

Converting Colors

$Y_{xy}(12.8156, 0.2126, 0.1290)$

Have a look what the booklet for
Yxy(12.8156, 0.2126, 0.1290)
contains.

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Color

Yxy(12.8575, 0.2126, 0.1289)

Conversions

Conversions Part 1

Format	Color
Hex	7047D7
RGB	112, 71, 215
RGB Percent	44%, 28%, 84%
CMY	0.5607, 0.7217, 0.1567
CMYK	0.48, 0.67, 0.00, 0.16
HSL	257°, 64%, 56%
HSV	257°, 67%, 84%
XYZ	21.2064, 12.8575, 65.6840
YIQ	99.6750, -21.7880, 53.4760

Conversions

Conversions Part 2

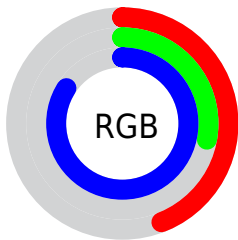
Format	Color
R_{YB}	112, 71, 215
Decimal	7358423
CIE Lab	42.55, 50.90, -68.05
CIE LCh	43, 84.976, 306.796
Yxy	12.8575, 0.2126, 0.1289
Android (android.graphics.Color)	4285548503 (0xFF7047D7)
YUV	99.6750, 56.8552, 10.8090
Hunter-Lab	35.8574, 42.8163, -83.5080

Details

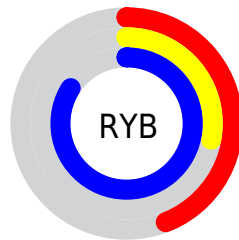
The Yxy color **12.8575, 0.2126, 0.1289** is a dark color, and the websafe version is hex **6633CC**. The color can be described as middle muted purple. A complement of this color would be **58.0782, 0.3702, 0.5011**, and the grayscale version is **12.5132, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.7970, 0.2463, 0.1755**, and **3.6925, 0.1748, 0.0828** is the 20% darker color. If you saturate the color by 10%, you get **9.6663, 0.1962, 0.1038**, and if you desaturate by 10%, it is **17.1890, 0.2300, 0.1585**.

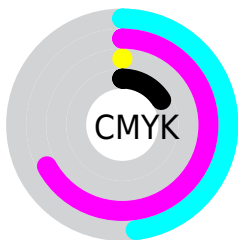
Distribution



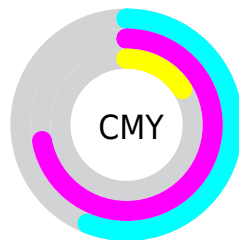
- Red (44%)
- Green (28%)
- Blue (84%)



- Red (44%)
- Yellow (28%)
- Blue (84%)



- Cyan (48%)
- Magenta (67%)
- Yellow (0%)
- Black (16%)




- Cyan (56%)
- Magenta (72%)
- Yellow (16%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8575, 0.2126, 0.1289 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 12.8575, 0.2126, 0.1289 by changing the saturation by 10% instead.


 12.8575, 0.2126,
0.1289


 12.8575, 0.2126,
0.1289


210.0024, 0.2715,
0.2271


 7.3305, 0.1961,
0.1074


 31.0475, 0.2356,
0.1629


 3.6696, 0.1745,
0.0823


 44.4794, 0.2439,
0.1762

 1.4905, 0.1458,
0.0543

 61.3149, 0.2506,
0.1878

 0.2821, 0.1091,
0.0181

 81.9386, 0.2562,
0.1978

 0.0000, 0.0560,
0.0000

 106.7348, 0.2610,
0.2065

 0.0000, 0.0000,
0.0000

136.0879, 0.2650,

0.2142

170.3823, 0.2685,
0.2210

■ 12.8575, 0.2126,
0.1289

■ 12.8575, 0.2126,
0.1289

■ 9.6663, 0.1962,
0.1038

■ 17.1890, 0.2300,
0.1585

■ 7.4982, 0.1819,
0.0847

■ 22.7596, 0.2475,
0.1905

■ 6.2028, 0.1705,
0.0725

■ 29.6584, 0.2642,
0.2230

■ 5.9087, 0.1675,
0.0697

■ 37.9660, 0.2795,
0.2546

■ 47.7562, 0.2933,
0.2843

■ 59.0977, 0.3053,
0.3116

■ 72.0549, 0.3157,
0.3361

■ 86.6884, 0.3245,
0.3579

■ 96.8316, 0.3333,
0.3684

Harmonies

Analogous

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



12.8575, 0.1214, 0.1136



12.8575, 0.2126, 0.1289



12.8575, 0.3741, 0.1753

Triad

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



12.8575, 0.2126, 0.1289



12.8575, 0.5800, 0.4200



12.8575, 0.1028, 0.3666

Complementary

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



12.8575, 0.2126, 0.1289



58.0782, 0.3702, 0.5011

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.



