL	237°, 83%, 60%
HSV	237°, 71%, 93%
XYZ	20.4671, 12.7097, 82.2610
YIQ	92.6630, -57.0450, 48.1630

Conversions

Conversions Part 2

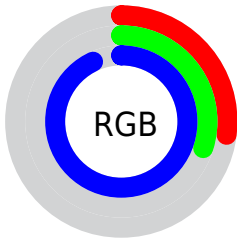
Format	Color
R _Y B	68, 77, 238
Decimal	4476398
CIE Lab	42.32, 48.30, -81.60
CIE LCh	42, 94.824, 300.623
Yxy	12.7097, 0.1773, 0.1101
Android (android.graphics.Color)	4282666478 (0xFF444DEE)
YUV	92.6630, 71.6511, -21.6295
Hunter-Lab	35.6507, 40.0885, -111.8513

Details

The Yxy color **12.7097, 0.1773, 0.1101** 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 **74.5985, 0.4139, 0.4801**, and the grayscale version is **10.7035, 0.3127, 0.3290**.

A 20% lighter version of the original color is **27.8020, 0.2230, 0.1716**, and **4.3692, 0.1545, 0.0762** is the 20% darker color. If you saturate the color by 10%, you get **9.3953, 0.1635, 0.0862**, and if you desaturate by 10%, it is **17.4631, 0.1950, 0.1400**.

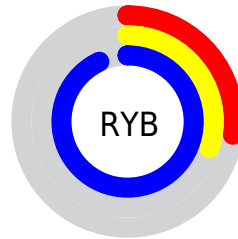
Distribution



Red (27%)

Green (30%)

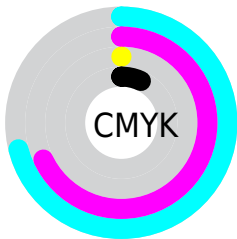
Blue (93%)



Red (27%)

Yellow (30%)

Blue (93%)

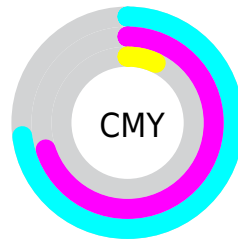


Cyan (71%)

Magenta (68%)

Yellow (0%)

Black (7%)



Cyan (73%)

Magenta (70%)

Yellow (7%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7097, 0.1773, 0.1101 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 12.7097, 0.1773, 0.1101 by changing the saturation by 10% instead.


 12.7097, 0.1773,
0.1101


 12.7097, 0.1773,
0.1101


209.0487, 0.2526,
0.2136


 7.2290, 0.1584,
0.0891


 30.7813, 0.2053,
0.1446


 3.6057, 0.1349,
0.0658


 44.1408, 0.2157,
0.1586


 1.4555, 0.1062,
0.0411

 60.8955, 0.2245,
0.1708

 0.2571, 0.0727,
0.0119

 81.4296, 0.2319,
0.1816

 0.0000, 0.0300,
0.0000

 106.1276, 0.2382,
0.1910

 0.0000, 0.0000,
0.0000

135.3739, 0.2437,

0.1994

169.5528, 0.2484,
0.2069

■ 12.7097, 0.1773,
0.1101

■ 12.7097, 0.1773,
0.1101

■ 9.3953, 0.1635,
0.0862

■ 17.4631, 0.1950,
0.1400

■ 7.3557, 0.1546,
0.0700

■ 23.7937, 0.2152,
0.1733

■ 6.4526, 0.1507,
0.0624

■ 31.8242, 0.2364,
0.2078

■ 41.6651, 0.2572,
0.2413

■ 53.4176, 0.2768,
0.2725

■ 67.1753, 0.2947,
0.3007

■ 83.0256, 0.3106,
0.3257

■ 98.9529, 0.3226,
0.3454

Harmonies

Analogous

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



12.7097, 0.0967, 0.1005



12.7097, 0.1773, 0.1101



12.7097, 0.3360, 0.1507

Triad

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



12.7097, 0.1773, 0.1101



12.7097, 0.6127, 0.3873



12.7097, 0.0976, 0.4251

Complementary

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



12.7097, 0.1773, 0.1101



74.5985, 0.4139, 0.4801

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.



12.7097, 0.1974, 0.6866



12.7097, 0.1773, 0.1101



12.7097, 0.4842, 0.5158

Square

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



12.7097, 0.1773, 0.1101



12.7097, 0.6571, 0.2975



12.7097, 0.3338, 0.6662



12.7097, 0.0607, 0.2072

Rectangle

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



12.7097, 0.1773, 0.1101



12.7097, 0.4789, 0.1950



12.7097, 0.3338, 0.6662



12.7097, 0.1241, 0.5276

Sweetspot

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



12.7100, 0.1773, 0.1101



63.0297, 0.2775, 0.2736



67.9022, 0.2365, 0.3434



12.6211, 0.2722, 0.2653



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.



12.7100, 0.1773, 0.1101



9.6534, 0.1585, 0.0773



16.0208, 0.2250, 0.1261



15.3637, 0.2979, 0.3059



3.6563, 0.1509, 0.0633



0.3514, 0.1533, 0.0720

Inverse Universe

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



22.8416, 0.5453, 0.3222



22.7120, 0.6057, 0.3246



69.4902, 0.3536, 0.5230



15.7725, 0.3285, 0.3278



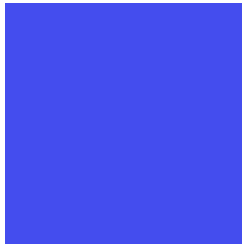
10.1624, 0.6344, 0.3269



0.8502, 0.6200, 0.3189

Previews

White Background



This preview shows how the Yxy color 12.7097, 0.1773, 0.1101 looks on a white background.

Color Contrast Check

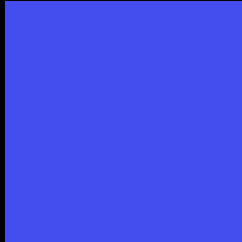
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.7097, 0.1773, 0.1101 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 12.7097, 0.1773, 0.1101

Background



This preview shows how black text looks on a background with the Yxy color 12.7097, 0.1773, 0.1101.



This preview shows how white text looks on a background with the Yxy color 12.7097, 0.1773, 0.1101.

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

12.7097, 0.1773, 0.1101

Protanopia

12.6300, 0.1746, 0.1486

Deuteranopia

12.5199, 0.1859, 0.1894



Tritanopia

12.4362, 0.2197, 0.3110

Trichromacy



Original Color

12.7097, 0.1773, 0.1101

Protanomaly

12.2577, 0.1722, 0.1300

Deuteranomaly

12.0666, 0.1780, 0.1492

Tritanomaly

11.5152, 0.1929, 0.1983

Monochromacy



Original Color

12.7097, 0.1773, 0.1101

Achromatopsia

10.9462, 0.3127, 0.3290

Achromatomaly

10.7765, 0.2372, 0.2086

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7097, 0.1773, 0.1101 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, 77, 238)` looks like.

```
.text, #text, p{  
    color:rgb(68, 77, 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, 77, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 77, 238) }
```

Border

The CSS property to change the border of an element to Yxy 12.7097, 0.1773, 0.1101 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, 77, 238) }
```

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

```
.border{ border-color:rgb(68, 77, 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, 77, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 77, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 77, 238);  
box-shadow:4px 4px 4px 4px rgb(68, 77,  
238) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7097, 0.1773, 0.1101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 77, 238) }
```

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

```
.background{ background-color: rgb(68, 77,  
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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