

Converting Colors

$Y_{xy}(12.6758, 0.3066, 0.2233)$

Have a look what the booklet for
Yxy(12.6758, 0.3066, 0.2233)
contains.

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Color

Yxy(12.6470, 0.3059, 0.2230)

Conversions

Conversions Part 1

Format	Color
Hex	85508D
RGB	133, 80, 141
RGB Percent	52%, 31%, 55%
CMY	0.4784, 0.6863, 0.4471
CMYK	0.06, 0.43, 0.00, 0.45
HSL	292°, 28%, 43%
HSV	292°, 43%, 55%
XYZ	17.3485, 12.6470, 26.7175
YIQ	102.8010, 12.0070, 30.2070

Conversions

Conversions Part 2

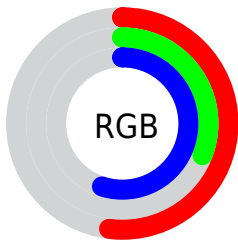
Format	Color
R_{YB}	133, 80, 141
Decimal	8736909
CIE Lab	42.23, 32.65, -24.82
CIE LCh	42, 41.012, 322.757
Yxy	12.6470, 0.3059, 0.2230
Android (android.graphics.Color)	4286926989 (0xFF85508D)
YUV	102.8010, 18.8321, 26.4845
Hunter-Lab	35.5626, 24.8430, -19.6496

Details

The Yxy color **12.6470, 0.3059, 0.2230** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **21.6963, 0.3145, 0.4551**, and the grayscale version is **13.4558, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.7375, 0.3083, 0.2464**, and **3.5822, 0.2980, 0.1814** is the 20% darker color. If you saturate the color by 10%, you get **10.6463, 0.3034, 0.2002**, and if you desaturate by 10%, it is **15.0846, 0.3080, 0.2474**.

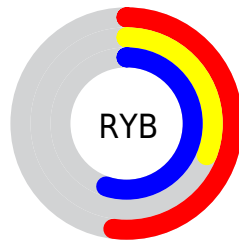
Distribution



Red (52%)

Green (31%)

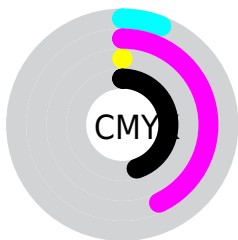
Blue (55%)



Red (52%)

Yellow (31%)

Blue (55%)

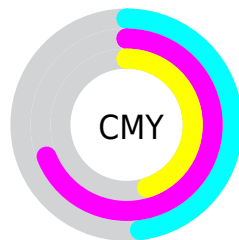


Cyan (6%)

Magenta (43%)

Yellow (0%)

Black (45%)



Cyan (48%)


Magenta (69%)

Yellow (45%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.6470, 0.3059, 0.2230 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 12.6470, 0.3059, 0.2230 by changing the saturation by 10% instead.


 12.6470, 0.3059,
0.2230


 12.6470, 0.3059,
0.2230


208.6428, 0.3117,
0.2824


 7.1859, 0.3032,
0.2059


 30.6681, 0.3088,
0.2462


 3.5786, 0.2986,
0.1826

 43.9970, 0.3096,
0.2544

 1.4408, 0.2900,
0.1495

 60.7172, 0.3102,
0.2612

 0.2465, 0.2816,
0.0664

 81.2132, 0.3107,
0.2668

 0.0000, 0.0000,
0.0000

 105.8694, 0.3110,
0.2716

135.0701, 0.3113,

0.2757

169.1998, 0.3115,
0.2792

■ 12.6470, 0.3059,
0.2230

■ 12.6470, 0.3059,
0.2230

■ 10.6463, 0.3034,
0.2002

■ 15.0846, 0.3080,
0.2474

■ 9.0536, 0.3006,
0.1799

■ 17.9824, 0.3098,
0.2724

■ 7.8389, 0.2976,
0.1630

■ 21.3641, 0.3113,
0.2973

■ 6.9676, 0.2944,
0.1500

■ 25.2512, 0.3124,
0.3214

■ 6.3984, 0.2911,
0.1412

■ 29.6638, 0.3133,
0.3444

■ 6.0999, 0.2888,
0.1365

■ 34.6211, 0.3139,
0.3659

■ 40.1413, 0.3143,
0.3858

■ 46.2416, 0.3145,
0.4040

■ 52.9386, 0.3146,
0.4206

Harmonies

Analogous

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



12.6470, 0.2292, 0.2007



12.6470, 0.3059, 0.2230



12.6470, 0.3970, 0.2661

Triad

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



12.6470, 0.3059, 0.2230



12.6470, 0.4512, 0.4465



12.6470, 0.1779, 0.3055

Complementary

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



12.6470, 0.3059, 0.2230



21.6963, 0.3145, 0.4551

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.



