

Converting Colors

$Y_{xy}(12.3090, 0.2525, 0.1684)$

Have a look what the booklet for
Yxy(12.3090, 0.2525, 0.1684)
contains.

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Color

Yxy(12.3777, 0.2524, 0.1687)

Conversions

Conversions Part 1

Format	Color
Hex	7B4BB0
RGB	123, 75, 176
RGB Percent	48%, 29%, 69%
CMY	0.5176, 0.7058, 0.3099
CMYK	0.30, 0.57, 0.00, 0.31
HSL	269°, 40%, 49%
HSV	269°, 57%, 69%
XYZ	18.5189, 12.3777, 42.4745
YIQ	100.8660, -3.8130, 41.5870

Conversions

Conversions Part 2

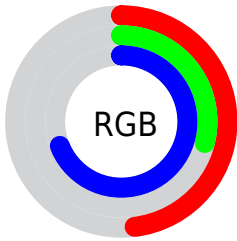
Format	Color
R_{YB}	123, 75, 176
Decimal	8080304
CIE _{Lab}	41.81, 40.68, -46.46
CIE _{LCh}	42, 61.756, 311.206
Yxy	12.3777, 0.2524, 0.1687
Android (android.graphics.Color)	4286270384 (0xFF7B4BB0)
YUV	100.8660, 37.0411, 19.4115
Hunter-Lab	35.1820, 32.3893, -46.9523

Details

The Yxy color **12.3777, 0.2524, 0.1687** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **36.1372, 0.3467, 0.4876**, and the grayscale version is **12.8819, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.2129, 0.2681, 0.2006**, and **3.4709, 0.2230, 0.1197** is the 20% darker color. If you saturate the color by 10%, you get **9.6627, 0.2388, 0.1422**, and if you desaturate by 10%, it is **15.8180, 0.2656, 0.1975**.

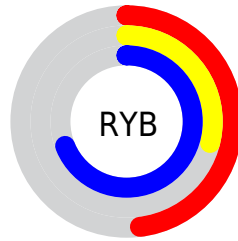
Distribution



Red (48%)

Green (29%)

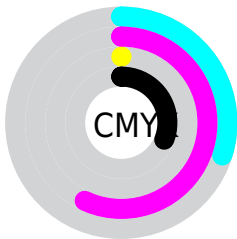
Blue (69%)



Red (48%)

Yellow (29%)

Blue (69%)

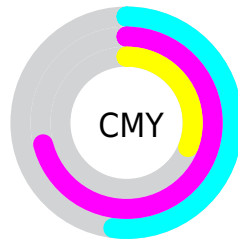


Cyan (30%)

Magenta (57%)

Yellow (0%)

Black (31%)



Cyan (52%)

Magenta (71%)

Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.3777, 0.2524, 0.1687 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 12.3777, 0.2524, 0.1687 by changing the saturation by 10% instead.

12.3777, 0.2524,
0.1687

12.3777, 0.2524,
0.1687

206.8900, 0.2902,
0.2536

7.0015, 0.2402,
0.1472

30.1812, 0.2682,
0.2001

3.4630, 0.2228,
0.1201

43.3772, 0.2734,
0.2118

1.3780, 0.1970,
0.0862

59.9486, 0.2777,
0.2216

0.2004, 0.1603,
0.0261

80.2797, 0.2811,
0.2299

0.0000, 0.0429,
0.0000

104.7550, 0.2840,
0.2371

0.0000, 0.0000,
0.0000

133.7589, 0.2864,

0.2433

167.6758, 0.2884,
0.2488

■ 12.3777, 0.2524,
0.1687

■ 12.3777, 0.2524,
0.1687

■ 9.6627, 0.2388,
0.1422

■ 15.8180, 0.2656,
0.1975

■ 7.6139, 0.2252,
0.1194

■ 20.0335, 0.2778,
0.2272

■ 6.1649, 0.2124,
0.1017

■ 25.0712, 0.2889,
0.2566

■ 5.2156, 0.2008,
0.0893

■ 30.9736, 0.2987,
0.2847

■ 5.0021, 0.1980,
0.0864

■ 37.7806, 0.3072,
0.3110

■ 45.5293, 0.3145,
0.3351

■ 54.2547, 0.3207,
0.3571

■ 63.9901, 0.3258,
0.3768

■ 74.7672, 0.3301,
0.3945

Harmonies

Analogous

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



12.3777, 0.1653, 0.1511



12.3777, 0.2524, 0.1687



12.3777, 0.3832, 0.2142

Triad

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



12.3777, 0.2524, 0.1687



12.3777, 0.5264, 0.4398



12.3777, 0.1400, 0.3397

Complementary

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



12.3777, 0.2524, 0.1687



36.1372, 0.3467, 0.4876

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.



