

# Converting Colors

$Y_{xy}(30.1814, 0.2457, 0.1773)$

Have a look what the booklet for  
Yxy(30.1814, 0.2457, 0.1773)  
contains.

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**Color**

**Yxy(30.1814, 0.2457, 0.1773)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA7CFF
RGB	170, 124, 255
RGB Percent	67%, 49%, 100%
CMY	0.3335, 0.5136, 0.0000
CMYK	0.33, 0.51, 0.00, 0.00
HSL	261°, 100%, 74%
HSV	261°, 51%, 100%
XYZ	41.8250, 30.1814, 98.2215
YIQ	152.6880, -14.6350, 50.4930

# Conversions

## Conversions Part 2

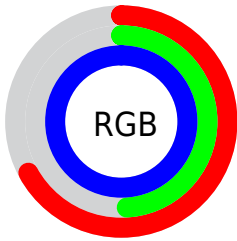
Format	Color
<a href="#">RYB</a>	<a href="#">170, 124, 255</a>
Decimal	<a href="#">11173119</a>
CIELab	<a href="#">61.81, 44.92, -59.09</a>
CIELCh	<a href="#">62, 74.225, 307.241</a>
Yxy	<a href="#">30.1814, 0.2457, 0.1773</a>
Android (android.graphics.Color)	<a href="#">4289363199</a> ( <a href="#">0xFFAA7CFF</a> )
YUV	<a href="#">152.6880, 50.4398, 15.1826</a>
Hunter-Lab	<a href="#">54.9376, 39.7545, -67.5467</a>

# Details

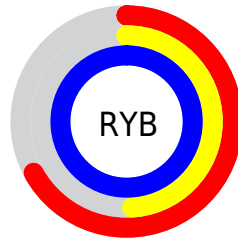
The Yxy color **30.1814, 0.2457, 0.1773** is a light color, and the websafe version is hex **9966FF**. A complement of this color would be **86.5371, 0.3560, 0.4689**, and the grayscale version is **31.4947, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.5548, 0.2953, 0.2487**, and **12.3070, 0.2247, 0.1435** is the 20% darker color. If you saturate the color by 10%, you get **22.8647, 0.2292, 0.1469**, and if you desaturate by 10%, it is **39.3849, 0.2616, 0.2092**.

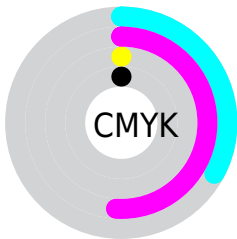
# Distribution



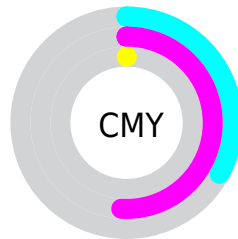
- Red (67%)
- Green (49%)
- Blue (100%)



- Red (67%)
- Yellow (49%)
- Blue (100%)



- Cyan (33%)
- Magenta (51%)
- Yellow (0%)
- Black (0%)




- Cyan (33%)
- Magenta (51%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.1814, 0.2457, 0.1773 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 30.1814, 0.2457, 0.1773 by changing the saturation by 10% instead.




