

# Converting Colors

$Y_{xy}(14.8051, 0.2133, 0.1350)$

Have a look what the booklet for  
Yxy(14.8051, 0.2133, 0.1350)  
contains.

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# Color

**Yxy(14.7780, 0.2134, 0.1348)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7450DF
RGB	116, 80, 223
RGB Percent	45%, 31%, 87%
CMY	0.5451, 0.6863, 0.1254
CMYK	0.48, 0.64, 0.00, 0.13
HSL	255°, 69%, 59%
HSV	255°, 64%, 87%
XYZ	23.3948, 14.7780, 71.4562
YIQ	107.0660, -24.4470, 52.1050

# Conversions

## Conversions Part 2

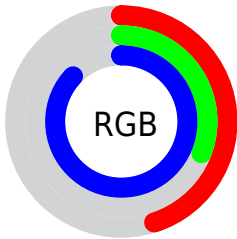
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	116, 80, 223
Decimal	7622879
CIE Lab	45.33, 49.00, -68.06
CIE LCh	45, 83.869, 305.752
Yxy	14.7780, 0.2134, 0.1348
Android (android.graphics.Color)	4285812959 (0xFF7450DF)
YUV	107.0660, 57.1555, 7.8351
Hunter-Lab	38.4422, 41.3564, -83.2986

# Details

The Yxy color **14.7780, 0.2134, 0.1348** is a dark color, and the websafe version is hex **9966FF**. The color can be described as middle muted purple. A complement of this color would be **63.9391, 0.3728, 0.4931**, and the grayscale version is **14.5655, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.5666, 0.2506, 0.1861**, and **4.5269, 0.1772, 0.0898** is the 20% darker color. If you saturate the color by 10%, you get **10.9946, 0.1963, 0.1079**, and if you desaturate by 10%, it is **19.8510, 0.2315, 0.1657**.

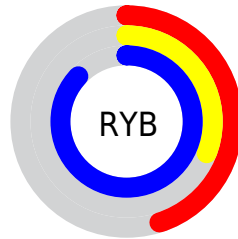
# Distribution



Red (45%)

Green (31%)

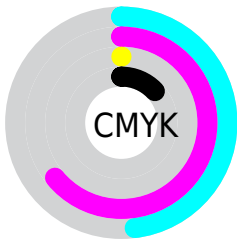
Blue (87%)



Red (45%)

Yellow (31%)

Blue (87%)

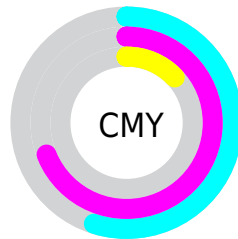


Cyan (48%)

Magenta (64%)

Yellow (0%)

Black (13%)



Cyan (55%)

Magenta (69%)


Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 14.7780, 0.2134, 0.1348 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 14.7780, 0.2134, 0.1348 by changing the saturation by 10% instead.





