

Converting Colors

$Y_{xy}(18.2821, 0.2428, 0.1209)$

Have a look what the booklet for
Yxy(18.2821, 0.2428, 0.1209)
contains.

Yxy(18.2880, 0.2428, 0.1210)	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(18.2880, 0.2428, 0.1210)

Conversions

Conversions Part 1

Format	Color
Hex	AF2EFF
RGB	175, 46, 255
RGB Percent	69%, 18%, 100%
CMY	0.3138, 0.8193, 0.0002
CMYK	0.31, 0.82, 0.00, 0.00
HSL	277°, 100%, 59%
HSV	277°, 82%, 100%
XYZ	36.6969, 18.2880, 96.1556
YIQ	108.3970, 9.7950, 92.3470

Conversions

Conversions Part 2

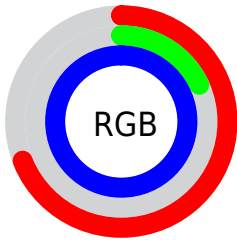
Format	Color
R_{YB}	175, 46, 255
Decimal	11480831
CIE _{Lab}	49.84, 80.27, -78.36
CIE _{LCh}	50, 112.179, 315.692
Yxy	18.2880, 0.2428, 0.1210
Android (android.graphics.Color)	4289670911 (0xFFAF2EFF)
YUV	108.3970, 72.2753, 58.4108
Hunter-Lab	42.7645, 78.3360, -103.3780

Details

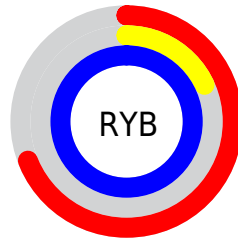
The Yxy color **18.2880, 0.2428, 0.1210** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **76.1189, 0.3300, 0.5602**, and the grayscale version is **14.9138, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.9901, 0.3017, 0.1869**, and **7.6086, 0.2181, 0.0975** is the 20% darker color. If you saturate the color by 10%, you get **15.7615, 0.2328, 0.1084**, and if you desaturate by 10%, it is **22.0779, 0.2532, 0.1388**.

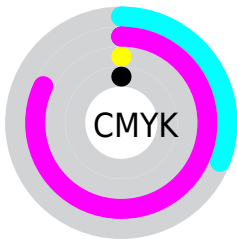
Distribution



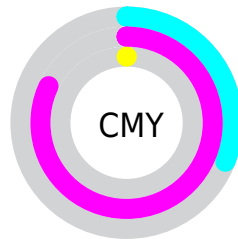
- Red (69%)
- Green (18%)
- Blue (100%)



- Red (69%)
- Yellow (18%)
- Blue (100%)



- Cyan (31%)
- Magenta (82%)
- Yellow (0%)
- Black (0%)





- Cyan (31%)
- Magenta (82%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 18.2880, 0.2428, 0.1210 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 18.2880, 0.2428, 0.1210 by changing the saturation by 10% instead.


 18.2880, 0.2428,
0.1210


 18.2880, 0.2428,
0.1210


242.4894, 0.2850,
0.2137


 11.1570, 0.2311,
0.1025


 40.5275, 0.2592,
0.1513


 6.1725, 0.2159,
0.0817


 56.4047, 0.2651,
0.1637


 2.9503, 0.1958,
0.0587


 75.9660, 0.2700,
0.1747

 1.1058, 0.1687,
0.0348

 99.5960, 0.2740,
0.1843

 0.0000, 0.1344,
0.0000

 127.6789, 0.2774,
0.1929

 0.0000, 0.0866,
0.0000

160.5992, 0.2803,

 0.0000, 0.0000,

0.2006

0.0000

198.7412, 0.2828,
0.2075

■ 18.2880, 0.2428,
0.1210

■ 18.2880, 0.2428,
0.1210

■ 15.7615, 0.2328,
0.1084

■ 22.0779, 0.2532,
0.1388

■ 14.4206, 0.2253,
0.1015

■ 27.3129, 0.2637,
0.1611

■ 34.1462, 0.2739,
0.1869

■ 42.7102, 0.2834,
0.2147

■ 53.1235, 0.2920,
0.2433

65.4938, 0.2996,
0.2716

79.9202, 0.3062,
0.2988

96.4953, 0.3118,
0.3243

99.9964, 0.3127,
0.3291

Harmonies

Analogous

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



18.2880, 0.1242, 0.0963



18.2880, 0.2428, 0.1210



18.2880, 0.4481, 0.1782

Triad

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



18.2880, 0.2428, 0.1210



18.2880, 0.5570, 0.4430



18.2880, 0.0656, 0.2905

Complementary

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



18.2880, 0.2428, 0.1210



76.1189, 0.3300, 0.5602

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.



