

Converting Colors

$Y_{xy}(12.7052, 0.1741, 0.1221)$

Have a look what the booklet for
Yxy(12.7052, 0.1741, 0.1221)
contains.

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Color

Yxy(12.7045, 0.1739, 0.1218)

Conversions

Conversions Part 1

Format	Color
Hex	2D56E2
RGB	45, 86, 226
RGB Percent	18%, 34%, 89%
CMY	0.8236, 0.6628, 0.1136
CMYK	0.80, 0.62, 0.00, 0.11
HSL	226°, 76%, 53%
HSV	226°, 80%, 89%
XYZ	18.1389, 12.7045, 73.4629
YIQ	89.7010, -69.3760, 34.8480

Conversions

Conversions Part 2

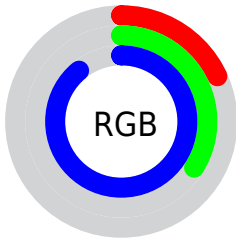
Format	Color
R _Y B	45, 78, 226
Decimal	2971362
CIE Lab	42.31, 36.51, -74.87
CIE LCh	42, 83.301, 295.997
Yxy	12.7045, 0.1739, 0.1218
Android (android.graphics.Color)	4281161442 (0xFF2D56E2)
YUV	89.7010, 67.1954, -39.2028
Hunter-Lab	35.6434, 28.4625, -97.2495

Details

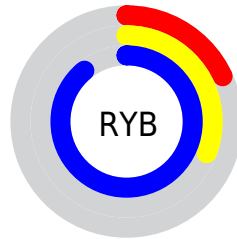
The Yxy color **12.7045, 0.1739, 0.1218** is a dark color, and the websafe version is hex **3366FF**. The color can be described as dark washed blue. A complement of this color would be **51.0650, 0.4472, 0.4642**, and the grayscale version is **10.0124, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.5410, 0.2136, 0.1769**, and **4.5205, 0.1582, 0.0895** is the 20% darker color. If you saturate the color by 10%, you get **9.8639, 0.1632, 0.0996**, and if you desaturate by 10%, it is **16.5024, 0.1881, 0.1480**.

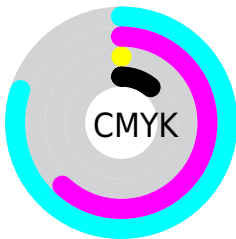
Distribution



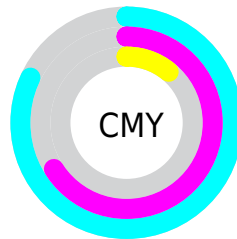
- Red (18%)
- Green (34%)
- Blue (89%)



- Red (18%)
- Yellow (31%)
- Blue (89%)



- Cyan (80%)
- Magenta (62%)
- Yellow (0%)
- Black (11%)




- Cyan (82%)
- Magenta (66%)
- Yellow (11%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7045, 0.1739, 0.1218 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 12.7045, 0.1739, 0.1218 by changing the saturation by 10% instead.