 14.7780, 0.2134,  
0.1348


 14.7780, 0.2134,  
0.1348


222.0186, 0.2707,  
0.2292


 8.6637, 0.1977,  
0.1141


 34.4633, 0.2355,  
0.1673


 4.5225, 0.1774,  
0.0900


 48.8030, 0.2435,  
0.1802

 1.9699, 0.1506,  
0.0626

 66.6534, 0.2501,  
0.1912

 0.5899, 0.1157,  
0.0321

 88.3988, 0.2556,  
0.2009

 0.0000, 0.0715,  
0.0000

 114.4237, 0.2602,  
0.2093

 0.0000, 0.0000,  
0.0000

145.1123, 0.2642,

0.2167

180.8491, 0.2677,  
0.2233

■ 14.7780, 0.2134,  
0.1348

■ 14.7780, 0.2134,  
0.1348

■ 10.9946, 0.1963,  
0.1079

■ 19.8510, 0.2315,  
0.1657

■ 8.3766, 0.1813,  
0.0869

■ 26.3194, 0.2495,  
0.1985

■ 6.7760, 0.1693,  
0.0730

■ 34.2790, 0.2665,  
0.2314

■ 6.1753, 0.1638,  
0.0676

■ 43.8170, 0.2821,  
0.2629

■ 55.0135, 0.2960,  
0.2922

67.9431, 0.3082,  
0.3188

82.6761, 0.3187,  
0.3426

97.0819, 0.3280,  
0.3605

98.1096, 0.3315,  
0.3601

# Harmonies

## Analogous

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



14.7780, 0.1261, 0.1208



14.7780, 0.2134, 0.1348



14.7780, 0.3654, 0.1794

# Triad

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



14.7780, 0.2134, 0.1348



14.7780, 0.5766, 0.4201



14.7780, 0.1139, 0.3739

# Complementary

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



14.7780, 0.2134, 0.1348



63.9391, 0.3728, 0.4931

# 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.



14.7780, 0.2037, 0.5970



14.7780, 0.2134, 0.1348



14.7780, 0.4631, 0.5369

# Square

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



14.7780, 0.2134, 0.1348



14.7780, 0.6180, 0.3270



14.7780, 0.3290, 0.6404



14.7780, 0.0810, 0.2083



# Rectangle

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



14.7780, 0.2134, 0.1348



14.7780, 0.4861, 0.2242



14.7780, 0.3290, 0.6404



14.7780, 0.1373, 0.4522

# Sweetspot

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



14.7784, 0.2134, 0.1348



66.6496, 0.2893, 0.2779



42.6909, 0.2246, 0.2783



13.3508, 0.2852, 0.2693



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.



14.7784, 0.2134, 0.1348



13.5065, 0.1908, 0.0999



21.6639, 0.2816, 0.1660



13.4092, 0.3020, 0.3050



3.6750, 0.1650, 0.0682



0.2968, 0.1807, 0.0769



# Inverse Universe

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



25.0168, 0.3616, 0.2140



28.7864, 0.3755, 0.2006



57.0690, 0.3217, 0.5243



13.8736, 0.3176, 0.3116



10.8803, 0.3966, 0.1959

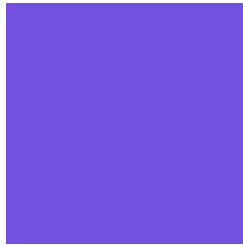


0.7683, 0.3824, 0.1880



# Previews

## White Background



This preview shows how the Yxy color 14.7780, 0.2134, 0.1348 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

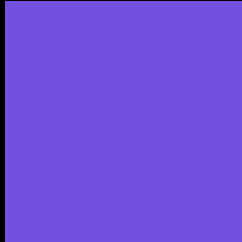
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 14.7780, 0.2134, 0.1348 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

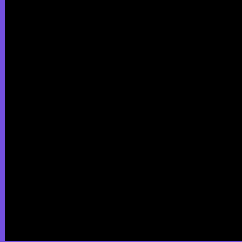
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 14.7780, 0.2134, 0.1348**

## **Background**



This preview shows how black text looks on a background with the Yxy color 14.7780, 0.2134, 0.1348.



This preview shows how white text looks on a background with the Yxy color 14.7780, 0.2134, 0.1348.

# 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

14.7780, 0.2134, 0.1348

### Protanopia

14.8150, 0.1739, 0.1461

### Deuteranopia

14.8696, 0.1846, 0.1846



## Tritanopia

14.7512, 0.2727, 0.3093

# Trichromacy



## Original Color

14.7780, 0.2134, 0.1348



## Protanomaly

13.8440, 0.1774, 0.1367



## Deuteranomaly

13.6802, 0.1839, 0.1565



## Tritanomaly

14.1453, 0.2464, 0.2223

# Monochromacy



## Original Color

14.7780, 0.2134, 0.1348



## Achromatopsia

14.7027, 0.3127, 0.3290



## Achromatomaly

14.0343, 0.2668, 0.2321

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 14.7780, 0.2134, 0.1348 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(116, 80, 223)` looks like.

```
.text, #text, p{  
    color:rgb(116, 80, 223)  
}
```

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(116, 80, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 80, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 14.7780, 0.2134, 0.1348 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(116, 80, 223) }
```

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

```
.border{ border-color:rgb(116, 80, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 80, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 80, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 80, 223);  
box-shadow:4px 4px 4px 4px rgb(116, 80,  
223) }
```



# Background

The CSS property to change the background color of an element to Yxy 14.7780, 0.2134, 0.1348 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 80, 223) }
```

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

```
.background{ background-color: rgb(116, 80,  
223) }
```

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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