18.2880, 0.1318, 0.5906



18.2880, 0.2428, 0.1210



18.2880, 0.4037, 0.5963

Square

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



18.2880, 0.2428, 0.1210



18.2880, 0.6591, 0.3337



18.2880, 0.2541, 0.7249



18.2880, 0.0532, 0.1475

Rectangle

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



18.2880, 0.2428, 0.1210



18.2880, 0.5883, 0.2288



18.2880, 0.2541, 0.7249



18.2880, 0.0800, 0.3768

Sweetspot

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



18.2886, 0.2428, 0.1210



61.5129, 0.2974, 0.2630



22.7554, 0.1813, 0.1548



12.2332, 0.2947, 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.



18.2886, 0.2428, 0.1210



14.7370, 0.2272, 0.1031



28.9541, 0.3461, 0.1772



17.9329, 0.3076, 0.3051



7.6273, 0.2268, 0.1023



0.8055, 0.2374, 0.1081

Inverse Universe

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



24.7154, 0.4955, 0.2664



22.3055, 0.5441, 0.2781



72.5142, 0.2960, 0.5649



18.1021, 0.3234, 0.3199



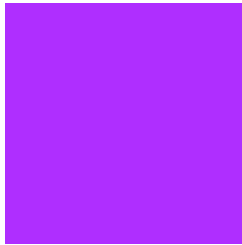
11.5926, 0.5454, 0.2778



1.1493, 0.5147, 0.2609

Previews

White Background



This preview shows how the Yxy color 18.2880, 0.2428, 0.1210 looks on a white background.

Color Contrast Check

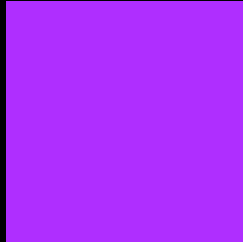
Large Text (above 18pt) WCAG AA ✓ Pass

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 18.2880, 0.2428, 0.1210 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

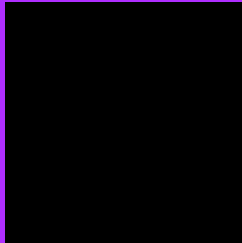
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 18.2880, 0.2428, 0.1210

Background



This preview shows how black text looks on a background with the Yxy color 18.2880, 0.2428, 0.1210.



This preview shows how white text looks on a background with the Yxy color 18.2880, 0.2428, 0.1210.

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

18.2880, 0.2428, 0.1210

Protanopia

18.6123, 0.1743, 0.1474

Deuteranopia

18.3279, 0.1841, 0.1827



Tritanopia

18.0299, 0.3625, 0.3138

Trichromacy



Original Color

18.2880, 0.2428, 0.1210



Protanomaly

15.0561, 0.1773, 0.1191



Deuteranomaly

14.5864, 0.1835, 0.1349



Tritanomaly

16.4647, 0.3091, 0.2090

Monochromacy



Original Color

18.2880, 0.2428, 0.1210



Achromatopsia

14.9960, 0.3127, 0.3290



Achromatomaly

13.9757, 0.2799, 0.2038

CSS Examples

Text

The CSS property to change the color of the text to Yxy 18.2880, 0.2428, 0.1210 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(175, 46, 255)` looks like.

```
.text, #text, p{  
    color:rgb(175, 46, 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(175, 46, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 46, 255) }
```

Border

The CSS property to change the border of an element to Yxy 18.2880, 0.2428, 0.1210 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(175, 46, 255) }
```

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

```
.border{ border-color:rgb(175, 46, 255) }
```

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

Here you see how a box with a 4 pixel rgb(175, 46, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 46, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 46, 255);  
box-shadow:4px 4px 4px 4px rgb(175, 46,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 18.2880, 0.2428, 0.1210 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 46, 255) }
```

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

```
.background{ background-color: rgb(175, 46,  
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