 12.7045, 0.1739,
0.1218


 12.7045, 0.1739,
0.1218


209.0151, 0.2509,
0.2234


 7.2254, 0.1544,
0.1000


 30.7719, 0.2026,
0.1567


 3.6034, 0.1301,
0.0752


 44.1289, 0.2133,
0.1705


 1.4543, 0.1002,
0.0481

 60.8807, 0.2222,
0.1825

 0.2562, 0.0656,
0.0144

 81.4117, 0.2298,
0.1929

 0.0000, 0.0085,
0.0000

 106.1062, 0.2362,
0.2020

 0.0000, 0.0000,
0.0000

135.3487, 0.2418,

0.2100

169.5235, 0.2466,
0.2171

■ 12.7045, 0.1739,
0.1218

■ 12.7045, 0.1739,
0.1218

■ 9.8639, 0.1632,
0.0996

■ 16.5024, 0.1881,
0.1480

■ 7.8773, 0.1563,
0.0825

■ 21.3407, 0.2051,
0.1765

■ 27.2936, 0.2237,
0.2058

■ 34.4279, 0.2429,
0.2345

■ 42.8048, 0.2619,
0.2616

■ 52.4812, 0.2801,
0.2865

■ 63.5105, 0.2970,
0.3089

■ 75.9429, 0.3126,
0.3288

■ 89.8259, 0.3267,
0.3463

Harmonies

Analogous

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



12.7045, 0.1040, 0.1174



12.7045, 0.1739, 0.1218



12.7045, 0.3086, 0.1567

Triad

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



12.7045, 0.1739, 0.1218



12.7045, 0.6078, 0.3840



12.7045, 0.1298, 0.4554

Complementary

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



12.7045, 0.1739, 0.1218



51.0650, 0.4472, 0.4642

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.



12.7045, 0.2369, 0.6532



12.7045, 0.1739, 0.1218



12.7045, 0.5045, 0.4955

Square

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



12.7045, 0.1739, 0.1218



12.7045, 0.6186, 0.2977



12.7045, 0.3725, 0.6275



12.7045, 0.0805, 0.2447

Rectangle

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



12.7045, 0.1739, 0.1218



12.7045, 0.4321, 0.1969



12.7045, 0.3725, 0.6275



12.7045, 0.1602, 0.5396

Sweetspot

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



12.7048, 0.1739, 0.1218



63.6106, 0.2728, 0.2767



58.4136, 0.2463, 0.3897



12.6503, 0.2662, 0.2677



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.



12.7048, 0.1739, 0.1218



11.1418, 0.1584, 0.0878



9.7089, 0.1888, 0.0954



13.7444, 0.2981, 0.3103



4.6406, 0.1569, 0.0848



0.4559, 0.1649, 0.1135

Inverse Universe

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



18.7199, 0.5367, 0.2956



21.8707, 0.5937, 0.3068



64.0288, 0.3756, 0.5230



13.7511, 0.3257, 0.3237



9.3765, 0.5993, 0.3075



0.6635, 0.5559, 0.2836

Previews

White Background



This preview shows how the Yxy color 12.7045, 0.1739, 0.1218 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 12.7045, 0.1739, 0.1218 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

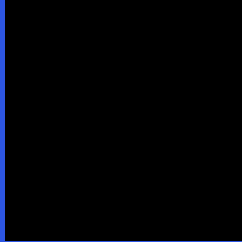
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7045, 0.1739, 0.1218

Background



This preview shows how black text looks on a background with the Yxy color 12.7045, 0.1739, 0.1218.



This preview shows how white text looks on a background with the Yxy color 12.7045, 0.1739, 0.1218.

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

12.7045, 0.1739, 0.1218

Protanopia

12.6300, 0.1746, 0.1486

Deuteranopia

12.5199, 0.1859, 0.1894



Tritanopia

12.4362, 0.2197, 0.3110

Trichromacy



Original Color

12.7045, 0.1739, 0.1218

Protanomaly

12.4676, 0.1727, 0.1363

Deuteranomaly

12.2817, 0.1790, 0.1581

Tritanomaly

11.8518, 0.1942, 0.2101

Monochromacy



Original Color

12.7045, 0.1739, 0.1218

Achromatopsia

10.2242, 0.3127, 0.3290

Achromatomaly

10.4647, 0.2333, 0.2208

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7045, 0.1739, 0.1218 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(45, 86, 226)` looks like.

```
.text, #text, p{  
    color:rgb(45, 86, 226)  
}
```

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(45, 86, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 86, 226) }
```

Border

The CSS property to change the border of an element to Yxy 12.7045, 0.1739, 0.1218 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(45, 86, 226) }
```

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

```
.border{ border-color:rgb(45, 86, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 86, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 86, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 86, 226);  
box-shadow:4px 4px 4px 4px rgb(45, 86,  
226) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7045, 0.1739, 0.1218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 86, 226) }
```

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

```
.background{ background-color: rgb(45, 86,  
226) }
```

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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