

Converting Colors

$Y_{xy}(12.4770, 0.2855, 0.1720)$

Have a look what the booklet for
Yxy(12.4770, 0.2855, 0.1720)
contains.

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Color

Yxy(12.4770, 0.2855, 0.1720)

Conversions

Conversions Part 1

Format	Color
Hex	913FAA
RGB	145, 63, 170
RGB Percent	57%, 25%, 67%
CMY	0.4314, 0.7529, 0.3333
CMYK	0.15, 0.63, 0.00, 0.33
HSL	286°, 46%, 46%
HSV	286°, 63%, 67%
XYZ	20.7104, 12.4770, 39.3533
YIQ	99.7160, 14.5250, 50.6610

Conversions

Conversions Part 2

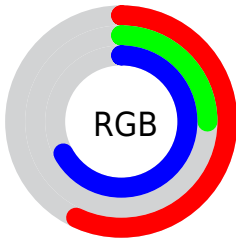
Format	Color
R _Y B	145, 63, 170
Decimal	9519018
CIE Lab	41.96, 51.03, -42.52
CIE LCh	42, 66.425, 320.194
Yxy	12.4770, 0.2855, 0.1720
Android (android.graphics.Color)	4287709098 (0xFF913FAA)
YUV	99.7160, 34.6500, 39.7141
Hunter-Lab	35.3228, 42.8428, -41.3294

Details

The Yxy color **12.4770, 0.2855, 0.1720** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **31.1891, 0.3206, 0.5181**, and the grayscale version is **12.5760, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.3993, 0.2938, 0.2027**, and **3.5085, 0.2674, 0.1247** is the 20% darker color. If you saturate the color by 10%, you get **10.5215, 0.2794, 0.1529**, and if you desaturate by 10%, it is **15.0276, 0.2913, 0.1944**.

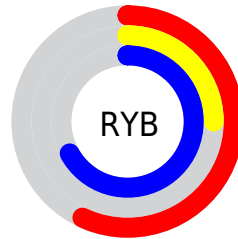
Distribution



Red (57%)

Green (25%)

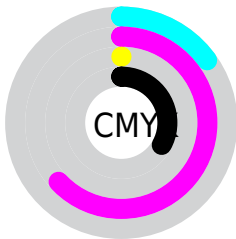
Blue (67%)



Red (57%)

Yellow (25%)

Blue (67%)

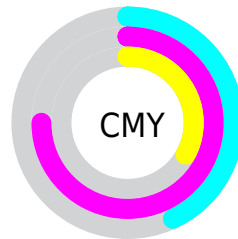


Cyan (15%)

Magenta (63%)

Yellow (0%)

Black (33%)



Cyan (43%)


Magenta (75%)

Yellow (33%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.4770, 0.2855, 0.1720 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 12.4770, 0.2855, 0.1720 by changing the saturation by 10% instead.


 12.4770, 0.2855,
0.1720

 12.4770, 0.2855,
0.1720


207.5381, 0.3049,
0.2547


 7.0694, 0.2782,
0.1510


 30.3609, 0.2943,
0.2026


 3.5055, 0.2671,
0.1245


 43.6061, 0.2970,
0.2140


 1.4010, 0.2492,
0.0909

 60.2325, 0.2991,
0.2235

 0.2175, 0.2229,
0.0301

 80.6246, 0.3008,
0.2316

 0.0000, 0.1417,
0.0000

 105.1669, 0.3022,
0.2386

 0.0000, 0.0000,
0.0000

134.2436, 0.3033,

0.2447

168.2392, 0.3042,
0.2500

■ 12.4770, 0.2855,
0.1720

■ 12.4770, 0.2855,
0.1720

■ 10.5215, 0.2794,
0.1529

■ 15.0276, 0.2913,
0.1944

■ 9.1038, 0.2732,
0.1380

■ 18.2203, 0.2966,
0.2192

■ 8.1580, 0.2670,
0.1276

■ 22.0992, 0.3014,
0.2452

■ 7.6696, 0.2627,
0.1221

■ 26.7039, 0.3055,
0.2715

■ 32.0712, 0.3090,
0.2973

■ 38.2350, 0.3120,
0.3220

■ 45.2276, 0.3143,
0.3452

■ 53.0791, 0.3163,
0.3668

■ 61.8183, 0.3178,
0.3865

Harmonies

Analogous

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



12.4770, 0.1793, 0.1450



12.4770, 0.2855, 0.1720



12.4770, 0.4329, 0.2266

Triad

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



12.4770, 0.2855, 0.1720



12.4770, 0.5110, 0.4708



12.4770, 0.1173, 0.2920

Complementary

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



12.4770, 0.2855, 0.1720



31.1891, 0.3206, 0.5181

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.



