

Converting Colors

$Y_{xy}(12.4015, 0.2016, 0.0999)$

Have a look what the booklet for
Yxy(12.4015, 0.2016, 0.0999)
contains.

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Color

Yxy(12.4015, 0.2016, 0.0999)

Conversions

Conversions Part 1

Format	Color
Hex	782DF4
RGB	120, 45, 244
RGB Percent	47%, 18%, 96%
CMY	0.5292, 0.8239, 0.0429
CMYK	0.51, 0.82, 0.00, 0.04
HSL	263°, 90%, 57%
HSV	263°, 82%, 96%
XYZ	25.0265, 12.4015, 86.7112
YIQ	90.1110, -19.1790, 77.7890

Conversions

Conversions Part 2

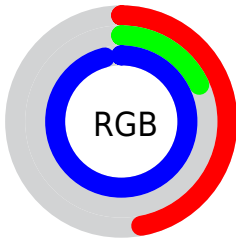
Format	Color
R_{YB}	120, 45, 244
Decimal	7876084
CIE _{Lab}	41.85, 71.13, -85.65
CIE _{LCh}	42, 111.332, 309.710
Yxy	12.4015, 0.2016, 0.0999
Android (android.graphics.Color)	4286066164 (0xFF782DF4)
YUV	90.1110, 75.8673, 26.2127
Hunter-Lab	35.2158, 65.2253, -121.3377

Details

The Yxy color **12.4015, 0.2016, 0.0999** is a dark color, and the websafe version is hex **6633FF**. The color can be described as middle washed purple. A complement of this color would be **73.3505, 0.3601, 0.5371**, and the grayscale version is **10.0726, 0.3127, 0.3290**.

A 20% lighter version of the original color is **26.7900, 0.2540, 0.1607**, and **4.1981, 0.1659, 0.0688** is the 20% darker color. If you saturate the color by 10%, you get **10.0484, 0.1885, 0.0845**, and if you desaturate by 10%, it is **16.0012, 0.2165, 0.1215**.

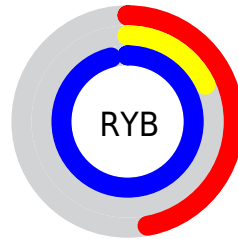
Distribution



Red (47%)

Green (18%)

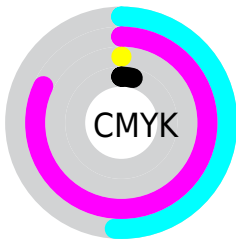
Blue (96%)



Red (47%)

Yellow (18%)

Blue (96%)

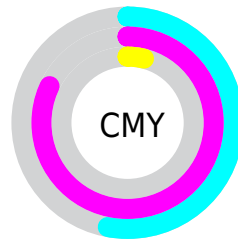


Cyan (51%)

Magenta (82%)

Yellow (0%)

Black (4%)



Cyan (53%)


Magenta (82%)


Yellow (4%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.4015, 0.2016, 0.0999 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 12.4015, 0.2016, 0.0999 by changing the saturation by 10% instead.


 12.4015, 0.2016,
0.0999

 12.4015, 0.2016,
0.0999

207.0455, 0.2663,
0.2040


 7.0177, 0.1845,
0.0798


 30.2243, 0.2263,
0.1337


 3.4732, 0.1629,
0.0579


 43.4321, 0.2353,
0.1477


 1.3835, 0.1355,
0.0353

 60.0167, 0.2428,
0.1600

 0.2045, 0.1022,
0.0085

 80.3625, 0.2491,
0.1709

 0.0000, 0.0621,
0.0000

 104.8539, 0.2544,
0.1806

 0.0000, 0.0000,
0.0000

 133.8752, 0.2590,

0.1893

167.8110, 0.2629,
0.1970

■ 12.4015, 0.2016,
0.0999

■ 12.4015, 0.2016,
0.0999

■ 10.0484, 0.1885,
0.0845

■ 16.0012, 0.2165,
0.1215

■ 8.8163, 0.1793,
0.0761

■ 21.0162, 0.2323,
0.1481

■ 27.5884, 0.2483,
0.1780

■ 35.8416, 0.2636,
0.2094

■ 45.8871, 0.2778,
0.2409

■ 57.8260, 0.2905,
0.2711

■ 71.7520, 0.3017,
0.2993

■ 87.7522, 0.3113,
0.3251

■ 99.3154, 0.3191,
0.3395

Harmonies

Analogous

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



12.4015, 0.0963, 0.0815



12.4015, 0.2016, 0.0999



12.4015, 0.4100, 0.1510

Triad

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



12.4015, 0.2016, 0.0999



12.4015, 0.5941, 0.4059



12.4015, 0.0557, 0.3340

Complementary

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



12.4015, 0.2016, 0.0999



73.3505, 0.3601, 0.5371

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.