12.6470, 0.2247, 0.4019



12.6470, 0.3059, 0.2230



12.6470, 0.3821, 0.4890

Square

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



12.6470, 0.3059, 0.2230



12.6470, 0.4859, 0.3852



12.6470, 0.2994, 0.4784



12.6470, 0.1644, 0.2364

Rectangle

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



12.6470, 0.3059, 0.2230



12.6470, 0.4487, 0.3029



12.6470, 0.2994, 0.4784



12.6470, 0.1898, 0.3361

Sweetspot

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



12.6475, 0.3059, 0.2230



38.2536, 0.3113, 0.2972



10.6298, 0.2377, 0.2175



8.2603, 0.3110, 0.2923



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290

Same Dimension

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



12.6475, 0.3059, 0.2230



19.1154, 0.3034, 0.2005



12.7218, 0.3518, 0.2609



5.4758, 0.3118, 0.3072



5.5686, 0.2889, 0.1365



0.0597, 0.3057, 0.1458

Inverse Universe

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



12.1031, 0.4059, 0.3147



18.0735, 0.4402, 0.3120



21.7156, 0.2876, 0.4096



5.4349, 0.3262, 0.3261



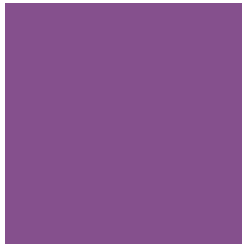
5.2060, 0.6188, 0.3183



0.0516, 0.5439, 0.2770

Previews

White Background



This preview shows how the Yxy color 12.6470, 0.3059, 0.2230 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 12.6470, 0.3059, 0.2230 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

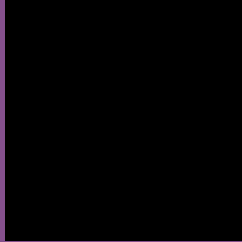
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.6470, 0.3059, 0.2230

Background



This preview shows how black text looks on a background with the Yxy color 12.6470, 0.3059, 0.2230.



This preview shows how white text looks on a background with the Yxy color 12.6470, 0.3059, 0.2230.

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

12.6470, 0.3059, 0.2230

Protanopia

12.7979, 0.2281, 0.2147

Deuteranopia

12.8045, 0.2536, 0.2498



Tritanopia

12.6874, 0.3619, 0.3153

Trichromacy



Original Color

12.6470, 0.3059, 0.2230

Protanomaly

12.3692, 0.2506, 0.2142

Deuteranomaly

12.4323, 0.2703, 0.2379

Tritanomaly

12.5150, 0.3406, 0.2775

Monochromacy



Original Color

12.6470, 0.3059, 0.2230

Achromatopsia

13.5633, 0.3127, 0.3290

Achromatomaly

13.0462, 0.3104, 0.2843

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.6470, 0.3059, 0.2230 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(133, 80, 141)` looks like.

```
.text, #text, p{  
    color:rgb(133, 80, 141)  
}
```

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(133, 80, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 80, 141) }
```

Border

The CSS property to change the border of an element to Yxy 12.6470, 0.3059, 0.2230 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(133, 80, 141) }
```

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

```
.border{ border-color:rgb(133, 80, 141) }
```

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

Here you see how a box with a 4 pixel rgb(133, 80, 141) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 80, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 80, 141);  
box-shadow:4px 4px 4px 4px rgb(133, 80,  
141) }
```


Background

The CSS property to change the background color of an element to Yxy 12.6470, 0.3059, 0.2230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 80, 141) }
```

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

```
.background{ background-color: rgb(133, 80,  
141) }
```

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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