

Converting Colors

$Y_{xy}(12.8821, 0.2532, 0.1703)$

Have a look what the booklet for
Yxy(12.8821, 0.2532, 0.1703)
contains.

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Color

Yxy(12.8821, 0.2532, 0.1703)

Conversions

Conversions Part 1

Format	Color
Hex	7D4DB2
RGB	125, 77, 178
RGB Percent	49%, 30%, 70%
CMY	0.5097, 0.6981, 0.3019
CMYK	0.30, 0.57, 0.00, 0.30
HSL	269°, 40%, 50%
HSV	269°, 57%, 70%
XYZ	19.1530, 12.8821, 43.6085
YIQ	102.8660, -3.8130, 41.5870

Conversions

Conversions Part 2

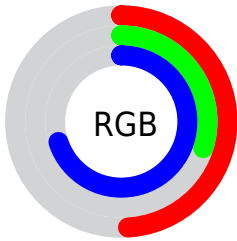
Format	Color
R_{YB}	125, 77, 178
Decimal	8211890
CIE _{Lab}	42.59, 40.61, -46.41
CIE _{LCh}	43, 61.675, 311.187
Yxy	12.8821, 0.2532, 0.1703
Android (android.graphics.Color)	4286401970 (0xFF7D4DB2)
YUV	102.8660, 37.0411, 19.4115
Hunter-Lab	35.8916, 32.4431, -46.9135

Details

The Yxy color **12.8821, 0.2532, 0.1703** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **37.1283, 0.3465, 0.4861**, and the grayscale version is **13.4274, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0822, 0.2685, 0.2017**, and **3.6889, 0.2246, 0.1220** is the 20% darker color. If you saturate the color by 10%, you get **10.0538, 0.2396, 0.1436**, and if you desaturate by 10%, it is **16.4589, 0.2663, 0.1992**.

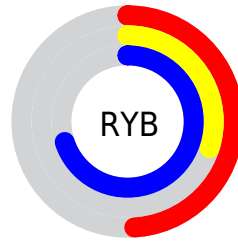
Distribution



Red (49%)

Green (30%)

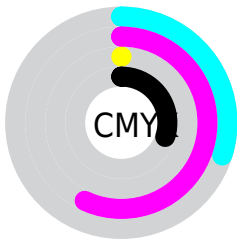
Blue (70%)



Red (49%)

Yellow (30%)

Blue (70%)

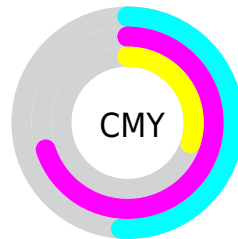


Cyan (30%)

Magenta (57%)

Yellow (0%)

Black (30%)



Cyan (51%)


Magenta (70%)

Yellow (30%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8821, 0.2532, 0.1703 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 12.8821, 0.2532, 0.1703 by changing the saturation by 10% instead.


 12.8821, 0.2532,
0.1703


 12.8821, 0.2532,
0.1703


210.1607, 0.2903,
0.2540

 7.3474, 0.2413,
0.1492


 31.0918, 0.2686,
0.2012


 3.6803, 0.2244,
0.1226


 44.5356, 0.2738,
0.2127


 1.4964, 0.1994,
0.0892

 61.3846, 0.2780,
0.2224

 0.2862, 0.1632,
0.0349

 82.0231, 0.2814,
0.2306

 0.0000, 0.0634,
0.0000

 106.8356, 0.2842,
0.2377

 0.0000, 0.0000,
0.0000

136.2064, 0.2865,

0.2438

170.5200, 0.2886,
0.2492

■ 12.8821, 0.2532,
0.1703

■ 12.8821, 0.2532,
0.1703

■ 10.0538, 0.2396,
0.1436

■ 16.4589, 0.2663,
0.1992

■ 7.9138, 0.2260,
0.1206

■ 20.8353, 0.2785,
0.2290

■ 6.3942, 0.2131,
0.1026

■ 26.0592, 0.2896,
0.2583

■ 5.4005, 0.2015,
0.0900

■ 32.1743, 0.2993,
0.2863

■ 5.1314, 0.1979,
0.0864

■ 39.2215, 0.3077,
0.3125

■ 47.2386, 0.3149,
0.3366

■ 56.2618, 0.3210,
0.3584

■ 66.3250, 0.3261,
0.3780

■ 77.4607, 0.3303,
0.3956

Harmonies

Analogous

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



12.8821, 0.1669, 0.1528



12.8821, 0.2532, 0.1703



12.8821, 0.3822, 0.2155

Triad

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



12.8821, 0.2532, 0.1703



12.8821, 0.5245, 0.4396



12.8821, 0.1421, 0.3400

Complementary

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



12.8821, 0.2532, 0.1703



37.1283, 0.3465, 0.4861

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.



