

Converting Colors

$Y_{xy}(12.8122, 0.2519, 0.1704)$

Have a look what the booklet for
Yxy(12.8122, 0.2519, 0.1704)
contains.

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Color

Yxy(12.8072, 0.2520, 0.1699)

Conversions

Conversions Part 1

Format	Color
Hex	7C4DB2
RGB	124, 77, 178
RGB Percent	49%, 30%, 70%
CMY	0.5139, 0.6979, 0.3021
CMYK	0.30, 0.57, 0.00, 0.30
HSL	268°, 40%, 50%
HSV	268°, 57%, 70%
XYZ	18.9960, 12.8072, 43.5776
YIQ	102.5670, -4.4090, 41.3750

Conversions

Conversions Part 2

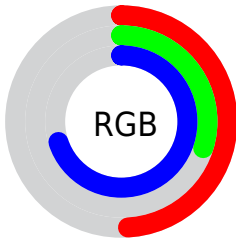
Format	Color
R_{YB}	124, 77, 178
Decimal	8146354
CIE _{Lab}	42.47, 40.30, -46.58
CIE _{LCh}	42, 61.592, 310.869
Yxy	12.8072, 0.2520, 0.1699
Android (android.graphics.Color)	4286336434 (0xFF7C4DB2)
YUV	102.5670, 37.1885, 18.7967
Hunter-Lab	35.7871, 32.1210, -47.1458

Details

The Yxy color **12.8072, 0.2520, 0.1699** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **37.1962, 0.3475, 0.4855**, and the grayscale version is **13.3457, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.9626, 0.2677, 0.2014**, and **3.6615, 0.2216, 0.1217** is the 20% darker color. If you saturate the color by 10%, you get **9.9723, 0.2381, 0.1430**, and if you desaturate by 10%, it is **16.3929, 0.2654, 0.1990**.

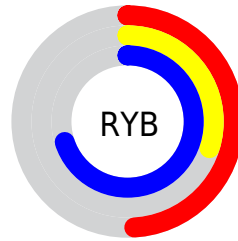
Distribution



Red (49%)

Green (30%)

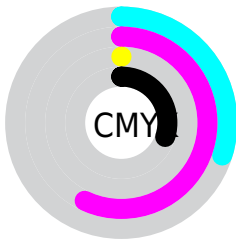
Blue (70%)



Red (49%)

Yellow (30%)

Blue (70%)

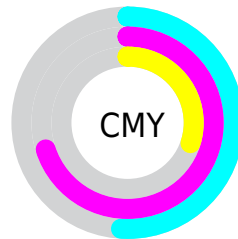


Cyan (30%)

Magenta (57%)

Yellow (0%)

Black (30%)



Cyan (51%)


Magenta (70%)

Yellow (30%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8072, 0.2520, 0.1699 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 12.8072, 0.2520, 0.1699 by changing the saturation by 10% instead.