 30.1814, 0.2457,  
0.1773


 30.1814, 0.2457,  
0.1773


302.7491, 0.2819,  
0.2475


 19.9763, 0.2364,  
0.1620


 59.9489, 0.2592,  
0.2012

 12.3778, 0.2244,  
0.1436


 80.2802, 0.2641,  
0.2107

 7.0015, 0.2087,  
0.1215

 104.7556, 0.2683,  
0.2189

 3.4631, 0.1876,  
0.0951

133.7596, 0.2719,  
0.2261

 1.3780, 0.1585,  
0.0642

167.6765, 0.2749,  
0.2324

 0.2004, 0.1199,  
0.0175

206.8908, 0.2775,


 0.0000, 0.0432,


0.2380

0.0000


251.7869, 0.2798,  
0.2430

 0.0000, 0.0000,  
0.0000

 30.1814, 0.2457,  
0.1773

 30.1814, 0.2457,  
0.1773

 22.8647, 0.2292,  
0.1469


 39.3849, 0.2616,  
0.2092


 17.2927, 0.2129,  
0.1198


 50.5962, 0.2764,  
0.2410

 13.3078, 0.1977,  
0.0979

 63.9299, 0.2897,  
0.2715

 10.7204, 0.1845,  
0.0824

 79.4910, 0.3014,  
0.2998

 9.3633, 0.1751,  
0.0738

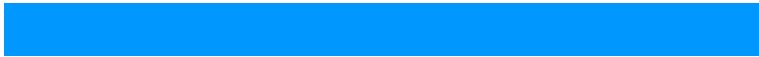
 97.3772, 0.3115,  
0.3257

99.9995, 0.3127,  
0.3290

# Harmonies

## Analogous

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



30.1814, 0.1698, 0.1645



30.1814, 0.2457, 0.1773



30.1814, 0.3601, 0.2170

# Triad

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



30.1814, 0.2457, 0.1773



30.1814, 0.5188, 0.4266



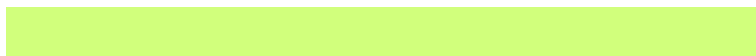
30.1814, 0.1623, 0.3591

# Complementary

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



30.1814, 0.2457, 0.1773



86.5371, 0.3560, 0.4689

# 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.



30.1814, 0.2387, 0.4980



30.1814, 0.2457, 0.1773



30.1814, 0.4425, 0.5068

# Square

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



30.1814, 0.2457, 0.1773



30.1814, 0.5394, 0.3488



30.1814, 0.3415, 0.5530



30.1814, 0.1290, 0.2427



# Rectangle

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



30.1814, 0.2457, 0.1773



30.1814, 0.4427, 0.2558



30.1814, 0.3415, 0.5530



30.1814, 0.1831, 0.4076

# Sweetspot

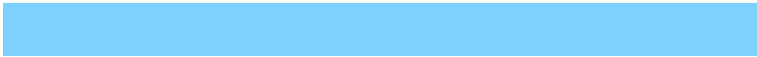
The Sweet Spot groups the original color and five complimentary colors.



30.1825, 0.2457, 0.1773



73.5666, 0.2973, 0.2898



57.1840, 0.2349, 0.2730



15.0411, 0.2949, 0.2838



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.



30.1825, 0.2457, 0.1773



22.4584, 0.2281, 0.1450



39.3638, 0.3011, 0.1988



17.6874, 0.3034, 0.3048



4.9678, 0.1767, 0.0747



0.5419, 0.1890, 0.0815



# Inverse Universe

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



40.2885, 0.3629, 0.2438



33.9409, 0.3781, 0.2296



78.8708, 0.3151, 0.4889



18.1858, 0.3192, 0.3137



12.5690, 0.4345, 0.2167

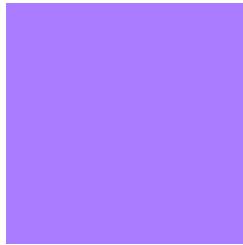


1.2445, 0.4181, 0.2077



# Previews

## White Background



This preview shows how the Yxy color 30.1814, 0.2457, 0.1773 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

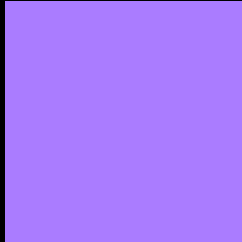
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.1814, 0.2457, 0.1773 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

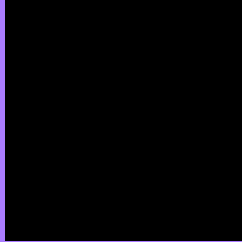
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.1814, 0.2457, 0.1773**

## **Background**



This preview shows how black text looks on a background with the Yxy color 30.1814, 0.2457, 0.1773.



This preview shows how white text looks on a background with the Yxy color 30.1814, 0.2457, 0.1773.

# 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

30.1814, 0.2457, 0.1773

### Protanopia

30.5445, 0.2068, 0.1874

### Deuteranopia

30.4461, 0.2021, 0.1955



## Tritanopia

30.1670, 0.3044, 0.3121

# Trichromacy



**Original Color**

30.1814, 0.2457, 0.1773

**Protanomaly**

29.8326, 0.2179, 0.1818

**Deuteranomaly**

29.5922, 0.2135, 0.1865

**Tritanomaly**

29.5284, 0.2800, 0.2515

# Monochromacy



**Original Color**

30.1814, 0.2457, 0.1773

**Achromatopsia**

31.8547, 0.3127, 0.3290

**Achromatomaly**

30.4346, 0.2855, 0.2612

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.1814, 0.2457, 0.1773 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(170, 124, 255)` looks like.

```
.text, #text, p{  
    color:rgb(170, 124, 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(170, 124, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 124, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 30.1814, 0.2457, 0.1773 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(170, 124, 255) }
```

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

```
.border{ border-color:rgb(170, 124, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 124, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 124, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 124, 255);  
box-shadow:4px 4px 4px 4px rgb(170, 124,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.1814, 0.2457, 0.1773 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 124, 255) }
```

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

```
.background{ background-color: rgb(170,  
124, 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](#).

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