12.4015, 0.1298, 0.6957



12.4015, 0.2016, 0.0999



12.4015, 0.4291, 0.5709

Square

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



12.4015, 0.2016, 0.0999



12.4015, 0.6962, 0.3021



12.4015, 0.2576, 0.7424



12.4015, 0.0399, 0.1483

Rectangle

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



12.4015, 0.2016, 0.0999



12.4015, 0.5772, 0.2006



12.4015, 0.2576, 0.7424



12.4015, 0.0722, 0.4481

Sweetspot

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



12.4018, 0.2016, 0.0999



60.4505, 0.2875, 0.2638



36.2297, 0.2010, 0.2276



11.9184, 0.2830, 0.2531



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



12.4018, 0.2016, 0.0999



10.0067, 0.1811, 0.0778



23.2337, 0.2933, 0.1480



16.2314, 0.3038, 0.3049



4.8631, 0.1809, 0.0770



0.4843, 0.1947, 0.0846

Inverse Universe

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



23.9737, 0.4162, 0.2197



23.9329, 0.4445, 0.2230



66.2837, 0.3080, 0.5756



16.6561, 0.3196, 0.3144



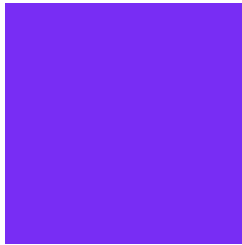
11.7164, 0.4449, 0.2225



1.0497, 0.4252, 0.2116

Previews

White Background



This preview shows how the Yxy color 12.4015, 0.2016, 0.0999 looks on a white background.

Color Contrast Check

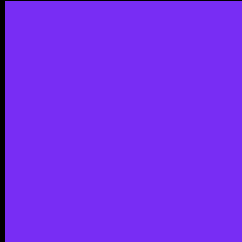
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.4015, 0.2016, 0.0999 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

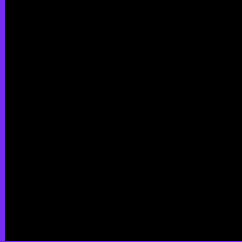
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

Yxy 12.4015, 0.2016, 0.0999

Background



This preview shows how black text looks on a background with the Yxy color 12.4015, 0.2016, 0.0999.



This preview shows how white text looks on a background with the Yxy color 12.4015, 0.2016, 0.0999.

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

12.4015, 0.2016, 0.0999

Protanopia

12.3545, 0.1746, 0.1486

Deuteranopia

12.2859, 0.1857, 0.1886



Tritanopia

12.3779, 0.2747, 0.3102

Trichromacy



Original Color

12.4015, 0.2016, 0.0999

Protanomaly

10.8011, 0.1728, 0.1160

Deuteranomaly

10.4975, 0.1786, 0.1322

Tritanomaly

10.8210, 0.2363, 0.1837

Monochromacy



Original Color

12.4015, 0.2016, 0.0999

Achromatopsia

10.2242, 0.3127, 0.3290

Achromatomaly

9.7396, 0.2543, 0.1905

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4015, 0.2016, 0.0999 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(120, 45, 244)` looks like.

```
.text, #text, p{  
    color:rgb(120, 45, 244)  
}
```

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(120, 45, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 45, 244) }
```

Border

The CSS property to change the border of an element to Yxy 12.4015, 0.2016, 0.0999 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(120, 45, 244) }
```

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

```
.border{ border-color:rgb(120, 45, 244) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 45, 244)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 45, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 45, 244);  
box-shadow:4px 4px 4px 4px rgb(120, 45,  
244) }
```


Background

The CSS property to change the background color of an element to Yxy 12.4015, 0.2016, 0.0999 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 45, 244) }
```

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

```
.background{ background-color: rgb(120, 45,  
244) }
```

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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