 12.8072, 0.2520,
0.1699


 12.8072, 0.2520,
0.1699


209.6783, 0.2898,
0.2538


 7.2959, 0.2399,
0.1487


 30.9570, 0.2677,
0.2009


 3.6478, 0.2227,
0.1220


 44.3643, 0.2730,
0.2125

 1.4786, 0.1974,
0.0886

 61.1723, 0.2772,
0.2222

 0.2736, 0.1609,
0.0336

 81.7656, 0.2807,
0.2304

 0.0000, 0.0579,
0.0000

 106.5284, 0.2835,
0.2375

 0.0000, 0.0000,
0.0000

135.8452, 0.2860,

0.2437

170.1004, 0.2880,
0.2491

■ 12.8072, 0.2520,
0.1699

■ 12.8072, 0.2520,
0.1699

■ 9.9723, 0.2381,
0.1430

■ 16.3929, 0.2654,
0.1990

■ 7.8278, 0.2244,
0.1198

■ 20.7805, 0.2778,
0.2289

■ 6.3060, 0.2113,
0.1016

■ 26.0180, 0.2891,
0.2583

■ 5.3126, 0.1996,
0.0889

■ 32.1493, 0.2990,
0.2864

■ 5.0411, 0.1960,
0.0853

■ 39.2150, 0.3076,
0.3126

■ 47.2534, 0.3150,
0.3366

■ 56.3003, 0.3212,
0.3584

■ 66.3901, 0.3264,
0.3780

■ 77.5551, 0.3308,
0.3955

Harmonies

Analogous

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



12.8072, 0.1662, 0.1527



12.8072, 0.2520, 0.1699



12.8072, 0.3808, 0.2148

Triad

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



12.8072, 0.2520, 0.1699



12.8072, 0.5253, 0.4386



12.8072, 0.1425, 0.3416

Complementary

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



12.8072, 0.2520, 0.1699



37.1962, 0.3475, 0.4855

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.



12.8072, 0.2174, 0.5027



12.8072, 0.2520, 0.1699



12.8072, 0.4355, 0.5278

Square

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



12.8072, 0.2520, 0.1699



12.8072, 0.5613, 0.3551



12.8072, 0.3252, 0.5770



12.8072, 0.1144, 0.2222

Rectangle

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



12.8072, 0.2520, 0.1699



12.8072, 0.4708, 0.2571



12.8072, 0.3252, 0.5770



12.8072, 0.1621, 0.3953

Sweetspot

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



12.8077, 0.2520, 0.1699



57.6335, 0.2985, 0.2848



21.4445, 0.2256, 0.2491



12.2564, 0.2966, 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.



12.8077, 0.2520, 0.1699



17.0216, 0.2347, 0.1369



17.4014, 0.3125, 0.1949



8.4173, 0.3055, 0.3060



3.6447, 0.1971, 0.0860



0.1495, 0.2296, 0.1038

Inverse Universe

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



16.4138, 0.3872, 0.2531



24.5882, 0.4126, 0.2416



34.1649, 0.3076, 0.5066



8.5787, 0.3206, 0.3169



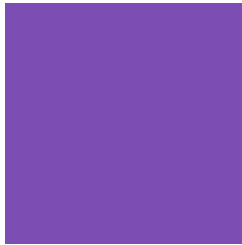
7.3794, 0.4783, 0.2408



0.2438, 0.4233, 0.2105

Previews

White Background



This preview shows how the Yxy color 12.8072, 0.2520, 0.1699 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 12.8072, 0.2520, 0.1699 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

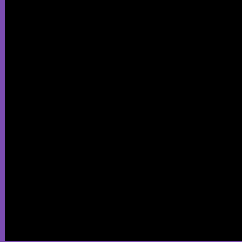
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8072, 0.2520, 0.1699

Background



This preview shows how black text looks on a background with the Yxy color 12.8072, 0.2520, 0.1699.



This preview shows how white text looks on a background with the Yxy color 12.8072, 0.2520, 0.1699.

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

12.8072, 0.2520, 0.1699

Protanopia

13.0480, 0.1821, 0.1551

Deuteranopia

13.0778, 0.1973, 0.1929



Tritanopia

12.8639, 0.3224, 0.3141

Trichromacy



Original Color

12.8072, 0.2520, 0.1699

Protanomaly

12.3029, 0.1965, 0.1565

Deuteranomaly

12.3797, 0.2097, 0.1793

Tritanomaly

12.5959, 0.2933, 0.2492

Monochromacy



Original Color

12.8072, 0.2520, 0.1699

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 12.8072, 0.2520, 0.1699 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(124, 77, 178)` looks like.

```
.text, #text, p{  
  color:rgb(124, 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(124, 77, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 77, 178) }
```

Border

The CSS property to change the border of an element to Yxy 12.8072, 0.2520, 0.1699 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(124, 77, 178) }
```

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

```
.border{ border-color:rgb(124, 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(124, 77, 178) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(124, 77, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(124, 77, 178);  
box-shadow:4px 4px 4px 4px rgb(124, 77,  
178) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8072, 0.2520, 0.1699 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 77, 178) }
```

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

```
.background{ background-color: rgb(124, 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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