

Converting Colors

$Y_{xy}(20.2016, 0.1916, 0.1003)$

Have a look what the booklet for
Yxy(20.2016, 0.1916, 0.1003)
contains.

Yxy(16.7603, 0.2091, 0.1173)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(16.7603, 0.2091, 0.1173)

Conversions

Conversions Part 1

Format	Color
Hex	8448FF
RGB	132, 72, 255
RGB Percent	52%, 28%, 100%
CMY	0.4824, 0.7175, 0.0001
CMYK	0.48, 0.72, 0.00, 0.00
HSL	260°, 100%, 64%
HSV	260°, 72%, 100%
XYZ	29.8771, 16.7603, 96.2467
YIQ	110.8020, -22.9830, 69.6330

Conversions

Conversions Part 2

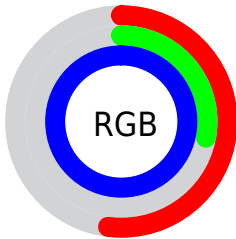
Format	Color
R_{YB}	132, 72, 255
Decimal	8669439
CIE _{Lab}	47.96, 64.29, -81.67
CIE _{LCh}	48, 103.942, 308.209
Yxy	16.7603, 0.2091, 0.1173
Android (android.graphics.Color)	4286859519 (0xFF8448FF)
YUV	110.8020, 71.0896, 18.5906
Hunter-Lab	40.9393, 58.6234, -110.7308

Details

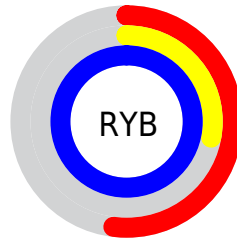
The Yxy color **16.7603, 0.2091, 0.1173** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **83.5773, 0.3665, 0.5154**, and the grayscale version is **15.6343, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.3566, 0.2653, 0.1858**, and **5.4524, 0.1751, 0.0767** is the 20% darker color. If you saturate the color by 10%, you get **12.8481, 0.1938, 0.0954**, and if you desaturate by 10%, it is **22.2663, 0.2257, 0.1445**.

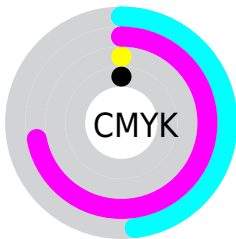
Distribution



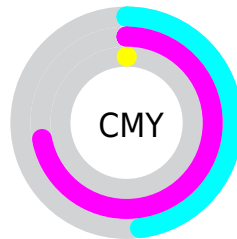
- Red (52%)
- Green (28%)
- Blue (100%)



- Red (52%)
- Yellow (28%)
- Blue (100%)



- Cyan (48%)
- Magenta (72%)
- Yellow (0%)
- Black (0%)




- Cyan (48%)
- Magenta (72%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 16.7603, 0.2091, 0.1173 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 16.7603, 0.2091, 0.1173 by changing the saturation by 10% instead.

 16.7603, 0.2091,
0.1173


 16.7603, 0.2091,
0.1173


233.7872, 0.2675,
0.2133


 10.0637, 0.1940,
0.0982

 37.9132, 0.2310,
0.1488


 5.4412, 0.1750,
0.0766


 53.1383, 0.2391,
0.1617


 2.5084, 0.1508,
0.0532


 71.9751, 0.2459,
0.1730

 0.8808, 0.1201,
0.0296

 94.8078, 0.2516,
0.1830

 0.0000, 0.0835,
0.0000

 122.0211, 0.2565,
0.1919

 0.0000, 0.0310,
0.0000

153.9991, 0.2607,

 0.0000, 0.0000,

0.1998

0.0000

191.1264, 0.2643,
0.2069

■ 16.7603, 0.2091,
0.1173

■ 16.7603, 0.2091,
0.1173

■ 12.8481, 0.1938,
0.0954

■ 22.2663, 0.2257,
0.1445

■ 10.3358, 0.1808,
0.0801


■ 29.5256, 0.2427,
0.1752

■ 9.0829, 0.1720,
0.0721

■ 38.6790, 0.2592,
0.2074

■ 49.8524, 0.2745,
0.2394

■ 63.1604, 0.2883,
0.2702

 78.7093, 0.3005,
0.2987

 96.5977, 0.3110,
0.3247

99.9984, 0.3127,
0.3290

Harmonies

Analogous

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



16.7603, 0.1115, 0.1002



16.7603, 0.2091, 0.1173



16.7603, 0.3887, 0.1662

Triad

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



16.7603, 0.2091, 0.1173



16.7603, 0.5847, 0.4153



16.7603, 0.0829, 0.3541

Complementary

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



16.7603, 0.2091, 0.1173



83.5773, 0.3665, 0.5154

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.



