

Converting Colors

$Y_{xy}(12.2030, 0.2289, 0.2351)$

Have a look what the booklet for
Yxy(12.2030, 0.2289, 0.2351)
contains.

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Color

Yxy(12.1721, 0.2294, 0.2352)

Conversions

Conversions Part 1

Format	Color
Hex	45638F
RGB	69, 99, 143
RGB Percent	27%, 39%, 56%
CMY	0.7295, 0.6117, 0.4392
CMYK	0.52, 0.31, 0.00, 0.44
HSL	216°, 35%, 42%
HSV	216°, 52%, 56%
XYZ	11.8719, 12.1721, 27.7081
YIQ	95.0460, -32.0040, 7.3240

Conversions

Conversions Part 2

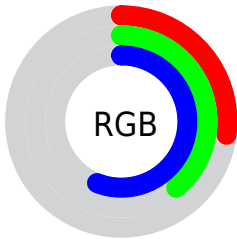
Format	Color
RYB	69, 90, 143
Decimal	4547471
CIELab	41.49, 2.14, -27.62
CIELCh	41, 27.705, 274.436
Yxy	12.1721, 0.2294, 0.2352
Android (android.graphics.Color)	4282737551 (0xFF45638F)
YUV	95.0460, 23.6413, -22.8423
Hunter-Lab	34.8885, -0.3146, -22.6655

Details

The Yxy color **12.1721, 0.2294, 0.2352** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **18.0689, 0.4111, 0.4059**, and the grayscale version is **11.4022, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.9815, 0.2499, 0.2583**, and **3.3834, 0.1923, 0.1954** is the 20% darker color. If you saturate the color by 10%, you get **10.1850, 0.2136, 0.2130**, and if you desaturate by 10%, it is **14.4555, 0.2459, 0.2565**.

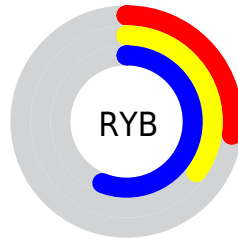
Distribution



Red (27%)

Green (39%)

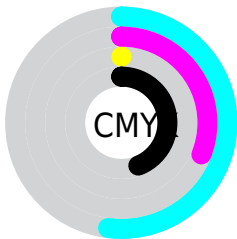
Blue (56%)



Red (27%)

Yellow (35%)

Blue (56%)

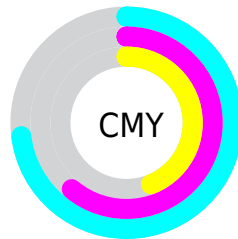


Cyan (52%)

Magenta (31%)

Yellow (0%)

Black (44%)



Cyan (73%)

Magenta (61%)

Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.1721, 0.2294, 0.2352 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 12.1721, 0.2294, 0.2352 by changing the saturation by 10% instead.

■ 12.1721, 0.2294,
0.2352

■ 12.1721, 0.2294,
0.2352

■ 205.5413, 0.2788,
0.2904

■ 6.8610, 0.2139,
0.2181

■ 29.8082, 0.2496,
0.2576

■ 3.3753, 0.1918,
0.1940

■ 42.9019, 0.2564,
0.2653

■ 1.3307, 0.1587,
0.1582

■ 59.3587, 0.2620,
0.2715

■ 0.1648, 0.0697,
0.0550

■ 79.5628, 0.2665,
0.2766

■ 0.0000, 0.0000,
0.0000

■ 103.8988, 0.2704,
0.2809

132.7509, 0.2736,

0.2845

166.5036, 0.2764,
0.2877

■ 12.1721, 0.2294,
0.2352

■ 12.1721, 0.2294,
0.2352

■ 10.1850, 0.2136,
0.2130

■ 14.4555, 0.2459,
0.2565

■ 8.4785, 0.1992,
0.1905

■ 17.0472, 0.2626,
0.2765

■ 7.0371, 0.1868,
0.1685

■ 19.9600, 0.2791,
0.2949

■ 5.8426, 0.1768,
0.1476

■ 23.2055, 0.2950,
0.3115

■ 5.0118, 0.1699,
0.1316

■ 26.7947, 0.3101,
0.3265

■ 30.7381, 0.3243,
0.3399

■ 35.0456, 0.3376,
0.3516

■ 39.7267, 0.3498,
0.3620

■ 44.7907, 0.3611,
0.3711

Harmonies

Analogous

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



12.1721, 0.2071, 0.2527



12.1721, 0.2294, 0.2352



12.1721, 0.2739, 0.2397

Triad

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



12.1721, 0.2294, 0.2352



12.1721, 0.4288, 0.3462



12.1721, 0.2842, 0.4113

Complementary

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



12.1721, 0.2294, 0.2352



18.0689, 0.4111, 0.4059

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.



12.1721, 0.3431, 0.4391



12.1721, 0.2294, 0.2352



12.1721, 0.4293, 0.3921

Square

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



12.1721, 0.2294, 0.2352



12.1721, 0.3925, 0.3008



12.1721, 0.3966, 0.4283



12.1721, 0.2358, 0.3536

Rectangle

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



12.1721, 0.2294, 0.2352



12.1721, 0.3128, 0.2535



12.1721, 0.3966, 0.4283



12.1721, 0.3034, 0.4249

Sweetspot

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



12.1725, 0.2294, 0.2352



38.8286, 0.2878, 0.3041



22.0807, 0.2710, 0.3934



8.6622, 0.2849, 0.3011



72.9347, 0.3127, 0.3290



11.2805, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.1725, 0.2294, 0.2352



17.7373, 0.2113, 0.2096



7.7371, 0.2237, 0.1731



5.5919, 0.2990, 0.3156



4.4710, 0.1701, 0.1325



0.0842, 0.1930, 0.2148

Inverse Universe

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



10.9928, 0.3946, 0.2762



16.2288, 0.4240, 0.2670



25.3764, 0.3785, 0.4534



5.4581, 0.3222, 0.3201



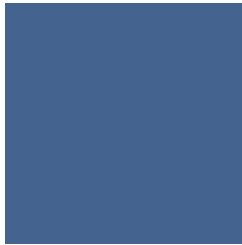
5.4377, 0.5293, 0.2689



0.0562, 0.4288, 0.2136

Previews

White Background



This preview shows how the Yxy color 12.1721, 0.2294, 0.2352 looks on a white background.

Color Contrast Check

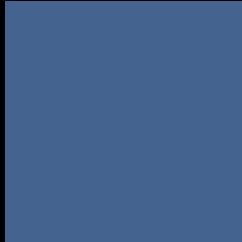
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.1721, 0.2294, 0.2352 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

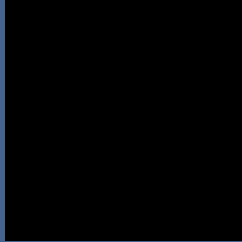
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

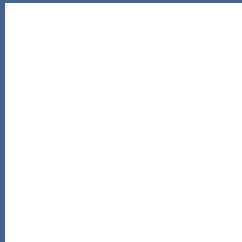
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 12.1721, 0.2294, 0.2352

Background



This preview shows how black text looks on a background with the Yxy color 12.1721, 0.2294, 0.2352.

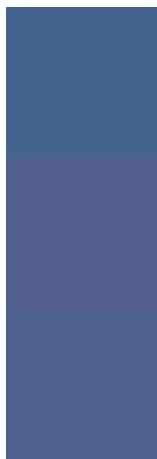


This preview shows how white text looks on a background with the Yxy color 12.1721, 0.2294, 0.2352.

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

12.1721, 0.2294, 0.2352

Protanopia

12.1278, 0.2435, 0.2352

Deuteranopia

12.1523, 0.2370, 0.2328



Tritanopia

12.2252, 0.2489, 0.3093

Trichromacy



Original Color

12.1721, 0.2294, 0.2352

Protanomaly

12.1221, 0.2379, 0.2345

Deuteranomaly

12.2144, 0.2345, 0.2343

Tritanomaly

12.2125, 0.2416, 0.2800

Monochromacy



Original Color

12.1721, 0.2294, 0.2352

Achromatopsia

11.4435, 0.3127, 0.3290

Achromatomaly

11.5140, 0.2776, 0.2920

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.1721, 0.2294, 0.2352 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(69, 99, 143)` looks like.

```
.text, #text, p{  
    color:rgb(69, 99, 143)  
}
```

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(69, 99, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 99, 143) }
```

Border

The CSS property to change the border of an element to Yxy 12.1721, 0.2294, 0.2352 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(69, 99, 143) }
```

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

```
.border{ border-color:rgb(69, 99, 143) }
```

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

Here you see how a box with a 4 pixel rgb(69, 99, 143) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 99, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 99, 143);  
box-shadow:4px 4px 4px 4px rgb(69, 99,  
143) }
```


Background

The CSS property to change the background color of an element to Yxy 12.1721, 0.2294, 0.2352 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 99, 143) }
```

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

```
.background{ background-color: rgb(69, 99,  
143) }
```

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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