12.8821, 0.2164, 0.5010



12.8821, 0.2532, 0.1703



12.8821, 0.4343, 0.5286

Square

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



12.8821, 0.2532, 0.1703



12.8821, 0.5612, 0.3559



12.8821, 0.3240, 0.5768



12.8821, 0.1144, 0.2213

Rectangle

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



12.8821, 0.2532, 0.1703



12.8821, 0.4720, 0.2578



12.8821, 0.3240, 0.5768



12.8821, 0.1615, 0.3935

Sweetspot

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



12.8826, 0.2532, 0.1703



57.6958, 0.2988, 0.2849



20.9892, 0.2249, 0.2459



12.2716, 0.2970, 0.2794



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290

Same Dimension

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



12.8826, 0.2532, 0.1703



17.1796, 0.2363, 0.1376



17.5938, 0.3146, 0.1957



8.4217, 0.3057, 0.3060



3.7075, 0.1991, 0.0870



0.1515, 0.2313, 0.1048

Inverse Universe

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



16.3828, 0.3890, 0.2545



24.5302, 0.4151, 0.2433



34.1060, 0.3065, 0.5074



8.5772, 0.3208, 0.3171



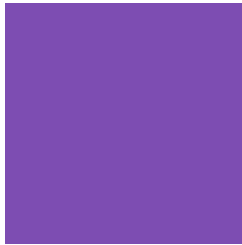
7.3548, 0.4827, 0.2433



0.2431, 0.4261, 0.2121

Previews

White Background



This preview shows how the Yxy color 12.8821, 0.2532, 0.1703 looks on a white background.

Color Contrast Check

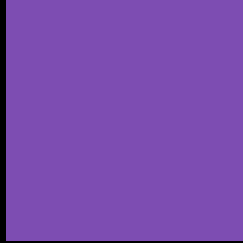
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.8821, 0.2532, 0.1703 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

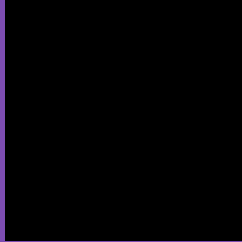
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8821, 0.2532, 0.1703

Background



This preview shows how black text looks on a background with the Yxy color 12.8821, 0.2532, 0.1703.



This preview shows how white text looks on a background with the Yxy color 12.8821, 0.2532, 0.1703.

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

12.8821, 0.2532, 0.1703

Protanopia

13.0480, 0.1821, 0.1551

Deuteranopia

13.1007, 0.1977, 0.1930



Tritanopia

12.9284, 0.3239, 0.3142

Trichromacy



Original Color

12.8821, 0.2532, 0.1703

Protanomaly

12.3029, 0.1965, 0.1565

Deuteranomaly

12.4197, 0.2104, 0.1796

Tritanomaly

12.6640, 0.2947, 0.2495

Monochromacy



Original Color

12.8821, 0.2532, 0.1703

Achromatopsia

13.5633, 0.3127, 0.3290

Achromatomaly

12.9966, 0.2892, 0.2576

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8821, 0.2532, 0.1703 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(125, 77, 178)` looks like.

```
.text, #text, p{  
  color:rgb(125, 77, 178)  
}
```

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(125, 77, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(125, 77, 178) }
```

Border

The CSS property to change the border of an element to Yxy 12.8821, 0.2532, 0.1703 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(125, 77, 178) }
```

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

```
.border{ border-color:rgb(125, 77, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(125, 77, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(125, 77, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(125, 77, 178);  
box-shadow:4px 4px 4px 4px rgb(125, 77,  
178) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8821, 0.2532, 0.1703 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(125, 77, 178) }
```

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

```
.background{ background-color: rgb(125, 77,  
178) }
```

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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