12.8575, 0.1911, 0.6105



12.8575, 0.2126, 0.1289



12.8575, 0.4569, 0.5431

Square

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



12.8575, 0.2126, 0.1289



12.8575, 0.6320, 0.3249



12.8575, 0.3197, 0.6612



12.8575, 0.0729, 0.1970

Rectangle

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



12.8575, 0.2126, 0.1289



12.8575, 0.5020, 0.2214



12.8575, 0.3197, 0.6612



12.8575, 0.1252, 0.4504

Sweetspot

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



12.8579, 0.2126, 0.1289



65.3924, 0.2891, 0.2751



36.6069, 0.2202, 0.2683



13.1170, 0.2852, 0.2667



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.



12.8579, 0.2126, 0.1289



12.8456, 0.1905, 0.0958



19.5817, 0.2851, 0.1630



12.1783, 0.3025, 0.3052



3.5792, 0.1688, 0.0704



0.2577, 0.1875, 0.0807

Inverse Universe

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



22.0140, 0.3710, 0.2153



27.6540, 0.3874, 0.2041



51.9144, 0.3184, 0.5340



12.5696, 0.3181, 0.3125



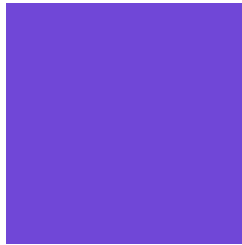
10.0509, 0.4083, 0.2023



0.6201, 0.3898, 0.1921

Previews

White Background



This preview shows how the Yxy color 12.8575, 0.2126, 0.1289 looks on a white background.

Color Contrast Check

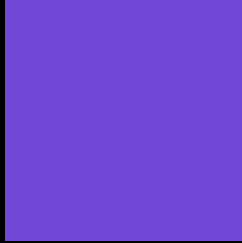
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.8575, 0.2126, 0.1289 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

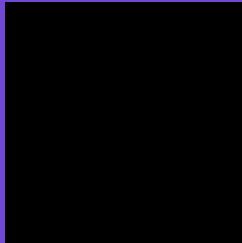
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8575, 0.2126, 0.1289

Background



This preview shows how black text looks on a background with the Yxy color 12.8575, 0.2126, 0.1289.



This preview shows how white text looks on a background with the Yxy color 12.8575, 0.2126, 0.1289.

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

12.8575, 0.2126, 0.1289

Protanopia

12.9572, 0.1744, 0.1477

Deuteranopia

12.8748, 0.1851, 0.1864



Tritanopia

12.7552, 0.2763, 0.3083

Trichromacy



Original Color

12.8575, 0.2126, 0.1289



Protanomaly

12.0543, 0.1772, 0.1343



Deuteranomaly

11.7152, 0.1836, 0.1530



Tritanomaly

12.0318, 0.2468, 0.2155

Monochromacy



Original Color

12.8575, 0.2126, 0.1289



Achromatopsia

12.7438, 0.3127, 0.3290



Achromatomaly

12.0408, 0.2654, 0.2256

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8575, 0.2126, 0.1289 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(112, 71, 215)` looks like.

```
.text, #text, p{  
    color:rgb(112, 71, 215)  
}
```

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(112, 71, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 71, 215) }
```

Border

The CSS property to change the border of an element to Yxy 12.8575, 0.2126, 0.1289 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(112, 71, 215) }
```

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

```
.border{ border-color:rgb(112, 71, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 71, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 71, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 71, 215);  
box-shadow:4px 4px 4px 4px rgb(112, 71,  
215) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8575, 0.2126, 0.1289 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 71, 215) }
```

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

```
.background{ background-color: rgb(112, 71,  
215) }
```

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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