12.3777, 0.2147, 0.5039



12.3777, 0.2524, 0.1687



12.3777, 0.4349, 0.5306

Square

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



12.3777, 0.2524, 0.1687



12.3777, 0.5643, 0.3555



12.3777, 0.3233, 0.5806



12.3777, 0.1124, 0.2197

Rectangle

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



12.3777, 0.2524, 0.1687



12.3777, 0.4743, 0.2569



12.3777, 0.3233, 0.5806



12.3777, 0.1595, 0.3942

Sweetspot

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



12.3782, 0.2524, 0.1687



56.2821, 0.2988, 0.2849



20.2931, 0.2241, 0.2449



11.7181, 0.2970, 0.2795



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



12.3782, 0.2524, 0.1687



16.3592, 0.2349, 0.1353



17.0070, 0.3146, 0.1946



8.4216, 0.3057, 0.3060



3.7056, 0.1990, 0.0870



0.1514, 0.2312, 0.1047

Inverse Universe

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



15.8188, 0.3901, 0.2538



23.6061, 0.4172, 0.2427



33.1849, 0.3064, 0.5093



8.5773, 0.3208, 0.3171



7.3556, 0.4826, 0.2432



0.2431, 0.4260, 0.2121

Previews

White Background



This preview shows how the Yxy color 12.3777, 0.2524, 0.1687 looks on a white background.

Color Contrast Check

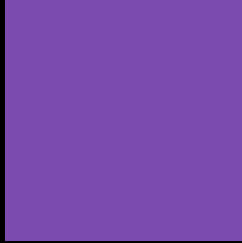
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.3777, 0.2524, 0.1687 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

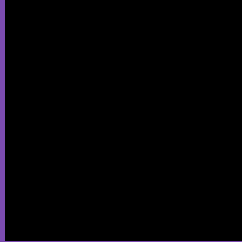
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.3777, 0.2524, 0.1687

Background



This preview shows how black text looks on a background with the Yxy color 12.3777, 0.2524, 0.1687.



This preview shows how white text looks on a background with the Yxy color 12.3777, 0.2524, 0.1687.

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

12.3777, 0.2524, 0.1687

Protanopia

12.5069, 0.1804, 0.1531

Deuteranopia

12.5682, 0.1963, 0.1912



Tritanopia

12.3949, 0.3241, 0.3140

Trichromacy



Original Color

12.3777, 0.2524, 0.1687

Protanomaly

11.7436, 0.1942, 0.1542

Deuteranomaly

11.8770, 0.2085, 0.1775

Tritanomaly

12.1418, 0.2944, 0.2484

Monochromacy



Original Color

12.3777, 0.2524, 0.1687

Achromatopsia

13.0136, 0.3127, 0.3290

Achromatomaly

12.4640, 0.2888, 0.2566

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.3777, 0.2524, 0.1687 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(123, 75, 176)` looks like.

```
.text, #text, p{  
    color:rgb(123, 75, 176)  
}
```

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(123, 75, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 75, 176) }
```

Border

The CSS property to change the border of an element to Yxy 12.3777, 0.2524, 0.1687 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(123, 75, 176) }
```

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

```
.border{ border-color:rgb(123, 75, 176) }
```

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

Here you see how a box with a 4 pixel rgb(123, 75, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 75, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 75, 176);  
box-shadow:4px 4px 4px 4px rgb(123, 75,  
176) }
```


Background

The CSS property to change the background color of an element to Yxy 12.3777, 0.2524, 0.1687 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 75, 176) }
```

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

```
.background{ background-color: rgb(123, 75,  
176) }
```

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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