12.4770, 0.1784, 0.4670



12.4770, 0.2855, 0.1720



12.4770, 0.4027, 0.5656

Square

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



12.4770, 0.2855, 0.1720



12.4770, 0.5746, 0.3773



12.4770, 0.2842, 0.5933



12.4770, 0.1025, 0.1888

Rectangle

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



12.4770, 0.2855, 0.1720



12.4770, 0.5220, 0.2735



12.4770, 0.2842, 0.5933



12.4770, 0.1318, 0.3445

Sweetspot

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



12.4775, 0.2855, 0.1720



51.7831, 0.3069, 0.2809



11.2309, 0.2032, 0.1763



10.9674, 0.3058, 0.2736



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

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



12.4775, 0.2855, 0.1720



17.8320, 0.2766, 0.1458



14.0940, 0.3590, 0.2168



7.5769, 0.3102, 0.3065



5.6671, 0.2634, 0.1224



0.1589, 0.2835, 0.1335

Inverse Universe

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



12.8079, 0.4617, 0.2939



18.8588, 0.5179, 0.2931



30.5453, 0.2882, 0.4821



7.5700, 0.3250, 0.3237



6.4054, 0.5939, 0.3045



0.1634, 0.5062, 0.2562

Previews

White Background



This preview shows how the Yxy color 12.4770, 0.2855, 0.1720 looks on a white background.

Color Contrast Check

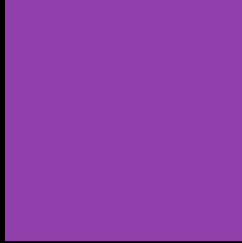
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.4770, 0.2855, 0.1720 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

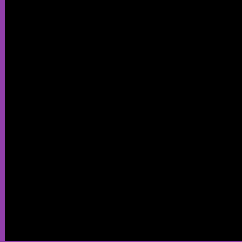
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.4770, 0.2855, 0.1720

Background



This preview shows how black text looks on a background with the Yxy color 12.4770, 0.2855, 0.1720.



This preview shows how white text looks on a background with the Yxy color 12.4770, 0.2855, 0.1720.

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

12.4770, 0.2855, 0.1720

Protanopia

12.7877, 0.1762, 0.1485

Deuteranopia

12.6885, 0.2090, 0.2044



Tritanopia

12.4966, 0.3837, 0.3177

Trichromacy



Original Color

12.4770, 0.2855, 0.1720



Protanomaly

11.1590, 0.1913, 0.1460



Deuteranomaly

11.7432, 0.2273, 0.1840



Tritanomaly

12.2081, 0.3454, 0.2540

Monochromacy



Original Color

12.4770, 0.2855, 0.1720



Achromatopsia

12.7438, 0.3127, 0.3290



Achromatomaly

12.0101, 0.3027, 0.2540

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4770, 0.2855, 0.1720 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(145, 63, 170)` looks like.

```
.text, #text, p{  
  color:rgb(145, 63, 170)  
}
```

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(145, 63, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 63, 170) }
```

Border

The CSS property to change the border of an element to Yxy 12.4770, 0.2855, 0.1720 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(145, 63, 170) }
```

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

```
.border{ border-color:rgb(145, 63, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(145, 63, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 63, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 63, 170);  
box-shadow:4px 4px 4px 4px rgb(145, 63,  
170) }
```


Background

The CSS property to change the background color of an element to Yxy 12.4770, 0.2855, 0.1720 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 63, 170) }
```

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

```
.background{ background-color: rgb(145, 63,  
170) }
```

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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