16.7603, 0.1672, 0.6410



16.7603, 0.2091, 0.1173



16.7603, 0.4460, 0.5540

Square

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



16.7603, 0.2091, 0.1173



16.7603, 0.6574, 0.3175



16.7603, 0.2991, 0.6980



16.7603, 0.0586, 0.1770

Rectangle

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



16.7603, 0.2091, 0.1173



16.7603, 0.5314, 0.2142



16.7603, 0.2991, 0.6980



16.7603, 0.1033, 0.4494

Sweetspot

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



16.7608, 0.2091, 0.1173



62.8162, 0.2880, 0.2694



48.5487, 0.2130, 0.2541



12.6294, 0.2844, 0.2613



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.



16.7608, 0.2091, 0.1173



11.6247, 0.1879, 0.0881



27.2972, 0.2878, 0.1561



17.6668, 0.3030, 0.3048



4.8187, 0.1735, 0.0730



0.5256, 0.1856, 0.0796

Inverse Universe

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



29.8347, 0.3875, 0.2165



25.9281, 0.4081, 0.2098



75.0101, 0.3144, 0.5508



18.1932, 0.3189, 0.3131



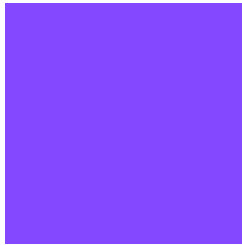
12.6825, 0.4255, 0.2118



1.2550, 0.4105, 0.2035

Previews

White Background



This preview shows how the Yxy color 16.7603, 0.2091, 0.1173 looks on a white background.

Color Contrast Check

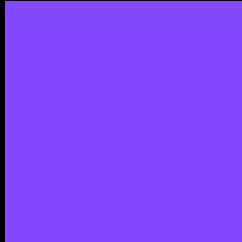
Large Text (above 18pt) WCAG AA ✓ Pass

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 16.7603, 0.2091, 0.1173 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

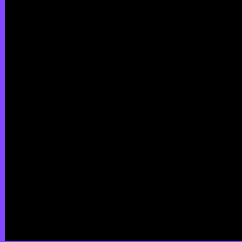
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 16.7603, 0.2091, 0.1173

Background



This preview shows how black text looks on a background with the Yxy color 16.7603, 0.2091, 0.1173.



This preview shows how white text looks on a background with the Yxy color 16.7603, 0.2091, 0.1173.

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

16.7603, 0.2091, 0.1173

Protanopia

16.7068, 0.1739, 0.1461

Deuteranopia

16.6143, 0.1849, 0.1856



Tritanopia

16.5385, 0.2786, 0.3084

Trichromacy



Original Color

16.7603, 0.2091, 0.1173



Protanomaly

15.2854, 0.1751, 0.1266



Deuteranomaly

14.8572, 0.1814, 0.1452



Tritanomaly

15.4465, 0.2454, 0.2045

Monochromacy



Original Color

16.7603, 0.2091, 0.1173



Achromatopsia

15.8961, 0.3127, 0.3290



Achromatomaly

15.1157, 0.2634, 0.2153

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.7603, 0.2091, 0.1173 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(132, 72, 255)` looks like.

```
.text, #text, p{  
    color:rgb(132, 72, 255)  
}
```

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(132, 72, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 72, 255) }
```

Border

The CSS property to change the border of an element to Yxy 16.7603, 0.2091, 0.1173 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(132, 72, 255) }
```

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

```
.border{ border-color:rgb(132, 72, 255) }
```

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

Here you see how a box with a 4 pixel rgb(132, 72, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 72, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 72, 255);  
box-shadow:4px 4px 4px 4px rgb(132, 72,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 16.7603, 0.2091, 0.1173 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 72, 255) }
```

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

```
.background{ background-color: rgb(132, 72,  
255) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor